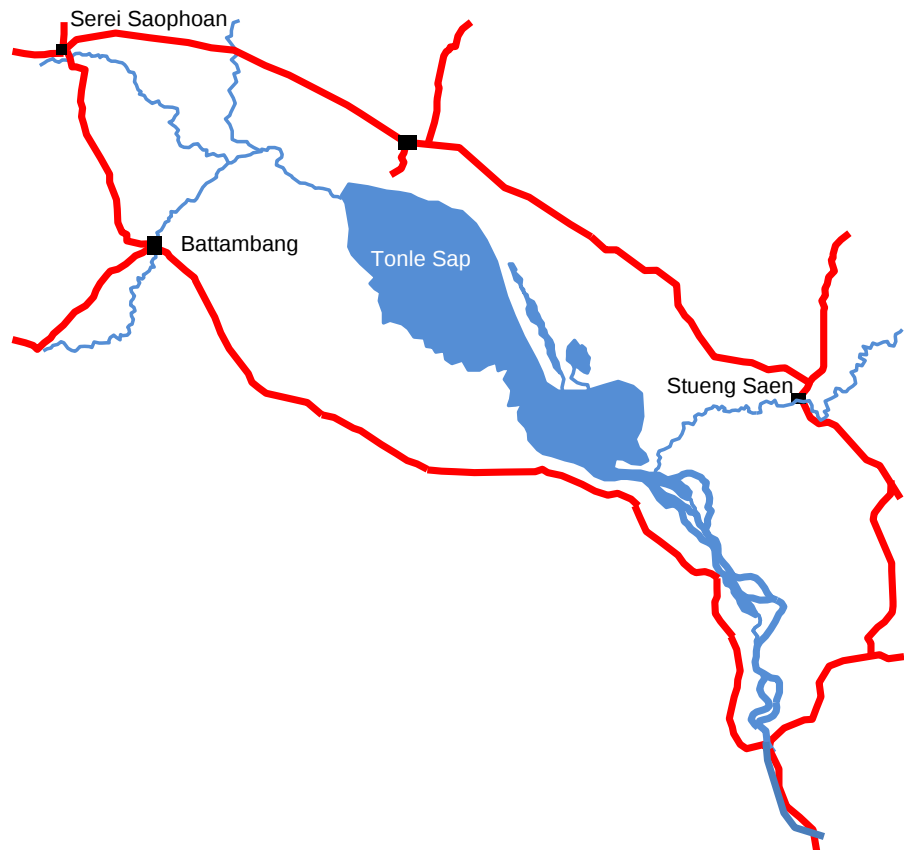




Ministry of Public Works and Transport
The Kingdom of Cambodia

**Second Urban Environmental
Management in the Tonle Sap Basin
Project**
ADB L3684/G0591 CAM



Quarterly Report
Quarter 2, 2022
April to June



Document Control Sheet

Component				
Type of Document		Quarterly report		
Description				
Version	Prepared by	Date	Checked by	Date
v0	René van Doorn	22/07/2022	Pau Prat Busquets	22/07/2022

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Abbreviations

ADB	Asian Development Bank
CBO	Community-Based Organization
COI	Corridor-of-Impact
CPP	Community Procurement Procedures
CPS	Country Partnership Strategy
CSO	Civil Society Organizations
DC	Development Committee
DDR	Due Diligence Report
DRP	Detailed Resettlement Plan
DRM	Disaster Risk Management
EA	Executing Agency
EMP	Environmental Management Plan
FGD	Focus Group Discussion
GAP	Gender Action Plan
GDR	General Department of Resettlement (MEF)
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IA	Implementing Agency
IEE	Initial Environmental Examination
IP(s)	Indigenous People(s)
IR	involuntary resettlement (IR)
MEF	Ministry of Economics and Finance
NCB	National Competitive Bidding
NGO	Non-Government Organisation
PIB	Public Information Booklet / Brochure
PIU	Project Implementation Unit
PMC	Project Management Consultant Team
PMU	Project Management Unit
ROW	Right of Way
SWM	Solid Waste Management
TA	Technical Assistance
TNA	Training Needs Assessment
TOR	Terms of Reference
USD	United States Dollar

1 Introduction and Basic Data

1.1 Introduction

- 1 The Government of The Royal Government of Cambodia has obtained a loan and grant from the Asian Development Bank (ADB) towards the cost of the Second Integrated Urban Environmental Management in the Tonle Sap Basin Project (hereinafter referred to as TS2). The location of the project towns is shown in Figure 1.1.
- 2 This is the Quarterly Report for Quarter 2, 2022 (April 1 to June 30).

Figure 1.1 Location of Project Towns



1.2 Basic Data

- 3 The key data for the project are shown in Table 1.1 below.

Table 1.1 Basic Data – TS2

ADB Project number:	Loan 3684, Grant G0591
Project Title:	Second Integrated Urban Environmental Management in the Tonle Sap Basin Project
Borrower/Beneficiary:	Kingdom of Cambodia
Executing Agency:	Ministry of Public Works and Transport
Implementing Agency:	Provincial Governments of Battambang, Serei Saophoan, Stueng Saen
Date of Effectiveness:	14 December 2018
Closing Date:	30 June 2024
Date of Last ADB Mission:	7 – 14 June 2022

1.3 Cost Estimates and Financing Plans

1.3.1 TS2 Cost Estimates and Financing Plan

- 4 The total cost of the project is estimated at US\$97.7m including contingencies. The breakdown of cost estimates is given in Table 1.2.

Table 1.2 TS2 Summary Cost Estimates by Output (\$ million).

Item	Amount
A. Base Cost	
1. Urban environmental infrastructure improved	78.00
2. Institutional effectiveness improved	6.12
3. Policy and planning environment improved	1.10
Sub-Total (A)	85.22
B. Contingencies	10.02
C. Financial Charges During Implementation	2.46
Total (A+B+C)	97.70

Source: Asian Development Bank estimates.

- 5 The summary of the financing plan for TS2 is shown in Table 1.3.

Table 1.3 TS2 Financing Plan

Source	Amount (\$ million)	Share of Total (%)
Asian Development Bank		
Ordinary capital resources (concessional loan)	87.73	89.8
Special Funds resources (ADF grant)	1.27	1.3
Government	8.70	8.9
Total	97.70	100.0

Source: Asian Development Bank estimates.

2 Utilisation of Funds

2.1 Contract Awards and Disbursements

- 6 A summary of the total cumulative contract awards and disbursements is shown in Table 2.1. As of 30th of June 2022, the contract awards amount to a total of **\$77,914,783** and to date disbursements total **\$29,980,676**.

Table 2.1 Summary Contract Awards and Disbursement (US\$)

As of 30 June 2022

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 3684	87,730,000	70,572,940	17,157,060	26,645,125	61,084,875	43,927,814
Grant 0591	1,270,000	1,270,000	-	1,270,000	-	-
Government	8,700,000	6,071,843	2,628,157	2,003,836	4,068,007	2,628,157
Total	97,700,000	77,914,783	19,785,217	29,918,962	65,152,882	46,555,971

Table 2.2 Consolidated Awards and Disbursements, Loan 3684-CAM and Grant 0591-CAM

Fund	Allocation	Contracts Awarded	Uncontracted Loan/Grant Balance	Contracts Disbursed	Undisbursed Loan/Grant Balance	Undisbursed Contract Balance	Contracts Awarded %	Contracts Disbursed %
	A	B	C = A-B	D	E = A-D	F = B-D	B/A	D/A
CIVIL WORKS (SEE SF#5)	67,740,000	65,668,912	2,071,088	24,022,299	43,717,701	41,646,613	97%	35%
GOODS AND EQUIPMENT	2,370,000	161,400	2,208,600	161,400	2,208,600	-	7%	7%
CONSULTING SERVICES	5,660,000	5,736,773	(76,773)	3,187,646	2,472,354	2,549,127	101%	56%
INCRE. ADM. COST	750,000	275,855	474,145	166,124	583,876	109,731	37%	22%
INTEREST CHARGE	2,460,000	-	2,460,000	124,656	2,335,344	-	0%	5%
UNALLOCATED	10,020,000	-	10,020,000	-	10,020,000	-	0%	0%
ADVANCE ACCOUNT			-	253,000	(253,000)	-		
			-		-	-		
Total	89,000,000	71,842,940	17,157,060	27,915,125	61,084,875	44,305,470	81%	31%

Table 2.3 Awards and Disbursements Status, Loan 3684

Fund	Allocation	Contracts Awarded	Uncontracted Loan/Grant Balance	Contracts Disbursed	Undisbursed Loan/Grant Balance	Undisbursed Contract Balance
	A	B	C = A-B	D	E = A-D	F = B-D
CIVIL WORKS (SEE SF#5)	66,470,000	64,398,912	2,071,088	22,752,299	43,717,701	41,646,613
GOODS AND EQUIPMENT	2,370,000	161,400	2,208,600	161,400	2,208,600	-
CONSULTING SERVICES	5,660,000	5,736,773	(76,773)	3,187,646	2,472,354	2,549,127
INCRE. ADM. COST	750,000	275,855	474,145	166,124	583,876	109,731
INTEREST CHARGE	2,460,000	-	2,460,000	124,656	2,335,344	-
UNALLOCATED	10,020,000	-	10,020,000	-	10,020,000	-
ADVANCE ACCOUNT	-	-	-	253,000	(253,000)	-
Total	87,730,000	70,572,940	17,157,060	26,645,125	61,084,875	44,305,470

Table 2.4 Awards and Disbursements Status, Grant 0591

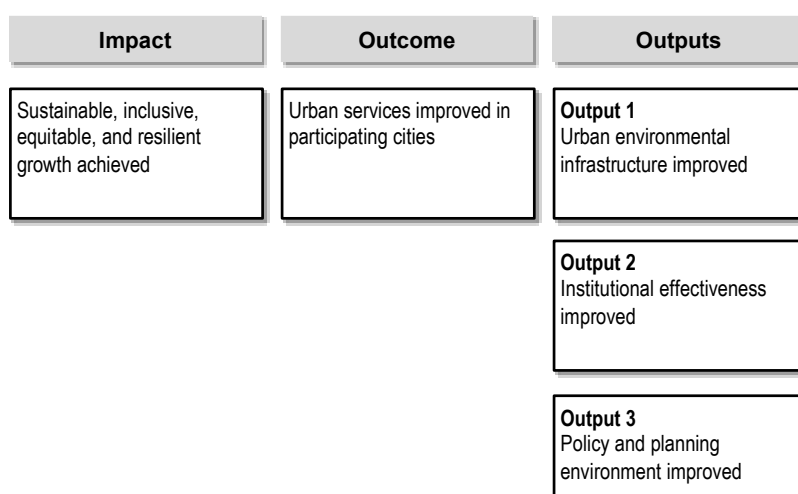
Fund	Allocation	Contracts Awarded	Uncontracted Loan/Grant Balance	Contracts Disbursed	Undisbursed Loan/Grant Balance	Undisbursed Contract Balance
	A	B	C = A-B	D	E = A-D	F = B-D
Works	1,270,000	1,270,000	-	1,270,000	-	-
Total	1,270,000	1,270,000	-	1,270,000	-	-

3 Project Scope and Purpose

3.1 Project Impact, Outcome and Outputs

- 7 The TS2 project will improve urban environmental services in Battambang, Serei Saophoan and Stung Saen, three of Cambodia's provincial cities located around the Tonle Sap Lake. The project will also improve institutional effectiveness to provide sustainable services and support an improved policy and planning environment for wastewater and solid waste management.
- 8 The Design and Monitoring Framework (DMF) is included in Annex A. The key elements of the DMF are summarised in Figure 3.1 below.
- 9 Currently no major changes to the Project scope or arrangements are envisaged and the Project should meet its original purpose.

Figure 3.1 TS2 Impact, Outcome and Outputs



3.2 Sub-Projects

- 10 The sub-projects as proposed in the RRP are summarised in Table 3.1. Review and verification of the scope of each of the sub-projects is ongoing as part of the detailed design process.

Table 3.1 Proposed Civil Works Sub-Projects

Town	Sub-Projects	Scope of Sub-Projects
Battambang	Wastewater	▪ 8,500 m ³ /day WWTP, 109km sewers
	Solid waste management	▪ 313,900m ³ landfill*
Serei Saophoan	Wastewater & Drainage	▪ 3,500 m ³ /day WWTP, 110km sewers, 7km drains
	Solid waste management	▪ 140,000m ³ landfill*
Stueng Saen	Wastewater	▪ 3,500 m ³ /day WWTP, 54km sewers, 57km drains
	Solid waste management	▪ 97,900m ³ landfill*

Source: PPTA reports

* For first phase to 2030

3.3 Safeguards

3.3.1 Resettlement

- 11 The position regarding resettlement data/ documentation and the next steps are shown in Table 3.2. The overall status of resettlement safeguards is summarised in Table 3.3.
- 12 All detailed resettlement plans (DRPs) and due diligence reports (DDR) required for non-objections of site hand over and start of construction works have been completed for TS2. Compensation process for all subprojects is fully completed. However, SPH SWM subproject is being re-designed

- and is anticipated to cause additional land acquisition. Once the design is approved, DRP will be updated if required.
- 13 Social safeguards review and associated documentation has been conducted for all of the variation orders (VOs) processed so far for the on-going construction. Social audit for STS WWTP is on-going.
- 14 PMC has continued to provide technical support to contractors and PIUs. Details of resettlement and social safeguards construction implementation progress is given in PMU/PMC semi-annual social safeguards monitoring reports.

Table 3.2 Resettlement Documentation and Next Steps

Town	Sub-Projects	Pending data / documentation	Next steps in following quarter	Timeframe
Battambang	Wastewater	• None	• Consult market vendors prior to night-time construction at market area*	• 31/12/22
	Solid waste management	• None	• Construction completed and site handed over	• n/a
Serei Saophoan	Wastewater & Drainage	• None	• Follow up on start of construction of house at Pagoda land	• 30/09/22
			• Disclosure of information about scope reduction to AHs after VO for the issue approved	• 30/09/22
			• Provide temporary toilets for 3 AHs along railway*	• 31/12/22
			• Consult market vendors prior to night-time construction at market area*	• 31/12/22
	Solid waste management	• Update design	• DRP update pending approval of updated design	• n/a
Stueng Saen	Wastewater	• None	• Consultation with market vendors and monitoring temporary market relocation*	• 31/12/22
			• Review additional compensation payments by construction contractor for unanticipated impacts of DDR/CAP on VO2	• 30/08/22
			• social consultation for WWTP site on-going	• 30/08/22
	Solid waste management	• None	• None	• n/a

* Pending start of construction works at the specific areas in question

3.3.2 Environment

- 15 The overall status of environmental safeguards is summarised in Tables 3.4 and 3.5 and key activities of the PMC are summarized below.
- 16 PMC has undertaken an environmental review of Variation Order No. 4 for Stueng Saen Wastewater and Drainage subproject. The variation order includes COVID-19 measures, relocation of Pump Station No. 1, additional road and drainage works and adjustments to the Bill of Quantities (adjusting quantities, adding missing items). The environmental review concluded that the variations under VO4 are sufficiently covered under the existing IEE and EMP.

Table 3.3 Status of Resettlement Safeguards

TS-2	Subproject / IR category	Site Agreed	Land ownership	Cadastre data	Demarcation (PMC)	PIB	Pre-screening report	Land acquired (ha)	DED submitted to GDR	Consultation	DMS/SES & RCS	DRP / DDR	Comments
Battambang	Landfill / C	Yes	Private	Requested	Yes	Distributed	Submitted	21 ha	Yes, with adjusted COI for access road. VO1-3 processed	Apr-Jun.20	n/a	DDR approved Dec.20	Construction completed and handed over.
	Wastewater / B	Yes	Private	Yes	Yes	Update distributed in Nov 21	n/a	10 ha	Yes, including adjusted COI. VO1-2 processed	Apr-Jul.20	Apr-Jul.20	DRP approved Jul.20	Construction on-going. Consultation with market vendors to be done once construction moving to market areas.
Serei Saophoan	Landfill / B	Yes	Private	Requested	Yes	Distributed January 2021	Submitted	10 ha	DED update on-going (draft expected Apr.2022)	Nov-Dec.20	Nov-Dec.20	DRP approved Mar.21	Awaiting DED and bidding process. DRP update expected due to need to increase footprint of SWM site. Cease of activities at site required to avoid further expansion of the footprint. DDR for dumpsite remediation expected.
	Wastewater / B	Yes	Private	Requested	Yes	Update distributed in Aug 21	Submitted	24 ha	Yes, including adjusted COI and WWTP site				Construction on-going. Consultation with market vendors to be done once construction moving to market areas. VO1 expected for scope reduction. Pagoda land house to be constructed ASAP
Stung Saen	Landfill / C	Yes	Private	Yes	Yes	Update distributed in Nov 21	Submitted	20 ha	Yes, with adjusted COI for access road. VO1 processed	Mar.20	Mar.20	DDR approved Dec.20	Construction on-going.
	Wastewater / B	Yes	State 6 ha/Private 10 ha	Yes	Yes		Yes (14.3. 2019)	10 ha	Yes, with adjusted COI for access road. VO1-4 processed	11-12/2019 2-3/2020	Aug-Feb.20 / Mar.20	DRP approved Mar.20	Construction on-going. GDR conducted social audit (20 AH at WWTP site) and report is to be submitted to ADB. DDR for VO4 cleared after disclosure of scope reduction and consultations. VO2 additional payments to be completed.

Table 3.4 Status of IESIA Preparation TS2

Documents	Submitted to MoE	Approved By MoE:	Comments
IESIA CW01 Lot 1 – Stueng Saen: Wastewater and drainage	March 2020	May 2020	
IESIA CW01 Lot 2 – Battambang: Wastewater	March 2020	May 2020	
IESIA CW02 - Serei Saophoan: Wastewater and drainage	Final draft 31 Dec 20	11 February 2021	
IESIA CW03a – Serei Saophoan: Solid waste management	Final draft 31 Dec 20	02 March 2021	Due to design changes, MOE has been approached to confirm if the IESIA needs to be updated and MoE has requested the PMU to submit the redesign report to enable MoE to make a decision
IESIA CW03b – Stueng Saen: Solid waste	2 nd Final draft 02 February 2021	12 July 2021	
IESIA CW03c – Battambang: Solid waste	Final draft 31 Dec 20	10 February 2021	

Municipality	Sub-project	Preparing draft ToR and submit to MoE for review	Discussion meeting with MoE and revise the ToR	Approval from MoE for conducting field survey on Physical, Natural and Social Resources	Preparing draft IEIA report	Submit the draft IEIA to MPWT for comments	Revised the first draft IEIA and submit to MoE	MoE conducting field visit	Discussion meeting on the draft	Revised 1st draft base on comments from MoE	Submission 2nd draft for Inter-Ministry meeting	Inter-Ministry meeting on 2nd draft	Prepare final draft based on comments from Inter-Ministry meeting	Minutes preparation for approval report	Document preparation for issuing license
Battambang	Wastewater	July 2019	Aug 2019	Oct 2019	Nov 2019	Nov 2019	Nov 2019	Nov 2019	Dec 2019	Jan 2020	Jan 2020	Feb 2020	Mar 2020	April 2020	May-2020
	Landfill	April 2020	June 2020	July 2020	July 2020	July 2020	29 July 20	10 Aug 2020	Aug 2020	Sept 2020	28 Sept 2020	03 Dec 20	31 Dec 20	Jan 2021	10-Feb-2021
Serei Saophoan	Wastewater	April 2020	June 2020	July 2020	July 2020	July 2020	29 July 20	13 Aug 2020	Sept 2020	Sept 2020	16 Oct 2020	02 Dec 2020	31 Dec 20	Jan 2021	16-Feb-2021
	Landfill	June 2020	June 2020	July 2020	July 2020	July 2020	29 July 20	14 Aug 2020	Sept 2020	Sept 2020	16 Oct 2020	02 Dec 2020	31 Dec 20	Feb 2021	02-Mar-2021
Stueng Saen	Wastewater	July 2019	Aug 2019	Oct 2019	Nov 2019	Nov 2019	Nov 2019	Nov 2019	Dec 2019	Jan 2020	Jan 2020	Feb 2020	Mar 20	April 2020	May-2020
	Landfill	April 2020	June 2020	July 2020	July 2020	MoE approved site 12 Oct 2020	Nov 2020	27 Nov 2020	28 Dec 2020	Dec 2020 to Jan 2021	02 Feb 2021	28 April 2021	May 21	28 Jun 21	12-Jul-2021

Table 3.5 Status of IEEs and EMPs

	Subproject	Site agreed	Land ownership	MOE approval	IEE Update			EMP Update			Notes
					Draft	Submitted to PMU	Submitted to ADB	Draft	Submitted to PMU	Submitted to ADB	
Battambang	Landfill	Yes	Being verified	Yes 13-02-20	Feb-21	10-03-21	Mar-21	Feb-21	10-03-21	Mar-21	IEE/EMP available on: https://www.adb.org/projects/50102-002/main#project-documents
	WWTP	Yes	Private	Yes	16-11-2020	18-02-2021	23-02-2021	16-11-2020	18-02-2021	23-02-2021	IEE/EMP available on: https://www.adb.org/projects/50102-002/main#project-documents
Serei Saophoan	Landfill	Yes	Private	Yes 14-10-19	Feb- 21	Mar-21	Mar-21	Feb-21			Preparation of IEE and EMP awaiting finalization of revisions to the landfill design
	WWTP	Yes	Private	Yes 11-02-20	28-04-2020	26-02-2021	18-Mar-2021	01-06-2020	26-02-2021	18-Mar-2021	IEE/EMP available on: https://www.adb.org/projects/50102-002/main#project-documents CEMP approved on 22-Sep-2021
Stueng Saen	Landfill	Yes	Private	Yes	30-05-2020	01-04-2021	07-04-2021	05-06-2020	01-04-2021	07-04-2021	IEE/EMP available on: https://www.adb.org/projects/50102-002/main#project-documents CEMP approved on 11-Aug-2021
	WWTP	Yes	State 6.9 ha. Private 10 ha.	Yes	19-11-2020	18-02-2021	23-02-2021	19-11-2020	18-02-2021	23-02-2021	IEE/EMP available on: https://www.adb.org/projects/50102-002/main#project-documents CEMP approved on 20-Sep-2021

3.4 Gender Action Plan (GAP)

- 17 The TS2 Project is classified as Effective Gender Mainstreaming (EGM) and the Gender Action Plan monitoring table is shown in Annex F. Identified gender issues include insufficient solid waste collection services, limited sanitation and sewerage systems resulting in poor environmental sanitation, decrease in local business and income during flooding, limited participation in decision-making and representation in the water and sanitation sector of female staff; and limited opportunities to strengthen and expand job opportunities for women.
- 18 In June 2022, during the ADB mission a discussion was held on the overall progress against the GAP. Key points discussed are summarized below:
- Women's representation in the PMU and PIU – currently targets are not met. Set up of PMU/PIU to be reviewed and wherever possible to increase female representation where possible.
 - The Land Use Master Plans to include a section on issues and gender responsive measures.

4 Implementation Progress

4.1 Project Organisation and Management

- 19 The contract for PMC (Contract No. PMU/MPWT/TS-2&CTP-4/CS01) was signed on 26 June 2019 between the Ministry of Public Works and Transport (MPWT) (The Client) and Ramboll Danmark A/S in Joint Venture with Oriental Consultant Global Co., Ltd. and SCE in association with Tancons (Cambodia) Co., Ltd (The Consultant).
- 20 The PMC was mobilized on 15 July 2019. The kick-off meeting took place at MPWT in Phnom Penh on 17th of July 2019 attended by key stakeholders.
- 21 The Ministry of Public Works and Transport (MPWT) is the Project's executing agency (EA) and will manage the implementation of the Project's outputs through a Project Management Unit (PMU) based in MPWT's main office in Phnom Penh.
- 22 Project Implementation Units (PIUs) have been established in each of the Project towns. These are embedded within the provincial Departments of Public Works and Transport (DPWT) for the different provinces.
- 23 As the available office space available in MPWT is insufficient to accommodate the large team, the PMC have rented an office space on the corner of Street 51 and Street 228.

4.1.1 Contract Variations

- 24 Contract Variation No. VO 7 is under preparation and discussion at the time of preparing this Report. The history and status of contract variations is shown in Table 4.1.

Table 4.1 Contract Variations, Current and Previous Quarters

Period	Variation No.	Key Dates:		No Objection from ADB	Main Items in Variation
		Submitted	Approved by MPWT		
Previous Quarters	1		22 Oct 2019	18 Oct 2019	Replacement International TL and National Deputy TL 1
	2		Feb 2020	March 2020	Change of scope – separate sewers, not combined and traditional procurement not D&B in CTDP4, removal of procurement tasks from PMC, change in scope of urban and provincial plan preparation
	3	29 June 2020	29 June 2020		Change in payment schedule for urban and

				provincial planning Agreement for PMU to pay sub-contractors for preparation of IEIAs
4	11 September 2020	11 September 2020		Replacement of National Deputy Team Leader 2
5	May 2021		29 June 2021	Reallocation to home input due to Covid19 restrictions, Additional time spent by PMC due to site changes and COI, scope changes, replacement of solid waste engineers (Intl. and Nat.) and Resettlement specialist (Nat).
6	June 2021	1 July 2021	30 July 2021	Replacement of International TL
7	June 2022	submitted	In progress	Old dumpsites Remediation (TS2 nos.2 and CTD4 nos. 2) Additional input and reallocation to home inputs experts Additional Supervision support; Serei Saophoan Landfill additional surveys Kratie Wastewater and Drainage additional surveys Master Plans LUMP and PSP translations. COI of Kampong Cham and Stung Treng landfills

This
Quarter 2:

4.2 Progress Monitoring

- 25 A Project Performance Monitoring System (PPMS) is being used to record the progress of the project. The percentage progress by Outputs and Activities according to the PPMS are provided in Annex C.
- 26 The current status of all project activities is summarised in Table 4.2.

Table 4.2 Status of Sub-project and other Project Activities

1. CIVIL WORKS AND EQUIPMENT

Contract No.	Town	Site Approval	Topo Survey	Geo Survey	Status	Action Required	Action By
TS2							
CW01 Lot 1 Wastewater & Drainage WWTP, sewers, drains	Stueng Saen	▪ Yes	▪ Completed	▪ Completed	▪ Construction on-going ▪ VO4 submitted to PMU and ADB	▪ Follow up VO4	▪ PMC, PIU & Contractor
CW01 Lot 2 Wastewater WWTP, sewers	Battambang	▪ Yes	▪ Completed	▪ Completed	▪ Construction on-going ▪ VO1 + VO2 approved. ▪ Construction of sewer system seriously delayed.	▪ Contractor to Revise construction schedule	▪ Contractor
CW02 Wastewater & Drainage WWTP, sewers, drains	Serei Saophoan	▪ MOE 11.2.20	▪ Completed	▪ Completed	▪ Construction on-going	▪ Contractor on schedule	▪ PMC, Contractor
CW03a Landfill	Serei Saophoan	▪ 14 Oct 2019	▪ Completed	▪ Completed	▪ Draft DED on on-going	▪ Ongoing preparation of DED	▪ PMC
CW03b Landfill	Stueng Saen	▪ 12 Oct 2020	▪ Completed	▪ Completed	▪ Construction on-going.	▪ Follow up VO1	▪ Contractor, PMC, PMU
CW03c Landfill	Battambang	▪ MOE 13.2.20	▪ Yes	▪ Yes	▪ Construction completed ▪ Hand-Over landfill site done May 2022	▪ Follow up Operation Management of LF ▪ DNP 1 year	• PIU, PMU
G02 Landfill equipment	Battambang Serei Saophoan Stueng Saen		▪ N.a.	▪ N.a.	▪ Equipment report for CW03c submitted to PMU	▪ Bidding process and purchase of equipment	▪ PMU, ADB

2. PROVINCIAL PLANS AND LAND USE MASTER PLANS

Output/Activity	Location/Coverage	Status	Next Steps	Action By
TS2				
Provincial spatial plan	Banteay Meanchey	▪ Draft PSP (Khmer) submitted in June 2022	▪ Final PSP (Khmer) submission	▪ PMC
LUMP	Serei Saophoan	▪ Draft LUMP (Khmer) submitted in June 2022	▪ Final LUMP (Khmer) submission	▪ PMC
LUMP	Stueng Saen	▪ Situation Analysis Report submitted June 2022 ▪ Vision Seminar held June 2022 ▪ Second workshop June 2022	▪ Draft LUMP submission	▪ PMC

Note: Land Use Master Plans /Provincial Plans need first to be translated into Khmer, afterwards the Local Governments will comment on the reports.

3. OTHER ACTIVITIES

Item	Status	Action Required	Action By
IEC	▪ Selection of NGO done. ▪ Contract signed June 2022.	▪ Submission of Inception Report 1 August 2022.	▪ PMC and NGO
Capacity Building	▪ Overall Training Plan submitted. ▪ Training on Environmental and Social Safeguards ongoing	▪ Training of Operators of Landfills.	▪ PMC, PIU

4.3 Implementation Activities

4.3.1 Consultant Team

- 27 The PMC team members mobilised during the quarter are shown in Table 4.3. A summary of inputs to date and remaining balances are shown in Annex E (for time-based team members only).

Table 4.3 International and National Consultants Active during the Quarter

Position	Name
International	
Team Leader	René van Doorn
Deputy Team Leader	Lars Orio
Social Safeguards and Resettlement Specialist	Teemu Jantunen
Urban Development Specialist	Howard Trett
Urban and Regional Planner	Hisako Kobayashi
Urban and Regional Economist	Manabu Fujikawa
Urban Planner	Tomoki Fukunaga
Gerard McNulty	Power Engineer
Solid Waste Expert	Steven Long
Social and Gender Expert	Alexander Timmermann
Senior Design Engineer	Dhanesh Prasad
Environmental Safeguards Expert	Peter Gammelgaard Jensen
Finance and Institutional Specialist	Alice Thauvin
National	
National Deputy Team Leader	Ho Ratha
National Deputy Team Leader	Ly Nara
Environmental Safeguard Specialist	Yim Chamnan
Social Safeguards & Resettlement Specialist TS2	Chan Narith
Solid Waste Engineer	Yin Somean
Urban Planner	Sim Bovisal
Land Use Management Specialist	David Chandavin
CAD Operator	Lon Saoveasna
Site Engineer Stueng Saen	Saing Soveasna
Site Supervisor Stueng Saen	Ham Laycheang
Site Engineer Battambang	Sem Chenda
Site Supervisor Battambang	Chuon Sokcheak
Site Engineer Serei Saophoan	Tith Sophal
Site Supervisor Serei Saophoan	Chan Saroeun

4.3.2 General Activities

- 28 Activities during this quarter have included meetings with stakeholders, topographical and soil surveys, detailed design work and supervision of 5 construction works contracts.

4.3.3 Activities by Output

- 29 The key activities undertaken during this quarter are summarised in Table 4.4 below.

Table 4.4 Key Implementation Activities by Output During the Reporting Period

Outputs	Summary of Activities Undertaken
Output 1: Urban Environmental Infrastructure Improved	<i>Battambang – Wastewater:</i> - Construction works ongoing; Contractor is far behind schedule. - VOs submitted for additional works
	<i>Battambang – Solid Waste Management:</i> - Construction works finished. - Management of Operation of Landfill.
	<i>Serei Saophoan – Wastewater:</i> - Construction activities ongoing; - Contractor is behind schedule.
	<i>Serei Saophoan – Solid Waste Management:</i> Ongoing draft engineering designs (DED) and draft design Report.
	<i>Stueng Saen – Wastewater:</i> - Construction activities on-going; - Contractor is on schedule.
	<i>Stueng Saen – Solid Waste Management:</i> Construction works ongoing; Contractor is on schedule.
	<i>Battambang, Serei Saophoan, Stueng Saen – Landfill Equipment:</i> Final Equipment and Machinery Report and Technical Tender requirements for Battambang and Stung Saen Landfills submitted.
Output 2: Institutional Effectiveness Improved	<i>Institutional Arrangements</i> - Review of the legal framework completed. Landfill Management Operation Reports submitted to PMU and PIU Battambang. - Second Field trip of the International Financial /Institutional Specialist in August to Battambang and Stung Saen to discuss Landfill Management Operation Assessment and future Waste Water Management in the towns.
	<i>Training Government Staff:</i> - Final Training Plan/ Programme submitted in May 2022. - Training ongoing on Environmental and Social Safeguards at the subprojects (PIU, Contractors and Site -Supervisors)
Output 3: Policy and Planning Environment Improved	<i>Roadmap for Financial Sustainability:</i> - Data collection finished. - Preparation of draft Roadmap depending on Operational Aspects of the Landfill Management and Wastewater management subprojects.
	<i>Urban Development Strategies and Master Plans:</i> - Banteay Meanchey Draft PSP 2040 (provincial special plan) in Khmer language submitted June 2022. - Serei Saophoan Land Use Master Plan (LUMP): Draft LUMP (Khmer) submitted in June 2022 - Stueng Saen Land Use Master Plan – Situation Analysis Report submitted in June 2022. Second workshop held June 2022.

4.3.4 Meetings

30 The key meetings held during this quarter are listed in Annex B.

4.4 Project Costs

- 31 Table 4.5 presents the current sub-project signed contracts till 30 June 2022 in relation to the Procurement Plan August 2020. It should be noted that the Contract values are including the approved Variation Orders till 30 June 2022. More VO's are likely; therefore, the final value will be higher than the current contract values as presented in the table below.
- 32 The below table includes only the contract values for five civil works contracts, not including Serei Saophoan Landfill construction contract and the Landfill Equipment contracts.
- 33 The current estimate for Serei Saophoan landfill is adjusted to mUS\$6.80. The site is very challenging and the actual estimated value is expected to be significantly higher than the amount in the original Procurement Plan (was originally PPTA estimate of mUS\$2.88).

Table 4.5 Current Estimates of Sub-project Costs (incl. approved VOs of ongoing sub-projects till 30 June 2022)

Contract No.	Sub-Project	Contract value mUSD (incl. VAT, incl. VOs)	Source	Procurement Plan (10 Aug 2020)	Difference mUSD
CW01	Lot 2: Battambang WWTP and sewerage	23.60	Signed contract value	37.49 *	1.35
	Lot 1: Stueng Saen WWTP, sewerage & drainage	15.24	Signed contract value		
CW02	Serei Saophoan WWTP, sewerage & drainage	22.49	Signed contract value	28.95	- 6.46
CW03a	Serei Saophoan Landfill	6.84	Estimate based on specific landfill site construction	6.84	0
CW03b	Stueng Saen Landfill	4.63	Signed contract value	3.59	1.04
CW03c	Battambang Landfill	6.28	Signed contract value	7.81	- 1.53
G02	Battambang, Serei Saophoan, Stueng Saen Landfill equipment	2.37	Procurement Plan	2.37	0
	Total for civil works and equipment	\$81.45		\$87.05	- \$5.60

* Total for the two sub-projects Lot 1 and Lot 2

- 34 It is anticipated that there will be upward contract adjustments for additional works and variations. This has already been reflected in several variation orders requests submitted by the contractors of the ongoing works. See further table 6.1 including VO's updated till 30 June 2022.
- 35 Further the budgets for CW03d - Remediation of Old Dumpsites in Stueng Saen and Serei Saophoan are not included in above table.

4.5 Procurement

4.5.1 Procurement Plan

- 36 The Procurement Plan for TS2 is shown in Annex G.

4.5.2 Procurement of Civil Works and Equipment

- 37 Five civil works contracts are under construction phase at the moment. The status of procurement of civil works and equipment contracts is summarised in Table 4.6.

Table 4.6 Procurement Status of Civil Works and Equipment Contracts

Package No.	Package Name	Estimated Value (\$m) incl. VAT.	Original Contract Value (USD) incl. VAT, excl. VO's	Method of Procurement	Type of Contract	Review	Submission of Proposed Bidding Documents to ADB	ADB Approval of Bid Docs	Invitation for Bid/ RFP Issued	Bid Opening / Receipt of Proposals	BER to ADB	ADB Approval of BER/ Issuance of NOL	Contract Signing
CW01 Lot 1	Wastewater and Drainage Stung Saen	37.49	12,761,907.54	ICB	Works	Prior	09-Aug-19	13-Aug-19	16-Aug-19	16-Oct-19	01-Dec-19	25-Mar-20	06-Jul-20
CW01 Lot 2	Wastewater and Drainage Battambang		21,717,622.97	ICB	Works	Prior	09-Aug-19	13-Aug-19	16-Aug-19	16-Oct-19	01-Dec-19	25-Mar-20	14-Aug-20
CW02	Wastewater and Drainage Serei Saophoan	28.95	22,486,179.98	ICB	Works	Prior	24-Jul-20	28-Jul-20	31-Jul-20	22-Sep-20	02-Dec-20	19-Mar-21	19-Apr-21
CWO3a	Serei Saophoan Solid Waste Management	6.84	-	ICB	Works	Prior	(Sep-22)	(Nov-22)	(Jan-23)	(Mar-23)	(Apr-23)	(Apr-23)	(May-23)
CWO3b	Stung Saen Solid Waste Management	3.59	4,093,763.80	ICB	Works	Prior	22-Jan-21	1 Mach 21	03-Mar-21	06-May-21		03-Jun_21	14-Jun-21
CWO3c	Battambang Solid Waste Management	7.81	5,344,474.02	ICB	Works	Prior	16-Oct-20	11-Dec-20	16-Dec-20	28-Jan-21	22-Feb-21	08-Mar-21	15-Mar-21
G02	Solid Waste Management Equipment	2.37	-	NCB	Goods	Prior	(Aug-22)	(Sep-22)	(Oct-22)	(Dec-22)	(Jan-23)	(Jan-23)	(Feb-23)

Note: CW03a Serei Saophoan Solid Waste Management and Solid waste Management Equipment: provisional forecast dates (...)

All estimated and contract values are inclusive 10% VAT.

4.6 Provincial Planning and Municipality Planning

4.6.1 Activities

38 The key activities undertaken during this quarter are summarised in Table 4.7 below.

Table 4.7 Key Implementation Activities by Output

Outputs	Summary of Activities Undertaken
Output 1: Formulation of Provincial Spatial Plan	<i>Banteay Meanchey:</i> Draft PSP 2040 (Khmer language) submitted in June 2022
Output 2: Formulation of Land Use Master Plan	<i>Sarei Saophoan:</i> Draft LUMP (Khmer language) submitted in June 2022
	<i>Stueng Saen:</i> - Situation Analysis Report submitted in June 2022 - Second Workshop held June 2022

5 Compliance with Covenants

39 The status of covenant compliance is shown in the tables in Annex G.

6 Project Implementation Issues

6.1 Issues Affecting Project Implementation Progress

6.1.1 Covid 19

40 The Covid-19 pandemic restrictions are being relieved, and at the moment it has minor impact on project operations and progress. However, ongoing issues following the Covid19 restrictions, like supply chain shortages, give contractors some difficulties because of longer delivery times and increasing prices for various materials and fuel.

41 The wet season has started in Cambodia and will have influence in the construction planning. It is not possible to execute ground/ soil works (esp. excavate sewer trenches, excavating treatment ponds, installing landfill bottom liners, etc.) during heavy rainfall. Delays due to heavy rain is expected the coming months.

42 At the moment 5 subprojects are under construction supervision phase, see next sub-paragraphs.

6.1.2 CW01 Lot 1: Stueng Saen Wastewater

43 PMC has completed work for zero cost VO4 with the contractor MCC and PIU finding potential savings for the Contract budget. Reduction in quantities of tertiaries, household connections, sewers and drainage in Zone C and D. The VO4 has been agreed with PIU and PMU.

44 After ADB reviewed VO4 some points have to be clarified. PMC has sent clarifications to ADB on June 27, 2022.

- 45 After sewer construction, roads are repaired as the status before sewer construction. However, some roads have bad foundation layers. At the moment contractor MCC is doing some repair trials by section for road repairing.
- 46 The Contractor is on schedule – planned progress at the end of June 2022 is 66.98%, whereas actual progress is 66.32%.
- 47 Contractor have incurred various times disruptive events many times due to heavy rain which has caused delays to their works and are likely to have an impact on the completion date.
- 48 Household connection onsite plumbing have been started and now contractor faced the problems with the connection works which some people did not accept because they are concerned about paying fee and they do not want the contractor to trouble them by damaged their floor tiles in their house. This will be further discussed with PIU and NGO.

6.1.3 CW01 Lot 2: Battambang Wastewater

- 49 Contractor continues works at a slow pace with only few people and have not CAD operators in BTB site office for expedite the shop drawing. Many shop drawings are not prepared yet, such as sewer lines, tertiary lines and onsite plumbing sewer systems.
- 50 It should be noted that construction works for sewer pipelines are 13 months delay compared with construction schedule. Currently the contractor has only three teams on site. 1) First team worked for gravity collector pipe line installation using by trenching excavation, 2) Second team continued to construct the access road to WWTP, and 3) Third team continued worked for liner installation in WWTP. Tertiaries pipe lines and household connections have not yet been started.
- 51 The Contractor is far behind schedule – planned progress at the end of June 2022 should be 48.48%, whereas actual progress is 29.22%. With Contractor's current pace of work activities, the construction works will not finish on time.
- 52 A site meeting was held on June 21, 2022 at BTB site office with contractor MTA, PIU and PMC. PIU asked contractor to improve his performance and follow up their works for the next month.
- 53 Continue performance and compliance meetings with MTA Contractor.

6.1.4 CW02 Serei Saophoan Wastewater

- 54 The Contractor's activities during this period: a) pre-cast production of manholes and other underground structures, b) Design shop drawing Sewer line in Zone 1 and access road with structures, c) Backfilling embankment seventeen layer at WWTP, d) benching & compaction embankment access road, e) Installation for HDPE pipe line Secondary and Primary sewer at Zone 4 on-going, f) Trench Excavation for HDPE force main MPS4 to MPS1 pipeline start from PK: 0+000 to PK: 0+050.
- 55 The Contractor is on schedule – planned progress at the end of June 2022 is 11.14%, whereas actual progress is 11.40%.
- 56 Communication between contractor, PIU and local authority is not going well and cause of misunderstandings and flow documentation is very slow and sometime stuck at PIU.

6.1.5 CW03c Battambang Landfill

- 57 The completion certificate has been issued on 4th April 2022 confirming that works were completed on 28th of March, 2022.

- 58 The final handover to the Province has been done at a Governmental - Provincial meeting on May 5, 2022.
- 59 Draft Note on Operation Management of Landfill Battambang have been submitted to PMU on June 16, 2022.

6.1.6 CW03b Stueng Saen Landfill

- 60 Variation Order 1 (VO1) was approved by ADB. The VO1 consisted of:
- Two boreholes added for measuring groundwater level at Cell 1 and Leachate Pond.
 - Access Road - Bill No. 2: the actual quantities are higher than the quantities in the contract BoQ.
 - Site Development - Bill No. 3.1: missing items in the contract BoQ and new items.
 - Buildings-Bill No. 4.1 to No.4.8: actual quantities are higher than original quantities in contract BoQ.
 - Leachate storage and treatment: changes in BOQ - Bill No. 5.3.
- 61 The contractor works for buildings construction, clay filling for ponds and cell 1. Manpower has been increased considerably resulting in works going at high speed.
- 62 The Contractor is behind schedule - Construction of Stueng Saen Solid Waste Management planned progress at the end of June 2022 is 86.97%, whereas actual progress is 51.95% (including VO#1 works). However, related to the construction works performed by the same Contractor at Battambang Landfill, it is anticipated that the Contractor will be on schedule within 2 or 3 months.

6.1.7 CW03a Serei Saophoan Landfill

- 63 Detailed Design progress on Serei Saophoan is slow due to many challenges of this problematic location in a 30m deep quarry. During the ADB mission it was proposed to change to another location similar as e.g., Stung Saen Landfill, however this was not accepted.
- 64 Due to limited land availability PMU also agreed to not implement the Material Recycling Facility (MRF). Materials recycling already happens in the towns itself at the moment, so there is no need for an MRF at the Landfill site.
- 65 An option was presented to plan the buildings (without the MRF) next to the entrance of the quarry landfill area. As the building area could be minimized as much as possible, only a small area of land is required. This land issue for buildings is under discussion with GDR.

6.1.8 Works Contracts Value and Overview of VOs

- 66 The following table 6.1 present the total updated contract values for each project at the end of this reporting period.

Table 6.1 Contract value Work Contracts incl. VOs end of reporting period (incl. VAT)

Package No	Name of the Sub Project	Contract Value (UD\$)	Updated Contract Value incl. VO1	Updated Contract Value incl. VO2	Updated Contract Value incl. VO3	Updated Contract Value incl. VO4
CW 01 Lot 1	Wastewater and Drainage Stueng Saen	12,761,907.54	12,761,907.54	13,832,566.84	15,240,708.21	(15,240,708.21) (not yet approved)
CW 01 Lot 2	Wastewater and Drainage Battambang	21,717,622.97	22,554,315.11	23,603,051.95		
CW02	Wastewater and drainage Serei Saophoan	22,486,179.98				
CW03a	Serei Saophoan Solid Waste Management	-				

CW03b	Stung Saen Solid Waste Management	4,093,763.80	4,629,339.44			
CW03c	Battambang Solid Waste Management	5,344,474.02	5,870,067.21	6,283,747.83		
GO2	Equipment Solid Waste	-				

6.1.9 Grievance Redress Mechanism (GRM)

- 67 The GRM is designed to receive, evaluate and facilitate the resolution of residents' concerns, complaints and grievances during project implementation. Grievance Redress Committees (GRC) were established in each of the three towns in 2019. GRC composition did not have any changes in the reporting period. All of the GRCs are fully operational.
- 68 The GRM process is included in the PIBs, have been circulated to the target communities and affected persons for all subprojects. PIBs include GRC contact person names and contact details.
- 69 In the reporting period, no complaints have been reported, verbally or written, via GRM, or directly to PMU, PIU or PMC.

6.1.10 IESIAs

- 70 The PMU directly recruited and contracted Cambodian consultants to undertake the preparation of the required IESIAs. In late 2019 agreement was reached between ADB and MOE that draft IESIAs could be based on outline designs where sites and asset performance parameters would not change during DED. If the PPTA is at a different site, or has a different performance specification, in such cases the IESIA could not be based on the PPTA feasibility study (ref. Relevant Aide Memoire - Nov 2019) and would be based on the consultant's DEDs.

7 Work Plan

- 71 The summary schedule is shown in Annex D.
- 72 The major activities planned wait for the next quarter are shown in Table 7.1 below.

Table 7.1 Key Activities Planned for Next Quarter

Civil Works and Equipment	Activities
Battambang – Wastewater	▪ Ongoing Civil works supervision and monitoring ▪ Contractor training
Battambang – Solid Waste Management	▪ Contract finished. DNP ongoing.
Serei Saophoan – Wastewater	▪ Ongoing Civil works supervision and monitoring ▪ Contractor training
Serei Saophoan – Solid Waste Management	▪ Preparing the draft DED ▪ Buildings designs and building area design to await the results of land availability.
Stueng Saen – Wastewater	▪ Ongoing Civil works supervision and monitoring ▪ Contractor training
Stueng Saen – Solid Waste Management	▪ Ongoing Civil works supervision and monitoring ▪ Contractor training
Battambang, Serei Saophoan, Stueng Saen – Landfill Equipment	▪ Landfill equipment specifications for bidding submitted to PMU, awaiting final decision on purchase of LF equipment Battambang and Stung Saen,
Institutional Effectiveness	
Institutional assessment	▪ Further review of the legal framework covering: i. wastewater and solid waste sectors; ii. types and roles of public organizations (national and local administrations, public companies, etc.); iii. public investment, budgeting and accounting, and iv. revenue sources for public organizations.
Training Government Staff	▪ Training plan / programme submitted and ready for implementation ▪ Training sessions on Environmental and Social safeguards started and ongoing (PIUs, Contractors and Site supervisors)
Policy and Planning	
Roadmap for Financial Sustainability	▪ Scoping ongoing awaiting final decision on Management of Operation activities of the subprojects.
Urban Development Strategies and Master Plans	▪ Completion and submission of final PSP for Banteay Meanchey ▪ Completion and submission of final LUMP for Serei Saophoan ▪ Completion and submission of draft LUMP for Stueng Saen

Annex A: Design and Monitoring Framework

TS2 Design and Monitoring Framework

Impact the Project is Aligned with sustainable, inclusive, equitable, and resilient growth achieved (National Strategic Development Plan, 2014–2018) ^a			
Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting	Risks
Outcome Urban services improved in participating cities	By 2026 a. 69,800 people (35,750 women) serviced by new and improved wastewater collection and treatment facilities (2017 baseline: 6,300) b. 188,800 people (96,700 women) served by improved solid waste management (2017 baseline: 61,900) c. 15,700 people (8,040 women) benefit from reduced flooding through improved drainage (2017 baseline: not applicable)	a–c. Annual reports by DPWTs and MPWT, monitoring reports, ADB loan missions, and project completion report	Lack of financial sustainability from limited cost recovery and/or low willingness of households to connect to sewerage network or pay for improved services
Outputs 1. Urban environmental infrastructure improved	By 2024 1a. 3 new wastewater treatment plants with 9,600 m ³ /day capacity constructed (2017 baseline: 0) 1b. 204 km of new sewer networks constructed (2017 baseline: 0) 1c. 26 km of new drainage networks constructed (2017 baseline: 0) 1d. 3 controlled landfills with 528,000 m ³ capacity constructed and operational (2017 baseline: 3 dump sites) 1e. 30% of staff employed in O&M are women (2017 baseline: 0)	1a–e. Project construction records and project progress reports	Construction delays from late approval and implementation of land acquisition and/or resettlement Poor O&M of project infrastructure, given limited local capacity for O&M
2. Institutional effectiveness improved	2a. Semiautonomous USUs established and operational (2017 baseline: not applicable) 2b. 25 government staff (including 10 women) reported increased knowledge on urban service delivery, urban facilities O&M, and public–private partnerships and other institutional arrangements (2017 baseline: 0)	2a. Project progress reports 2b. Training records	Low financial management and technical capacity at PIUs, and ineffective transition to USUs
3. Policy and planning environment improved	3a. Road map for financial sustainability (including tariff road map) developed between MPWT and three provincial governments, with consultation from MEF, MIH, MOWA, MRD, and other agencies (2017 baseline: not applicable)	3a–b. Project progress reports	Ineffective or delayed implementation of financial sustainability road maps
	3b. Urban development strategy and master plan with climate-resilient and gender-responsive measures developed and approved in all three cities (2017 baseline: not applicable)		

Key Activities with Milestones 1. Urban environmental infrastructure improved 1.1 Issue bidding documents for Battambang wastewater and Stueng Saen wastewater and drainage contracts by Q3 2018 1.2 Award works contracts for Battambang wastewater and Stueng Saen wastewater and drainage by Q2 2019 1.3 Complete land acquisition for Serei Saophoan wastewater and all landfills by Q2 2019 1.4 Issue bidding documents for Serei Saophoan wastewater and drainage by Q3 2019 1.5 Issue bidding documents for landfills in all three cities by Q1 2020 1.6 Award works contract for Serei Saophoan wastewater and drainage by Q1 2020 1.7 Award works contracts for landfills in all three cities by Q3 2020 1.8 Complete construction by Q4 2022 2. Institutional effectiveness improved 2.1 Begin on-the-job training for PMU and PIU staff by Q2 2020 2.2 Establish semiautonomous units with adequate staff by Q1 2021 2.3 Conclude on-the-job training for PMU and PIU staff by Q3 2023 3. Policy and planning environment improved 3.1 Begin preparation of urban development strategy and master plans by Q2 2019 3.2 Begin preparation of financial sustainability road map by Q2 2019 3.3 Finalize urban development strategy and master plans by Q4 2019 3.4 Develop financial sustainability road map by Q1 2020
Inputs Asian Development Bank: \$87.73 million (concessional loan) Asian Development Fund Disaster Risk Reduction Fund: \$1.27 million (grant) Government: \$8.70 million
Assumption for Partner Financing Not applicable.

ADB = Asian Development Bank; km = kilometer; m3 = cubic meter, MEF = Ministry of Economy and Finance; MIH = Ministry of Industry and Handicrafts; MOWA = Ministry of Women's Affairs; MPWT = Ministry of Public Works and Transport; MRD = Ministry of Rural Development; O&M = operation and maintenance; DPWT =

Department of Public Works and Transport; PIU = project implementation unit; PMU = project management unit, Q = quarter, USU = urban service unit.

a Government of Cambodia. 2014. National Strategic Development Plan, 2014–2018. Phnom Penh. Source: Asian Development Bank.

Annex B: List of Key Meetings Held During this Quarter

Date	
6-7 April 2022	National DTL, Site Engineer and Site Supervisor to have Site visits and meetings with contractor HSB for CW03b contract and contractor MCC for CW01 lot1 contract at Stueng Saen
22 April 2022	PMC's Project Manager, Team Leader, and Social Development and Gender Specialist to have contract negotiation for IEC Activities with GRET (NGO) and PMU's Procurement Specialist (Hybrid Meeting)
24-25 April 2022	Team Leader to have field visit with International DTL at Battambang wastewater, have a meeting with contractor MTA for CW01 lot2 contract
26 April 2022	Team Leader to have field visit with International DTL at Serei Saophoan wastewater site, and have a meeting with contractor BUCG for CW02 contract
27 April 2022	Team Leader, International and National DTL to have site visits and meetings with contractor HSB for CW03b contract and contractor MCC for CW01 lot1 contract at Stueng Saen
28 April 2022	Team Leader, Project Manager, International and National DTL to have meeting with PMU's Project Director and PMU members at PMU's Office
2-3 May 2022	International and National DTL to have meeting with local authorities, PIU, Water Supply in Serei Saophoan and contractor BUCG for CW02 contract to solve problems with underground structures of Water Supply
4-5 May 2022	National DTLs and National Solid Waste Engineer to have meeting and presentation of O&M and of the Options of Management for Battambang Landfill Subproject at Handover ceremony of the landfill to provincial governor
9 May 2022	International and National DTL together with Site Engineer and Site Supervisor to have ADB mission review & presentation and progress meeting with contractor HSB for CW03b contract and contractor MCC for CW01 lot1 contract at Stueng Saen
23 May 2022	Solid Waste Engineer to visit landfill site at Serei Saophoan to assess Site boundary and other issues
30 May 2022	National DTLs to have meeting with PMU and Contractor MTA at PMU office to discuss pipe installation of Battambang Wastewater Subproject
7 June 2022	PMC's Team Leader and National DTLs with PMU to have kick-off meeting with ADB for TS2 Project at PMU Office
8-12 June 2022	PMC's Team Leader, Project Manager and National DTL to have ADB mission for TS2 project at Battambang and Serei Saophoan towns
9-10 June 2022	Institutional Development Specialist to conduct meeting with Stueng Saen stakeholders in order to arrange Online meetings
15 June 2022	International Finance and Institutional Specialist and National Institutional Development Specialist to have Online Meeting with Kampong Thom DPWT, with Stueng Saen Municipality on Solid Waste and Wastewater Management
16 June 2022	International Finance and Institutional Specialist and National Institutional Development Specialist to have Online Meeting with Kampong Thom Water Supply Unit
17 June 2022	Wrap up of ADB Mission through Video Conference
16-18 June 2022	National Resettlement and Safeguard Specialist to have public consultation meeting for Variation Order No.4 with local authorities at Stueng Saen and face to face consultation with residents of village and farmer who are living near the PS1
20-21 June 2022	National DTL, Site Engineer and Site Supervisor to have site visit and site meeting with contractor MTA for CW01 lot2 contract at Battambang and with contractor BUCG for CW02 contract at Serei Saophoan
22-23 June 2022	National DTL, Site Engineer and Site Supervisor to have site visit and site meeting with contractor HSB for CW03b contract and contractor MCC for CW01 lot1 contract at Stueng Saen

Annex C: Project Progress by Output

Activities	Weighting	Plan/Progress (%)	
Overall			
		Plan cumulative %	89.27%
		Progress to date %	71.96%
Output 1: Urban environmental infrastructure improved	70%		
		Plan cumulative %	88.79%
		Progress to date %	72.25%
Wastewater Treatment Plants, Sewerage and Drainage			
		Plan cumulative %	94.43%
		Progress to date %	77.97%
i. Stueng Saen WWTP, Sewerage and Drainage			
		Plan cumulative %	95.60%
		Progress to date %	80.40%
ii. Serei Saophoan WWTP, Sewerage and Drainage			
		Plan cumulative %	91.60%
		Progress to date %	74.29%
iii. Battambang WWTP, Sewerage and Drainage			
		Plan cumulative %	96.10%
		Progress to date %	79.23%
Wastewater Treatment Plants	20%		
		Plan cumulative %	94.27%
		Progress to date %	78.35%
i. Stueng Saen WWTP	33%		
		Plan cumulative %	95.10%
		Progress to date %	80.05%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	48.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	49.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	36.00%

ii. Serei Saophoan WWTP	33%		
		Plan cumulative %	91.60%
		Progress to date %	74.70%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	25.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	25.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	11.00%
iii. Battambang WWTP	33%		
		Plan cumulative %	96.10%
		Progress to date %	80.30%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	40.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	38.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	32.00%

Sewerage & Drainage	30%		
		Plan cumulative %	94.60%
		Progress to date %	77.59%
i. Stueng Saen Sewerage	33%		
		Plan cumulative %	96.10%
		Progress to date %	80.75%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	40.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	39.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	34.00%
ii. Serei Saophoan Sewerage and Drainage	33%		
		Plan cumulative %	91.60%
		Progress to date %	73.87%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	99.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	24.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	18.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	9.00%

iii. Battambang Sewerage	33%		
		Plan cumulative %	96.10%
		Progress to date %	78.15%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	95.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	38.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	36.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	23.00%
Landfills	15%		
		Plan cumulative %	99.47%
		Progress to date %	77.51%
i. Stueng Saen Landfill	33%		
		Plan cumulative %	99.80%
		Progress to date %	78.40%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	35.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	37.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	24.00%

ii. Serei Saophoan Landfill	33%		
		Plan cumulative %	99.80%
		Progress to date %	56.38%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	99.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	0.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	0.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	85.00%
Preparation of BOQ and specs	10%		
		Cumulative %	41.00%
Preparation of Bidding Documents	2%		
		Cumulative %	79.00%
Bidding process/Award of contract	5%		
		Cumulative %	0.00%
Construction and Installation	20%		
		Cumulative %	0.00%
iii. Battambang Landfill	33%		
		Plan cumulative %	98.80%
		Progress to date %	97.75%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	100.00%
Preparation and Approval of IEIA	10%		
		Cumulative %	100.00%
Implementation of Land Acquisition and Resettlement/Site Purchase	3%		
		Cumulative %	100.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	99.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	60.00%
Preparation of Detailed Engineering Design	15%		
		Cumulative %	100.00%
Preparation of BOQ and specs	10%		
		Cumulative %	100.00%
Preparation of Bidding Documents	2%		
		Cumulative %	100.00%
Bidding process/Award of contract	5%		
		Cumulative %	100.00%
Construction and Installation	20%		
		Cumulative %	99.00%

Staff Employed in O&M are women	5%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
i. Stung Treng O & M Staff	33%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
Staff employed in O&M are women	100%		
		Cumulative %	0.00%
ii. Serei Saophoan O & M Staff	33%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
Staff employed in O&M are women	100%		
		Cumulative %	0.00%
iii. Battambang O & M Staff	33%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
Staff employed in O&M are women	100%		
		Cumulative %	0.00%
Output 2: Institutional Effectiveness Improved	20%		
		Plan cumulative %	71.13%
		Progress to date %	16.38%
a. Establishment of Urban Services Units	75%		
		Plan cumulative %	70.00%
		Progress to date %	12.00%
Stueng Saen	33%		
		Cumulative %	9.00%
Serei Saphoan	33%		
		Cumulative %	9.00%
Battambang	33%		
		Cumulative %	18.00%
b. Training	25%		
		Plan cumulative %	74.50%
		Progress to date %	29.50%
Training Needs Assessment	25%		
		Cumulative %	100.00%
Training Delivery	75%		
		Cumulative %	6.00%
Output 3: Policy and Planning Environment Improved	10%		
		Plan cumulative %	100.00%
		Progress to date %	98.75%
a. Preparation of Land Use Master Plan	50%		
		Plan cumulative %	100.00%
		Progress to date %	98.50%
Stueng Saen	50%		
		Cumulative %	99.00%
Serei Saphoan	50%		
		Cumulative %	98.00%
b. Preparation of Provincial Plans	50%		
		Plan cumulative %	100.00%
		Progress to date %	99.00%
Banteay Meanchey Province	100%		
		Cumulative %	99.00%

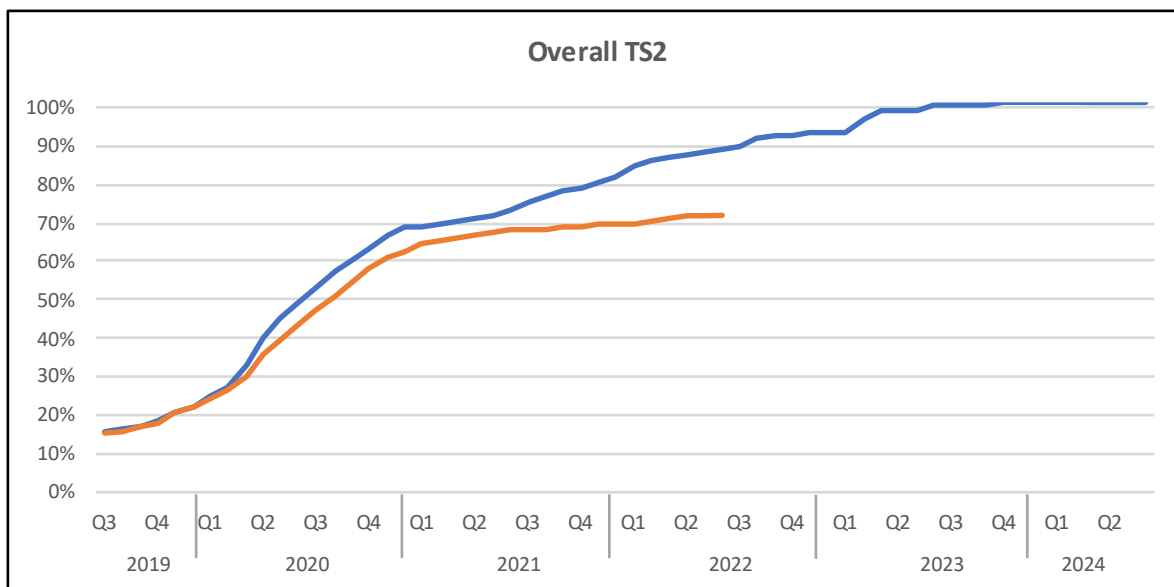
Output Progress Compared with Planned Progress

(Based on work plans prepared in April 2020)

Project Progress - Outputs from Project Performance Monitoring System

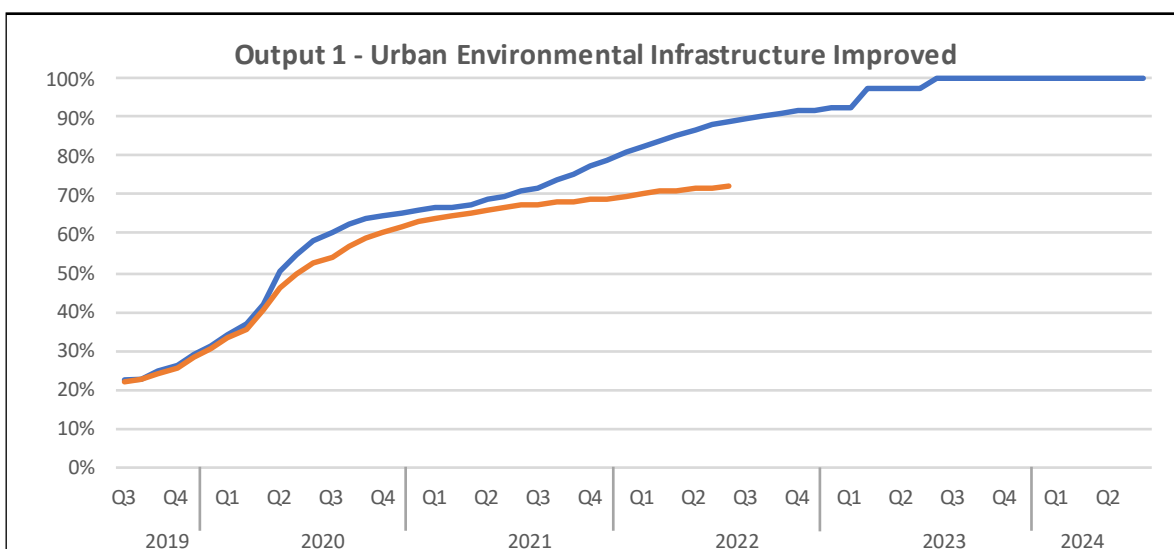
June 2022

TS2



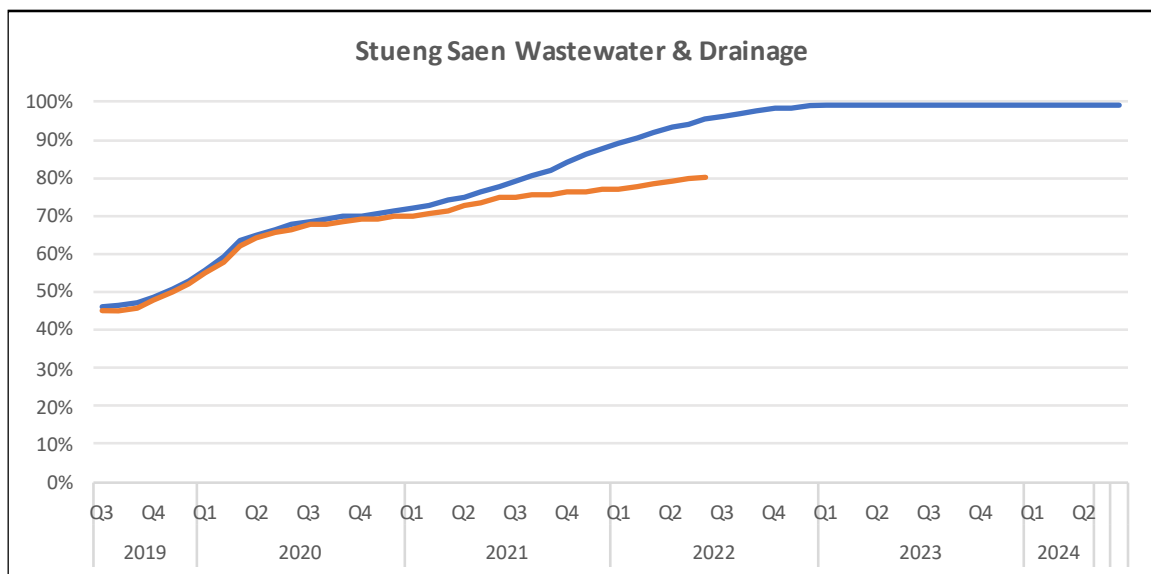
Plan 89.27%

Actual 71.96%

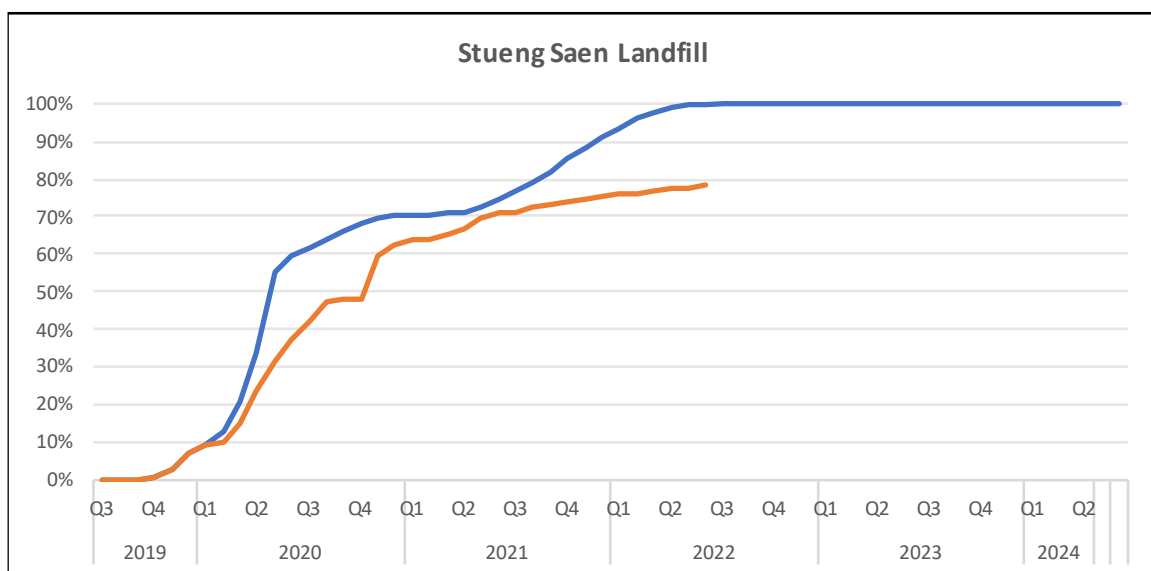


Plan 88.79%

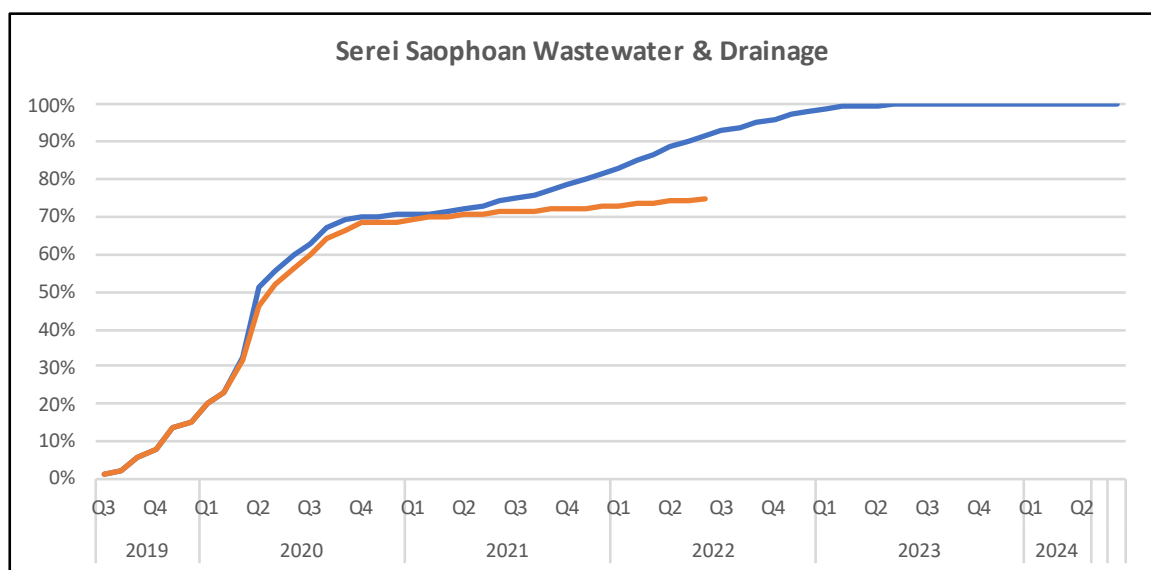
Actual 72.25%



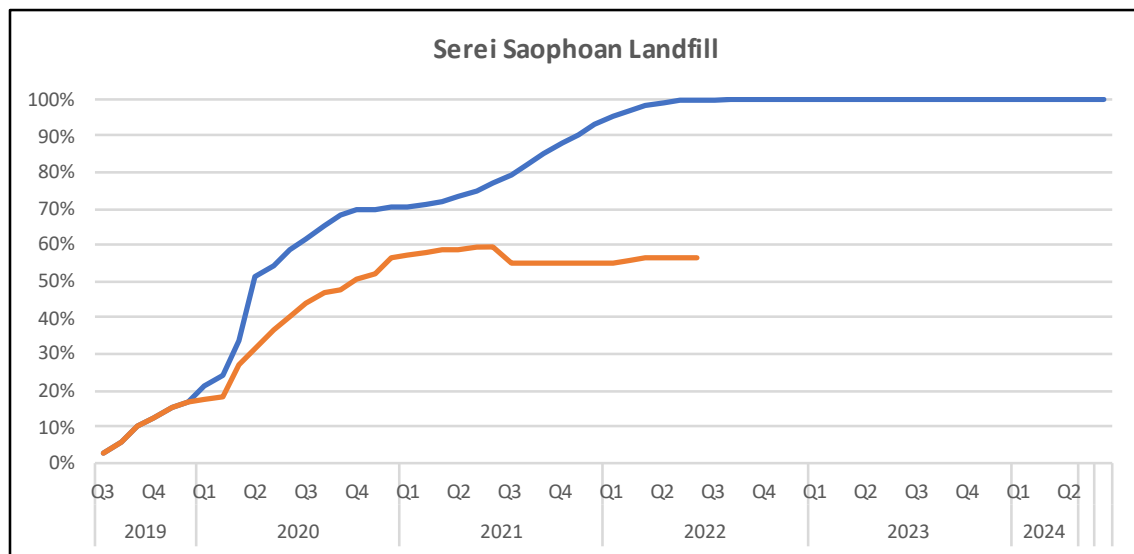
Plan 95.60% **Actual** 80.40%



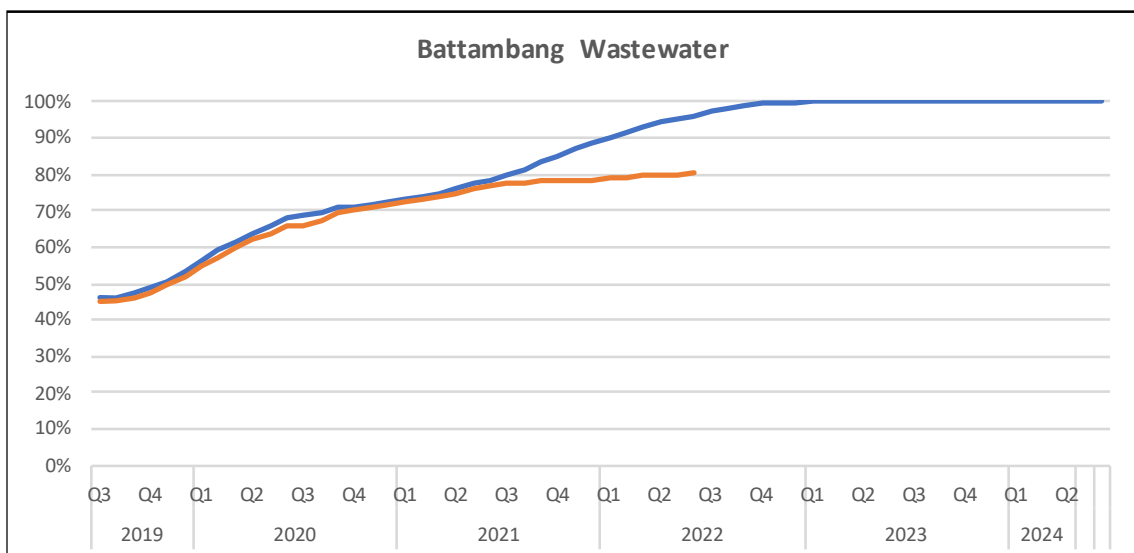
Plan 99.80% **Actual** 78.40%



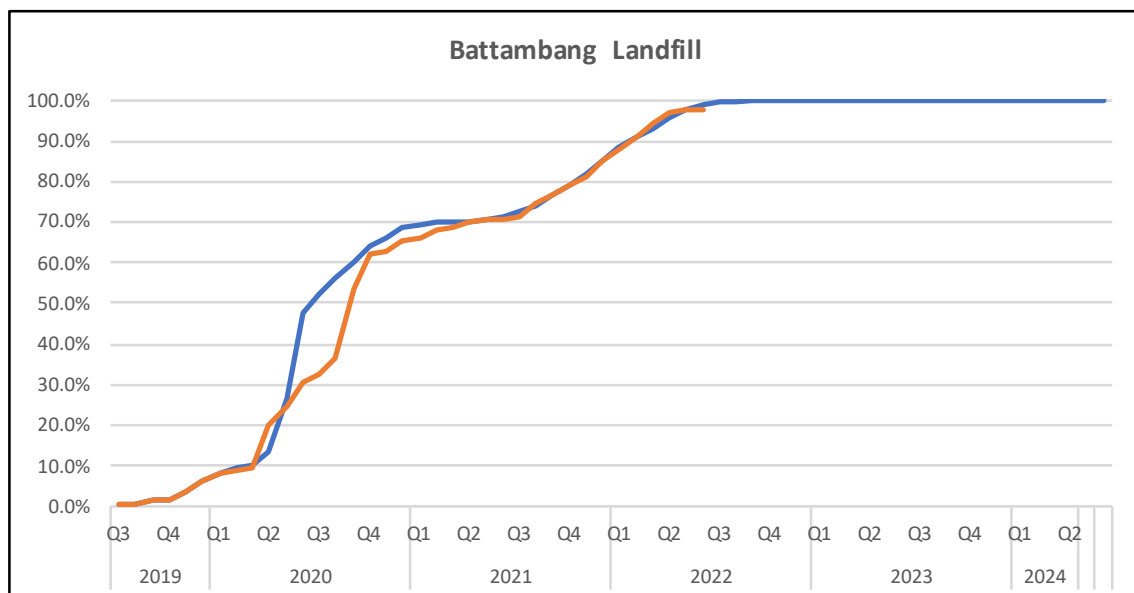
Plan 91.60% **Actual** 74.29%



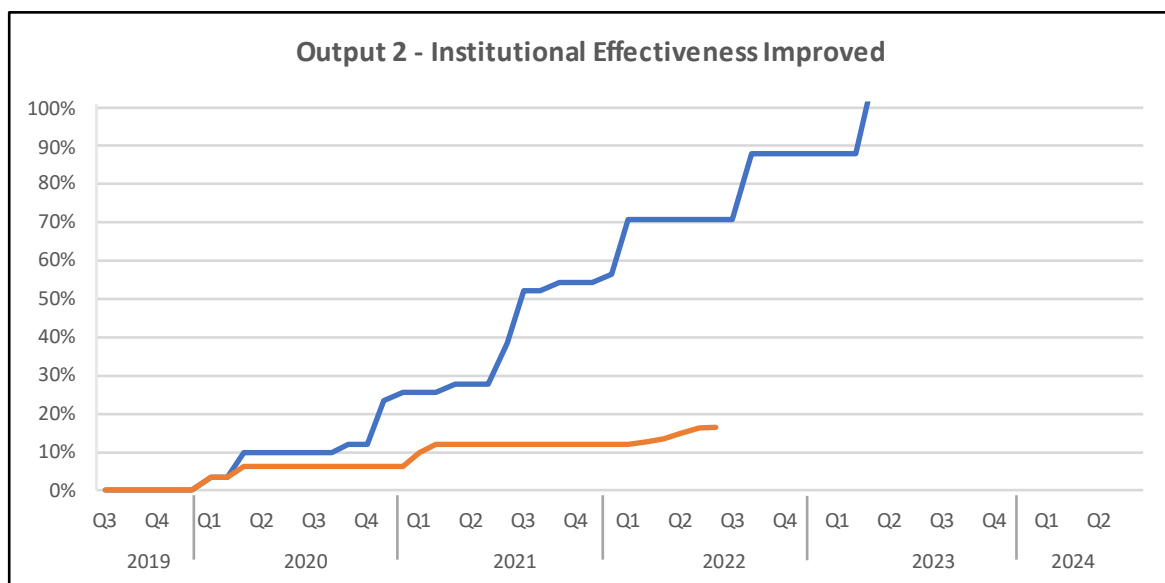
Plan 99.80% **Actual** 56.38%



Plan 96.10% **Actual** 79.23%

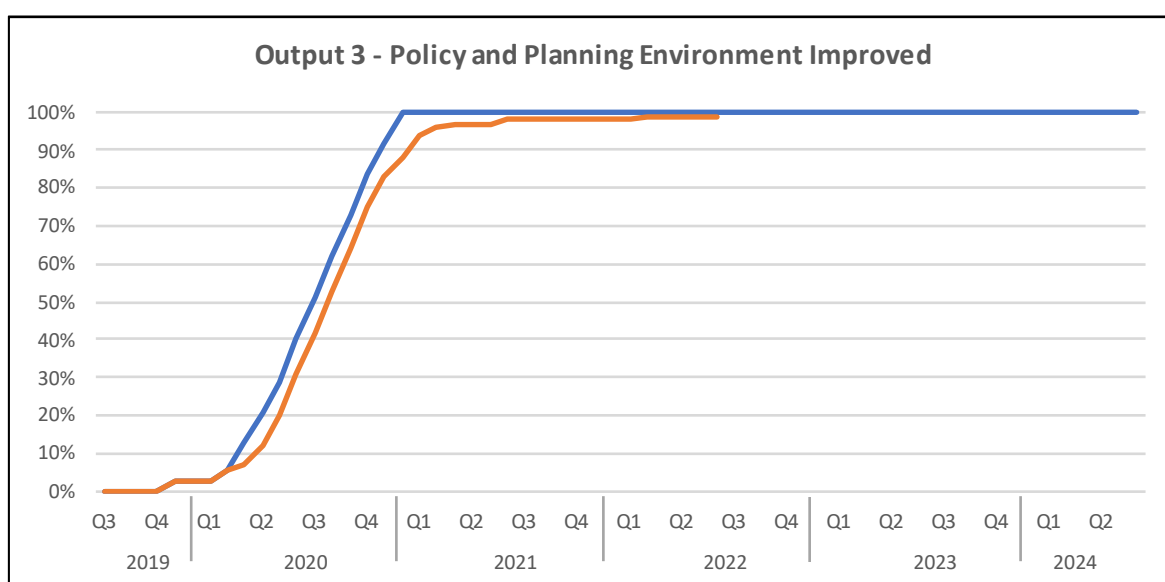


Plan 98.80% **Actual** 97.75%



Plan 71.13%

Actual 16.38%



Plan 100.00%

Actual 98.75%

[illegible]

Annex E: Consultant Inputs (Time-based only)

TS2 Timesheet input								
Quarterly 2 (Apr - Jun 2022)								
Position Code	Name	Position	Contract Amount	Contract Amount after Variation Order No.6	Cumulative to Q1 Mar'22	Q2 Period Apr-Jun'22	Total	Balance
International Expert								
Int.KE-1	Mr. René van Doorn	Team Leader	27.00	27.00	14.52	2.08	16.60	10.40
Int.KE-2	Mr. Lars Orio	International Deputy Team Leader	22.41	22.41	19.40	1.77	21.17	1.24
Int.KE-4	Mr. Steven Long	Solid Waste Management Engineer	2.00	2.00	1.33	0.05	1.38	0.62
Int.KE-5	Mr. Peter Peter Gammelgaard Jensen	Environmental Safeguard Specialist	5.00	5.00	3.67	0.15	3.82	1.18
Int.KE-6	Mr. Teemu Jantunen	Social Safeguard and Resettlement Specialist	5.00	7.50	6.55	0.35	6.90	0.60
Int. NKE-7	Ms. Alice Thauvin	Finance and Institutional Specialist	5.00	5.00	1.05	0.44	1.49	3.51
Int.NKE-9	Mr. Alexander Timmerman	Social Development and Gender Specialist	2.00	2.00	1.54	0.24	1.78	0.22
National Expert								
Nat.KE-1.1	Mr. Ho Ratha	Deputy Team Leader (TS2)	55.00	55.00	28.96	3.00	31.96	23.04
Nat.KE-2	Mr. Yin Somean	Solid Waste Engineer	6.00	6.00	4.52	2.37	6.89	-0.89
Nat. KE-5.1	Mr. Yim Chamnan	Environment Safeguards Specialist-1	14.00	14.00	9.53	0.56	10.09	3.91
Nat.KE-6.1	Mr. Chan Narith	Social Safeguard and Resettlement Specialist-1	12.00	15.00	15.21	0.60	15.81	-0.81
Nat. KE-7	Mr. Chheav Nak	Institutional Development Specialist	8.00	8.00	1.02	0.41	1.43	6.57
Nat.NKE-8.1	Mr. Sem Chenda	Site Engineer-1 (Battambang)	25.00	25.00	18.00	3.00	21.00	4.00
Nat.NKE-8.2	Mr. Tith Sophal	Site Engineer-2 (Serei Saophoan)	25.00	25.00	8.00	3.00	11.00	14.00
Nat. NKE-8.3	Mr. Saing Soveasna	Site Engineer-3 (Steung Saen)	25.00	25.00	19.94	3.00	22.94	2.06
Nat. NKE-9.1	Mr. Chuon Sokcheak/ Mr. Sieng Yon	Site Supervisor-1 (Battambang)	30.00	30.00	17.00	3.00	20.00	10.00
Nat.NKE-9.2	Mr. Chan Saroeun	Site Supervisor-2 (Serei Saophoan)	30.00	30.00	8.00	3.00	11.00	19.00
Nat. NKE-9.3	Mr. Ham Laycheang	Site Supervisor-3 (Steung Saen)	30.00	30.00	19.94	3.00	22.94	7.06

Annex F: Gender Action Plan Monitoring

Gender Action Plan (GAP Activities, Indicators and Targets, Timeframe and Responsibility)	Progress to date – accumulated (as of June 2022)	Issues, Challenges & Comments
Output 1: Urban environmental infrastructure improved - Stueng Saen, Serei Saophan, Battambang		
Target 1: Free household sewer connections (including on-site plumbing) to a total of 2,540 ID Poor households including 700 FHH in the three participating towns (2018 baseline: 0). Responsibility: PIUs/Cities	Stueng Saen Not yet due: Q4 2023 Works contract signed – July 2020 The bidding document requires free HH sewer connections for 2,550 HH in Stueng Saen. Contractor & Supervisor have jointly counted 1,350 HH and 16 poor HH in the service area. Target is included in the TOR for the NGO currently under contracting for IEC activities.	In Stueng Saen, the WW services will be extended to the service area, which by the design team was estimated to include 2,550 HH and following contracting counted to include 1,350 HH and 16 poor HH. The share of FHH and ID Poor HH will depend on the socio-economic situation of the service area. The service area covers parts of the 060306 Kampong Krabau, 060303 Kampong Roteh, and 060302 Kampong Thum Sangkats. The target is established for the three participating towns in combination.
	Serei Saophan Not yet due: Q4 2023 Works contract signed September 2021 The bidding document requires free HH sewer connections for 3700 HH in Serei Saophan. Target is included in the TOR for the NGO currently under contracting for IEC activities.	In Serei Saophan, the WW services will be extended to the service area, which by the design team was estimated to include 3,700 HH. The share of FHH and ID Poor HH will depend on the socio-economic situation of the service area. The service area covers parts of the 10608 Tuek Thla, 10607 Preah Ponlea, 10602 Kampong Svay, and 10605 Ou Ambel Sangkats. The target is established for the three participating towns in combination.
	Battambang Not yet due: Q4 2023 Works contract signed August 2020 The bidding document requires free HH sewer connections for 5,180 HH in Battambang.	The WW services will be extended to the service area, which by the design team was estimated to include 5,180 HH and following contracting counted to include 5,226 HH and 193 poor HH. The share of FHH and ID Poor HH will depend on the socio-economic situation of the service area. The service area covers nearly the entire 20302 Prek Preah Sdach, most of the 20303 Rohanak, and

	Contractor & Supervisor have jointly counted 5,226 HH and 193 poor HH in the service area. Target is included in the TOR for the NGO currently under contracting for IEC activities.	smaller parts of the 20801 Anlong Vil, 20809 Ou Dambang Pir, 20808 Ou Danbang Muoy Sangkats. Based on the Commune Database, 2018 020302 Sangkat Preaek Preah Sdach had 503 FHH and 020303 Sangkat Rotanak had 474 FHH. The target is established for the three participating towns in combination.
Target 2: Improved toilets provided free of charge to a total of 760 ID Poor 1 and 2 (2018 baseline: 0) including 100 FHH in the three participating towns. Responsibility: PIUs/Cities	Stueng Saen Not yet due: Q4 2023 Bidding document requires improved toilets to 190 poor HH in Stueng Saen. Target is included in the TOR for the NGO currently under contracting for IEC activities.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.
	Serei Saophan Not yet due: Q4 2023 Bidding document requires improved toilets to 190 poor HH in Serei Saophan. Target is included in the TOR for the NGO currently under contracting for IEC activities.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.
	Battambang Not yet due: Q4 2023 Bidding document requires improved toilets to 400 poor HH in Battambang. Target is included in the TOR for the NGO currently under contracting for IEC activities.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.
Target 3: 30% of staff employed in operation and maintenance are women (baseline 2016: 0).	Not yet due: Q4 2023	The employing organisations to be assigned responsibility for the target. PMC to obtain and review baseline in operating companies.

Responsibility: PIUs/Cities/organizations, incl. Landfill operation, waste collection operation, and the urban service unit		Include 30% of women in the training invitation for O&M staff to ensure target can be met.
Output 2: Improved institutional effectiveness		
Target 4: 25 government staff (including 10 women) reporting increased knowledge on urban service delivery, O&M of urban facilities, and PPP and other institutional arrangements (2018 baseline: 0) Responsibility: PMU/PIUs	Not yet due: Q4 2023	Pre- and post-training questionnaires will be distributed in coordination with the Capacity Development and Training Specialist. Number of women participating in each training or workshops to be included in the invitation letters.
Target 5: Women's representation in PMU/PIU's decision-making and technical positions for: PMU: 30% (2018: 20%); PIU Stueng Saen 30% (2018: 23%); PIU Serei Saophoan: 30% (2018: 24%) Responsibility: PMU/PIUs	Staff lists and gender lists have been collected by the PMC from the PMU and PIUs. During June 2022 ADB mission, the EA agreed to increase number of women in PMU and PIUs to reach targets. Current representation is as follows: PMU: 2 of 10 (20% versus a target of 30%) PIU Stueng Saen (Kompong Thom Province): 1 of 9 (11% versus a target of 30%) PIU Serei Saophoan (Banteay Mean Chey Province): 2 of 9 (22% versus a target of 30%) PIU Battambang: 3 of 9 (33% versus no target)	PMU and PIUs are already established. PIUs are composed of members from PDPWT, municipalities, and provincial local administration staff. Gender ratio of members reflects those of the organizations these are appointed from. Targets to be discussed at GAP orientation.
Output 3: Improved policy and planning environment		
Action 1: Road map for financial sustainability (including tariff road map) developed between MPWT and three provincial governments, with consultation from MEF, MIH, MOWA, MRD and other relevant agencies (2018 baseline: N/A) Responsibility: PMU/PIUs	Not yet due: Q4 2022 The road map is under preparation by the financial specialist.	
Action 2: Urban development strategy and master plan, with climate resilience and gender responsive measures,	Not yet due: Q4 2022 Land Use Master Plans (LUMP) under preparation for Stueng Saen and Serei	Scope has changed to Land Use Master Plans (LUMP), while Battambang town has prepared the LUMP. Therefore, action is proposed changed to: "Land Use Master Plan with climate resilience and gender responsive measures, developed and

developed and approved in all three cities. (2018 baseline: N/A) Responsibility: MLMUPLC/PMC	Saophan. The LUMPs cover disaster risk reduction and climate change adaption and accessibility. The LUMPs map accessibility to social infrastructure including health and education as basis for development strategies for social and cultural facilities. Gender-balance in meetings & workshop in Serei Saophan, Banteay Meanchey (TS-2) related to LUMP and PSP: 04-Aug 2020: 1 F of 19, 5% 26-Nov 2020: 6 F of 66, 9% 03-Dec 2021: 15 F 85, 18%	approved in Stueng Saen and Serei Saophan". Change of action will be considered at MTR. During June 2022 ADB mission, the EA agreed to include gender issues section in situational analysis and gender responsive measures in the strategies and action plan of LUMP of both cities by 30 September 2022. The Provincial Department of Land Management, Urban Planning, Construction, and Cadastre (PDLMUPCC) determines the participants of stakeholder meetings based on their positions as government officials. The PDLMUPCC has been explained the targets of the GAP and suggested to increase female participants by inviting NGOs and CSOs, including women's groups and private sector. The PDLMUPCC has stated that they will try to increase the number of female participants. NGO involvement not planed; responsibility changed to PMC in cooperation with the Ministry of Planning
Target 6: At least 81 schools (50% boys and 50% girls) informed on the benefits of proper sanitation, safe disposal of waste, and menstrual hygiene (2018 baseline: 0). Responsibility: PIUs/Cities/NGO	Not yet due: Q4 2022 Target is included in the TOR for the NGO currently under contracting for IEC activities.	The IEC information campaign to be conducted by the NGO will include schools in the service areas.

Annex G: Procurement Plan

TS2 PROCUREMENT PLAN

Basic Data

Project Name: Second Urban Environmental Management in the Tonle Sap Basin Project	
Project Number: 50102-002	Approval Number: 3684/0591
Country: Cambodia	Executing Agency: Ministry of Public Works and Transport
Project Procurement Risk: High	Implementing Agency: N/A
Project Financing Amount: US\$ 97,700,000 ADB Financing: US\$ 89,000,000 Cofinancing (ADB Administered): Non-ADB Financing: US\$ 8,700,000	Project Closing Date: 30 June 2024
Date of First Procurement Plan: 14 April 2018	Date of this Procurement Plan: 10 August 2020 Version 1
Advance Contracting: No	e-GP: No

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding for Goods	US\$ 1,000,000 and Above	Prior. All bid documents, evaluations and contracts.
National Competitive Bidding for Goods	Between US\$ 100,000 and US\$ 999,999	Prior/post. Prior review for first set of bid documents for EA and post review for succeeding packages.
Shopping for Goods	Up to US\$ 99,999	3 quotations required
International Competitive Bidding for Works	US\$ 3,000,000 and Above	Prior. All bid documents, evaluations and contracts.
National Competitive Bidding for Works	Between US\$ 100,000 and US\$ 2,999,999	Prior/post. Prior review for first set of bid documents for EA and post review for succeeding packages.
Shopping for Works	Up to US\$ 99,999	3 quotations required
Others for Works	Up to US\$ 119,999	Works Contracts for Community-driven Environmental Improvements; NCB/Shopping

Consulting Services	
Method	Comments
Quality- and Cost-Based Selection for Consulting Firm	Prior. Request for proposal, evaluations and contracts.
Quality-Based Selection for Consulting Firm	Prior. Request for proposal, evaluations and contracts.
Consultant's Qualification Selection for Consulting Firm	Prior. Request for proposal, evaluations and contracts.
Individual Consultant Selection for Individual Consultant	Prior. Request for proposal, evaluations and contracts.

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Procurement Method	Review (Prior/Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
CW01	Wastewater/Drainage in Stueng Saen and Battambang	37,488,000.00	ICB	Prior	1S1E	Q3 / 2019	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Large Works
CW02	Wastewater and Drainage in Serei Saophoan	28,950,000.00	ICB	Prior	1S1E	Q3 / 2020	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Large Works
CW03a	Serei Saophoan Solid Waste Management	6,840,000.00	ICB	Prior	1S1E	Q3 / 2020	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works
CW03b	Stueng Saen Solid Waste Management	3,590,000.00	ICB	Prior	1S1E	Q3 / 2020	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works
CW03c	Battambang Solid Waste Management	7,810,000.00	ICB	Prior	1S1E	Q3 / 2020	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works

G02	Solid Waste Management equipment	2,370,000.00	ICB	Prior	1S1E	Q4 / 2021	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods
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3. Consulting Services Contracts Estimated to Cost \$100,000 or More

The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
None							

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

The following table lists smaller-value goods, works and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
G03	Office Equipment	50,000.00	1	Shopping	Prior		Q3 / 2020	

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
CS02	Social Development and Gender Specialist	90,000.00	1	ICS	Prior	Q3 / 2020		Assignment : National Expertise: Social and gender
CS05	Project Accountant	40,000.00	1	ICS	Prior	Q3 / 2020		Assignment : National Expertise: Accounting

B. Indicative List of Packages Required Under the Project

The following table provides an indicative list of goods, works and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Comments
None							

Consulting Services							
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/Post)	Type of Proposal	Comments
None							

C. List of Awarded and On-going, and Completed Contracts

The following tables list the awarded and on-going contracts, and completed contracts.

1. Awarded and Ongoing Contracts

Goods and Works							
Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
G01	Vehicles	160,000.00	161,400.00	NCB	Q1 / 2019	28-MAY-19	

Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CS01	Project Management Consultants	5,650,000.00	5,412,472.77	QCBS	Q2 / 2018	02-MAY-19	
CS03	Environment Safeguard Specialist	80,000.00	80,000.00	ICS	Q4 / 2019	05-MAY-20	
CS04	Social Safeguard Specialist	80,000.00	80,000.00	ICS	Q4 / 2019	19-MAY-20	

D. National Competitive Bidding

A. Regulation and Reference Documents

1. The procedures to be followed for national competitive bidding shall be those set forth for the “National Competitive Bidding” method in the Government’s Procurement Manual issued under Sub-Decree Number 74 ANKR.BK, updated version dated 22 May 2012 with the clarifications and modifications described in the following paragraphs. These clarifications and modifications are required for compliance with the provisions of the Procurement Guidelines.

2. For the procurement of ADB financed contracts under National Competitive Bidding (NCB) procedures, the use of harmonized national bidding documents (NCB and National Shopping) developed in consultation with development partners including ADB, is mandatory except where the Government and ADB have agreed to amendments to any part of the documents. The Procurement Manual also advises users to check the ADB website from time to time for any update on ADB documents, which form the basis, among others, of the existing harmonized national bidding documents.

B. Procurement Procedures

1. Application

3. Contract packages subject to National Competitive Bidding procedures will be those identified as such in the project Procurement Plan. Any change to the mode of procurement of any procurement package in the Procurement Plan shall be made through updating of the Procurement Plan, and only with prior approval of ADB.

2. Sanctioning

4. Bidders shall not be declared ineligible or prohibited from bidding on the basis of barring procedures or sanction lists, except individuals and firms sanctioned by ADB, without prior approval of ADB.

3. Rejection of all Bids and Rebidding

5. The Borrower shall not reject all bids and solicit new bids without ADB's prior concurrence. Even when only one or a few bids is/are submitted, the bidding process may still be considered valid if the bid was satisfactorily advertised and prices are reasonable in comparison to market values.

4. Advertising

6. Bidding of NCB contracts shall be advertised on the ADB website via the posting of the Procurement Plan. Borrowers have the option of requesting ADB to post specific notices in the ADB website.

C. Bidding Documents

5. Use of Bidding Documents

7. The Standard National Competitive Bidding Documents provided with the Government's Procurement Manual shall be used to the extent possible both for the master bidding documents and the contract-specific bidding documents. The English language version of the procurement documents shall be submitted for ADB review and approval in accordance with agreed review procedures (post and prior review) as indicated in the Procurement Plan. The ADB-approved procurement documents will then be used as a model for all procurement financed by ADB for the project.

6. Bid Evaluation

8. Bidders shall not be eliminated from detailed evaluation on the basis of minor, non-

substantial deviations.

9. A bidder shall not be required, as a condition for award of contract, to undertake obligations not specified in the bidding documents or otherwise to modify the bid as originally submitted.

7. Employer's Right to Accept or Reject Any or All Bids

10. The decision of the Employer to accept or reject any or all bids shall be made in a transparent manner and involve an obligation to inform of the grounds for the decision through the bid evaluation report.

8. ADB Policy Clauses

11. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.

12. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the Borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question.

13. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, ADB-financed contract.

Annex H: Compliance with Loan and Grant Covenants

Update 30 June 2022

	Para No.	Description	Type	Status
Schedule 5	2	<u>Environment</u>	Safeguards	Being complied
		The Borrower shall 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 each IEE, each EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.		
Schedule 5	3	The Borrower shall ensure that prior to mobilization for civil works under the Project: (a) project-specific Environmental Safeguards grievance redress mechanism, acceptable to ADB, is established in accordance with the provisions of the EMPs, to consider Environmental Safeguards complaints; and (b) a local level grievance redress mechanism is established and a task force is functioning effectively to (i) review and document eligible complaints of Project stakeholders; (ii) proactively address grievances; (iii) provide the complainants with notice of the chosen mechanism; (iv) prepare periodic reports to summarize (A) the number and types of complaints received and resolved at all levels; (B) chosen actions and time required for resolution; and (C) final outcomes of the grievances; and (v) make the reports available to ADB as part of the regular Project Progress Reports and Environmental Safeguards Monitoring Reports	Safeguards	Being complied
Schedule 5	4	<u>Involuntary Resettlement</u>	Safeguards	Being complied
		The Borrower shall ensure that all land and all rights-of-way required for the Project and all Project facilities 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 (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the Involuntary Resettlement Safeguards; and (c) all measures and requirements set forth in the RF, each RP and any corrective or preventative actions set forth in the Safeguards Monitoring Report.		

Schedule 5	5	Without limiting the application of the Involuntary Resettlement Safeguards or an RP, the Borrower shall ensure that no physical or economic displacement takes place in connection with the Project until: (a) compensation and other entitlements, as relevant, have been provided to affected people in accordance with the RP; and (b) a comprehensive income and livelihood restoration program has been established in accordance with the RP.	Safeguards	Not complied
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Schedule	Para No.	Description	Type	Status
Schedule 5	6	The Borrower shall ensure that: (a) no land for the Project is acquired through voluntary land donation, and (b) if any land is acquired through negotiated settlement, the Borrower shall employ a third party to independently verify that (i) consultations with landowners have been undertaken meaningfully, freely and in good faith and the landowners have made informed decisions on use of land, and (ii) terms and conditions of the agreements have been explained and have been understood and agreed by the landowners, all in accordance with the requirements in the RF.	Safeguards	Being complied
Schedule 5	7	The Borrower shall ensure that prior to any land acquisition under the Project: (a) a safeguards grievance redress mechanism, acceptable to ADB, is established in accordance with the provisions of the RF, to consider Involuntary Resettlement Safeguards complaints; and (b) a local level grievance redress mechanism is established and a task force is functioning effectively to (i) review and document eligible complaints of Project stakeholders; (ii) proactively address grievances; (iii) provide the complainants with notice of the decisions made; (iv) prepare periodic reports to summarize (A) the number and types of complaints received and resolved at all levels; (B) chosen actions and time required for resolution; and (C) final outcomes of the grievances; and (v) make the reports available to ADB as part of the regular Safeguards Monitoring Reports. For the purpose of this provision, eligible complaints include those related to resettlement planning and implementation.	Safeguards	Being complied
Schedule 5	8	<u>Indigenous Peoples</u>	Safeguards	Being complied
		The Borrower shall ensure that the preparation, design, construction, implementation and operation of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to indigenous people; (b) the Indigenous Peoples Safeguards; and (c) all measures and requirements set forth in the IPPF and any indigenous peoples plan, which shall be prepared in case of any impacts observed during implementation, and any corrective or preventative actions set for the in a Safeguards Monitoring Report.		
Schedule 5	9	<u>Human and Financial Resources to Implement Safeguards Requirements</u> The Borrower shall make available necessary budgetary and human resources to fully implement any EMP and any RP.	Safeguards	Being complied
Schedule 5	10	<u>Safeguards – Related Provisions in Bidding Documents and Works Contracts</u> The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures relevant to the contractor	Safeguards	Being complied

		set forth in the IEE, the EMP, and RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (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 IEE, the EMP, and RP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.		
Schedule	Para No.	Description	Type	Status
		The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures relevant to the contractor set forth in the IEE, the EMP, and RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (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 IEE, the EMP, and RP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.		
Schedule 5	11	<u>Safeguards Monitoring and Reporting</u> <u>The Borrower shall do the following:</u> (a) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) 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 IEE, the EMP, and the RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan in accordance with the SPS; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP and RP promptly after becoming aware of the breach.	Safeguards	Being complied

Schedule 5	12	<u>Prohibited List of Investments</u> 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.	Safeguards	Being complied
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Schedule	Para No.	Description	Type	Status
Schedule 5	13	<u>Labor Standards, Health and Safety</u> The Borrower shall ensure that the core labor standards and its applicable laws and regulations are complied with during Project implementation. The Borrower shall include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among others, (a) comply with all applicable labor laws and regulations of the Borrower; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) do not restrict the workers from developing a legally permissible means of expressing their grievances and protecting their rights regarding working conditions and terms of employment; and (f) disseminate information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project areas, particularly women. The Borrower shall strictly monitor compliance with the requirements set forth in this paragraph and provide ADB with regular reports.	Safeguards	Being complied
Schedule 5	14	<u>Gender Action Plan</u> The Borrower shall 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 using ADB's template; and (e) key gender output targets are monitored regularly and achieved.	Others	Being complied
Schedule 5	15	<u>Financial Sustainability and Operation and Maintenance Expenditure</u> The Borrower shall cause the Project Executing Agency and the relevant implementing agency to (a) develop a financial sustainability road map (including tariff-setting and collection, public private partnership, budget allocation and other gap-filling measure) for operation and maintenance of the wastewater and solid waste components in each city by the mid-term review of the Project; and (b) set up an appropriate institutional framework or service unit, as applicable, such that the financial sustainability arrangement becomes effective prior to physical completion of the facilities.	Others/ Financial	Not be complied

Schedule 5	16	<u>Counterpart Support</u> The Borrower shall ensure that counterpart funds for the Project are available on time. In addition to the foregoing, the Borrower shall ensure that the Project Executing Agency has sufficient funds to finance any Works, Goods and Consulting Services contract.	Others	Being complied
Schedule 5	17	<u>Governance and Anticorruption</u> The Borrower 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.	Others	Being complied

Schedule	Para No.	Description	Type	Status
Schedule 5	18	The Borrower 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 agency and all contractors, suppliers, consultants, and other service providers as they relate to the Project.	Others	Being complied
Article IV	401	Section 4.01. In the carrying out of the Project and operation of the Project facilities, the Borrower shall perform, or cause to be performed, all obligations set forth in Schedule 5 to this Loan Agreement.	Technical	Being complied
Article IV	402	Section 4.02. (a) The Borrower shall cause the Project Executing Agency to (i) maintain separate accounts and records for the Project; (ii) prepare annual financial statements for the Project in accordance with financial reporting standards acceptable to ADB; (iii) have such financial statements audited annually by independent auditors whose qualifications, experience and terms of reference are acceptable to ADB, in accordance with auditing standards acceptable to ADB; (iv) as part of each such audit, have the auditors prepare a report, which includes the auditors' opinion(s) on the financial statements and the use of the Loan proceeds, and a management letter (which sets out the deficiencies in the internal control of the Project that were identified in the course of the audit, if any); and (v) furnish to ADB, no later than 6 months after the end of each related fiscal year, copies of such audited financial statements, audit report and management letter, all in the English language, and such other information concerning these documents and the audit thereof as ADB shall from time to time reasonably request.	Financials	Being complied
Article IV	402	(b) ADB shall disclose the annual audited financial statements for the Project and the opinion of the auditors on the financial statements within 14 days of the date of ADB's confirmation of their acceptability by posting them on ADB's website.	Financials	Being complied
Article IV	402	(c) The Borrower shall enable ADB, upon ADB's request, to discuss the financial statements for the Project and the Borrower's financial affairs where they relate to the Project with the auditors appointed pursuant to subsection (a)(iii) hereinabove, and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB. This is provided that such discussions shall be conducted only in the presence of an authorized officer of the Borrower, unless the Borrower shall otherwise agree.	Financials	To be complied
Article IV	403	Section 4.03. The Borrower shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Financials	Being complied

Annex I: Financial Management Action Plan

Risk description	Impact	Likelihood	Overall Risk Assessment	Mitigation measures/ Responsibility	Timeline	Status As of Q1 2022
Inherent Risk						
The Standard Operating Procedure for externally financed projects in Cambodia (May 2012) stipulates that assets must be subject to careful asset management, but in practice there is no regular monitoring/ inventory. There is a risk of loss of asset due to poor maintenance.	High	Likely	Substantial	-Update Fixed Asset Book every year during and after project implementation.	Within months after the end of each fiscal year.	PMU prepared the fixed Asset Book when the project equipment was purchased in 2020. The asset list was counted and verified once in 2020 as stated in FMM.
				- Train government staff in fixed asset management including linkage to asset preventive maintenance activities.		The government staff were trained on the updated FMM (2019) including asset management in various groups by MEF in later 2019 and early 2020.
Total Inherent Risk			Substantial			
Control Risk						
Internal audit–Lack of internal audit system in the provincial governments and DPWTs	Low	Likely	Moderate	- Strengthen external audit by MEF and MPWT/ PMU ensuring to engage the qualified auditor under the project.	- By Q4 2019	The external audit is selected based procurement procedures by MEF (This can be confirmed by MEF)

Risk description	Impact	Likelihood	Overall Risk Assessment	Mitigation measures/ Responsibility	Timeline	Status As of Q1 2022
				- External audit will be in accordance with international auditing standards.	- Throughout the project	Being complied with; acceptable APFS for FY 2018-2020 were submitted timely to ADB
DPWT/PIU staff lack training on ADB disbursement and reporting procedure	Low	Likely	Moderate	- Sub-accounts will not be established at the start of the project but may be established in the future once PIUs have been assessed to have sufficient capacity. The PMU will use a project financial management system developed under previous ADB projects and will be responsible for all procurement. The PMC will build capacity at the PIUs.	- By Q4 2019	The PMU has developed a project financial management system which is effectively functioned since the start of the project.
Information systems– Improper record keeping or mistakes because of the excel-based financial management system in the provincial governments and DPWTs	Low	Likely	Moderate	- MEF and MPWT/PMU ensure to engage the qualified audit company under the project	- By Q4 2019	Complied with; engaged a qualified audit company under the project

Risk description	Impact	Likelihood	Overall Risk Assessment	Mitigation measures/ Responsibility	Timeline	Status As of Q1 2022
				- PMU and PIUs will undertake regular backups of all financial, accounting and project related data and appropriate security measures over backed-up data shall be in place.	-Throughout the project	PMU undertakes regular backups of all financial, accounting and project related data and appropriate security measures over backed-up data in external HD which is kept in the safe.
Total Control Risk			Moderate			
Overall Risk			Moderate			

Annex J: Works Progress Pictures

Pictures end of June 2022 (TS2)

Construction of Stueng Saen Wastewater and Drainage Sub Project (Lot.1)

View from drone on the Wastewater Treatment Plant and access road



The activities of the welding HDPE force main pipe and CCTV test tertiary sewer line

The activities of U-drain concrete casting and Corrugate pipe installation



Construction of Battambang Wastewater and Drainage Sub Project (Lot.2)

View from drone for Wastewater Treatment Plant



The activities of main force pipe installation and manhole installation



The activities of casting concrete of stair on facultative pond and access road



Construction of Battambang Solid Waste Management Sub-project

View from drone on the Landfill site



PMU, PIU, PMC site visited at the Landfill site when ADB Mission Review



Construction of Steung Saen Solid Waste Management Sub-project

View from drone of the activities on the Landfill



The activities of construction car washing and compaction the internal road



The activities of construction weight bridge and Material Recovery Facilities building



Construction of Serey Saophoan Wastewater and Drainage Sub Project

View from drone on the Wastewater Treatment Plant



The activities of checking invert level and field density test the layer of embankment for access road



The activities of inspection rebar for U-drain & meeting and sign agreement with households connection

