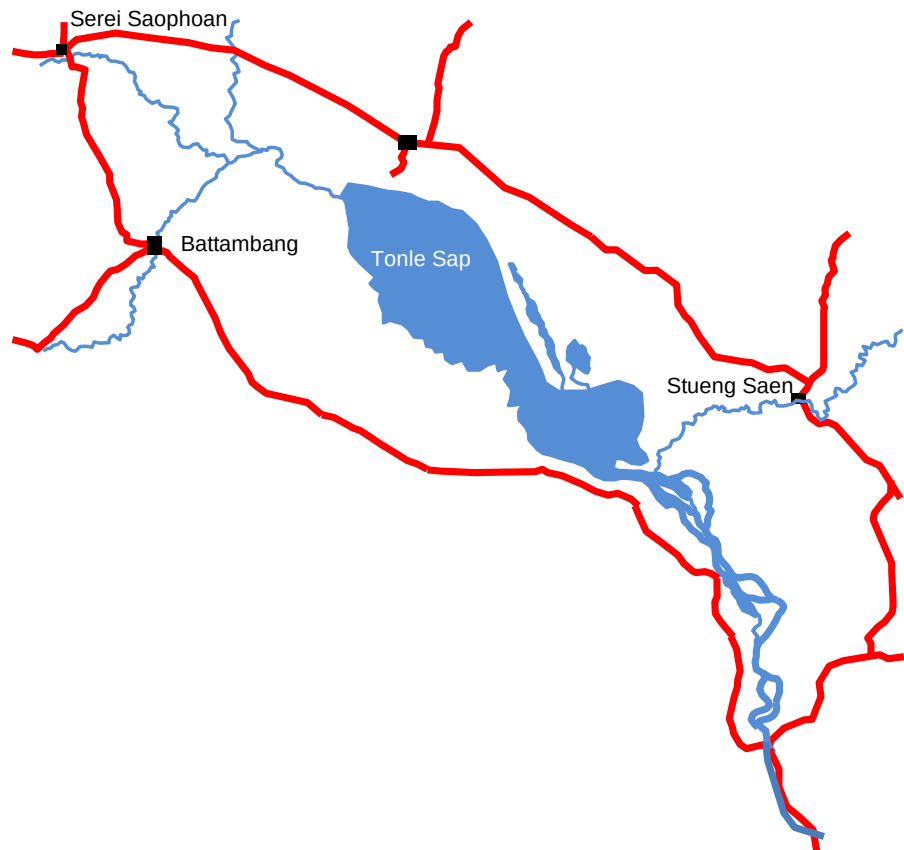




Ministry of Public Works and Transport
The Kingdom of Cambodia

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



Quarterly Report
Quarter 4, 2021
October to December



Document Control Sheet

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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
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 4, 2021 (October 1 to December 31).

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:	May 2021 (Special Project Administration Mission – Virtual)

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 31st of December 2021, the contract awards amount to a total of **\$75,695,562** and to date disbursements total **\$20,330,162**.

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

As of 31 Dec 2021						
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	68,514,501	19,215,499	17,853,403	69,876,597	50,661,098
Grant 0591	1,270,000	1,270,000	-	1,270,000	-	-
Government	8,700,000	5,911,061	2,788,939	1,206,759	4,704,302	2,788,939
Total	97,700,000	75,695,562	22,004,438	20,330,162	74,580,899	53,450,037

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

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	63,902,073	3,837,927	15,877,236	51,862,764	48,024,836	94%	23%
GOODS AND EQUIPMENT	2,370,000	161,400	2,208,600	161,400	2,208,600	-	7%	7%
CONSULTING SERVICES	5,660,000	5,613,173	46,827	2,681,754	2,978,246	2,931,418	99%	47%
INCRE. ADM. COST	750,000	107,855	642,145	91,391	658,609	16,464	14%	12%
INTEREST CHARGE	2,460,000	-	2,460,000	58,621	2,401,379	-	0%	2%
UNALLOCATED	10,020,000	-	10,020,000	-	10,020,000	-	0%	0%
ADVANCE ACCOUNT			-	253,000	(253,000)			
			-		-	-		
Total	89,000,000	69,784,501	19,215,499	19,123,403	69,876,597	50,972,719	78%	21%

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	62,632,073	3,837,927	14,607,236	51,862,764	48,024,836
GOODS AND EQUIPMENT	2,370,000	161,400	2,208,600	161,400	2,208,600	-
CONSULTING SERVICES	5,660,000	5,613,173	46,827	2,681,754	2,978,246	2,931,418
INCRE. ADM. COST	750,000	107,855	642,145	91,391	658,609	16,464
INTEREST CHARGE	2,460,000	-	2,460,000	58,621	2,401,379	-
UNALLOCATED	10,020,000	-	10,020,000	-	10,020,000	-
ADVANCE ACCOUNT	-	-	-	253,000	(253,000)	
Total	87,730,000	68,514,501	19,215,499	17,853,403	69,876,597	50,972,719

Table 2.4 Awards and Disbursements Status, Grant 0591

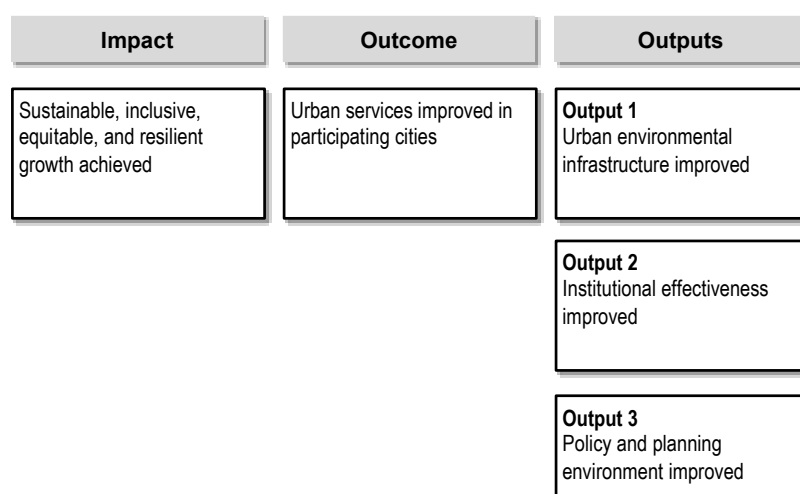
Fund	Allocation	Contracts Awarded	Uncontracted Loan/Grant Balance	Contracts Disbursed	Undisbursed Loan/Grant Balance	Undisbursed Contract Balance
	A	B	C = A-B	D	E = A-D	F = B-D
Works	1,270,000	1,270,000	-	1,270,000	-	-
						-
Total	1,270,000	1,270,000	-	1,270,000	-	-

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 Stueng 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. Social safeguards review and associated documentation has been conducted for all of the variation orders (VOs) processed so far for the on-going construction, except BTB WWTP VO1, for which a DDR is being

finalized. The General Department of Resettlement (GDR) completed compensation payments for Serei Saophoan, and also Individual Temporary Relocation Plans (ITRP) were done with all the impacted businesses. Compensation process for all other subprojects is fully completed as reported by GDR in semi-annual monitoring report in August 2021. Serei Saophoan WWTP subproject encumbered zones with compensation payments will be handed over to contractor once SSMR with ITRPs have been cleared.

- 13 In the reporting period, PMC has disclosed updated PIBs for all subprojects and completed social safeguards training to all contractors and PIUs, and during construction continue 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	▪ Finalize DDR for VO1/WWTP access road ▪ Consult market vendors prior to night-time construction at market area*	▪ 28/02/22 ▪ 30/06/22
	Solid waste management	▪ None	▪ None	▪ n/a
Serei Saophoan	Wastewater & Drainage	▪ None	▪ PIU to conduct site clearance of WWTP site ▪ Contractor to finalize pre-construction safeguards activities ▪ GDR hand over for red zones and ADG clearance of ITRP (Within SSMR) ▪ Provide temporary toilets for 3 AHs along railway* ▪ Consult market vendors prior to night-time construction at market area*	▪ 31/01/22 ▪ 28/02/22 ▪ 15/02/22 ▪ 30/06/22 ▪ 30/06/22
	Solid waste management	▪ Update design	▪ None	▪ n/a
Stueng Saen	Wastewater	▪ None	▪ ADB clearance of DDR/CAP VO2 and site hand over to contractor ▪ Consultation with market vendors and monitoring temporary market relocation* ▪ Social Audit for WWTP site (to be done by GDR & ADB)	▪ 31/01/22 ▪ 30/06/22 ▪ 30/03/22
	Solid waste management	▪ None	▪ None	▪ n/a

* As per construction schedule

3.3.2 Environment

- 14 The overall status of environmental safeguards is summarised in Tables 3.4 and 3.5.
- 15 Initial Environmental Examinations (IEEs) were prepared for all the subprojects during the PPTA activities. PMC tasks regarding IEEs and EMPs as per TOR are the following:
- Update/redraft IEEs based on the detailed engineering design and domestic IESAs
 - Conduct additional analysis and data collection to ensure the final IEEs comply with ADB Safeguards Policy (SPS, 2009);
- 16 Prepare contract specific EMPs and assist MPWT/PMU and/or attach to bidding documents for potential contractors.

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 on-going. IR impact letter for VO1-VO3 done.
	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. VO1 DDR being prepared, IR impact letter for VO2 done
Serei Saophoan	Landfill / B	Yes	Private	Requested	Yes	Distributed January 2021	Submitted	10 ha	DED update on-going for additional works	Nov-Dec.20	Nov-Dec.20	DRP approved Mar.21	Awaiting DED and bidding process. Access road compensated already by GDR, additional IR impact to be avoided in design
	Wastewater / B	Yes	Private	Requested	Yes	Update distributed in Aug 21	Submitted	24 ha	Yes, including adjusted COI				Construction on-going. Contractor safeguards training done. Individual relocation plan to be done.
Stung Saen	Landfill / C	Yes	Private	Yes	Yes	Update distributed in Nov 21	Submitted	20 ha	Yes, with adjusted COI for access road	Mar.20	Mar.20	DDR approved Dec.20	Construction on-going. Borrow pit IR impact reviewed
	Wastewater / B	Yes	State 6 ha/Private 10 ha	Yes	Yes		Yes (14.3. 2019)	10 ha	Yes, with adjusted COI for access road. VO1-3 processed and VO4 prepared	11-12/2019 2-3/2020	Aug-Feb.20 / Mar.20	DRP approved Mar.20	Construction on-going. GDR to conduct social audit (20 AH at WWTP site). Consultation with market vendors to be done. DDR for VO1-VO3 done, VO4 to be prepared

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	
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 review and revisions to the design of the landfill
	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

- 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.

4 Implementation Progress

4.1 Project Organisation and Management

- 18 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).
- 19 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.
- 20 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.
- 21 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.
- 22 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

- 23 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 CTD4, 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 Old Landfills Remediation (TS2 nos.3 and CTD4)
<i>This</i>					

Quarter 4:	7	December 2021	In progress	nos. 3) Additional input and reallocation to home inputs experts Additional Supervision support Serei Saophoan Landfill additional surveys Kampong Cham Controlled landfill additional inputs; Master Plans LUMP and PSP translations.
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4.2 Progress Monitoring

- 24 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.
- 25 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	▪ By PPTA	▪ By PPTA	▪ Construction on-going ▪ VO1 + VO2 approved. VO3 being submitted to PMU and ADB	▪ Supervision needs to follow up ▪ Follow up VO3 approval	▪ PMC ▪ PIU & contractor ▪ PMU & ADB
CW01 Lot 2 Wastewater WWTP, sewers	Battambang	▪ Yes	▪ By PPTA	▪ By PPTA	▪ Construction on-going ▪ VO1 + VO2 approved.	▪ Supervision need to follow up ▪ Revise construction schedule	▪ PMC ▪ PIU & contract
CW02 Wastewater & Drainage WWTP, sewers, drains	Serei Saophoan	▪ MOE 11.2.20	▪ Yes	▪ Yes	▪ Construction on-going in Green zones ▪ Compensation on-going	▪ Supervision need to follow up ▪ Follow up compensation	▪ PMC ▪ PIU & contractor ▪ GDR
CW03a Landfill	Serei Saophoan	▪ 14 Oct 2019	▪ Yes	▪ Yes	▪ Draft DED on on-going	▪ Ongoing preparation of risk analysis and DED	▪ PMC
CW03b Landfill	Stueng Saen	▪ 12 Oct 2020	▪ Yes	▪ Yes	▪ Construction on-going	▪ Supervision need to follow up ▪ Follow up VO3 approval	▪ PMC ▪ PIU and contractor ▪
CW03c Landfill	Battambang	▪ MOE 13.2.20	▪ Yes	▪ Yes	▪ Construction on-going ▪ VO1 + VO2 approved. VO3 being submitted to PMU and ADB	▪ Supervision need to follow up ▪ Follow up VO3 approval	▪ PMU, ADB, PMC ▪ PMU & ADB
G02 Landfill equipment	Battambang Serei Saophoan Stueng Saen		▪	▪	▪ Equipment report submitted to PMU	▪	▪

2. PROVINCIAL PLANS AND LAND USE MASTER PLANS.

Output/Activity	Location/Coverage	Status	Next Steps	Action By
TS2				
Provincial spatial plan	Banteay Meanchey	- Workshop on November 26, 2020 - Vision Seminar held on December 25, 2020 - Draft PSP (English) submitted in November 2021 - Final Workshop on Draft PSP on December 3, 2021	Draft PSP (Khmer) submission	PMC
LUMP	Serei Saophoan	- Workshop on November 26, 2020 - Vision Seminar on December 25, 2020 - Draft PSP (English) submitted in October 2021 - Final Workshop on Draft LUMP on December 3, 2021	Draft LUMP (Khmer) submission	PMC
LUMP	Stueng Saen	Kick-Off Meeting held on July 16, 2021	- Situation Analysis Report (January 2022) - Draft LUMP 1st Workshop (February 2022)	PMC

3. OTHER ACTIVITIES.

Item	Status	Action Required	Action By
IEC	First request for proposals rejected by NGOs due to much too low available budget: no responses. Second round with no budget limit: 4 NGOs submitted a proposal 17 December 2021. January 2022 these proposals are under evaluation.	Selection of NGO, approval and contracting expected February 2022.	PMC and PMU
Capacity Building	- Training needs assessment done - First training planned in February/ March 2022 – depending on Covid-19 situation	Training planned.	PMC

4.3 Implementation Activities

4.3.1 Consultant Team

- 26 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
Finance and Institutional Specialist	Alice Thauvin
Urban Development Specialist	Howard Trett
Urban and Regional Planner	Hisako Kobayashi
Urban and Regional Economist	Manabu Fujikawa
Urban Planner	Tomoki Fukunaga
Solid Waste Expert	Steven Long
Social and Gender Expert	Alexander Timmermann
Environmental Safeguards Expert	Peter Gammelgaard Jensen
Capacity Development and Training Specialist	Richard Pope
National	
National Deputy Team Leader	Ho Ratha
National Deputy Team Leader	Ly Nara
Environmental Safeguard Specialist	Yim Chamnan
Sanitation Engineer	Va Vandith
Legal/ PPP Expert	Tan Try
Institutional Development Specialist	Chheav Nak
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

- 27 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

- 28 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 ongoing; Contractor is ahead of schedule. - VOs submitted for change in scope
	<i>Serei Saophoan – Wastewater:</i>
	Contract awarded and Contractor commenced with processing the required documents, shop drawings and some works implementation;
	<i>Serei Saophoan – Solid Waste Management:</i>
Output 2: Institutional Effectiveness Improved	- Soil Investigations, surveys and wall stability assessment finished in December 2021. - Start of draft design and DED in January 2022.
	<i>Stueng Saen – Wastewater:</i>
	- Contractor commenced with processing the required documents and some works implementation. - VO submitted for additional works
	<i>Stueng Saen – Solid Waste Management:</i>
	- Construction works ongoing; Contractor is on schedule. - VOs submitted for change in scope
	<i>Battambang, Serei Saophoan, Stueng Saen – Landfill Equipment:</i>
	- Draft Equipment and Machinery Report submitted in December 2021. - Presentation of Report planned at first week January 2022.
Output 3: Policy and Planning Environment Improved	<i>Semi-autonomous Urban Service Units:</i>
	New Legal Framework for USUs has been changed to Municipalities responsibilities.
Output 3: Policy and Planning Environment Improved	<i>Training Government Staff:</i>
	Planned training first quarter 2022 depending on Covid restrictions in place.
	<i>Roadmap for Financial Sustainability:</i>
Output 3: Policy and Planning Environment Improved	Texts relating to public budgeting, and the financing of public urban sanitation services have been analysed. Collection of more secondary data by the National Institutional Expert will start in January 2022.
	<i>Urban Development Strategies and Master Plans:</i>
Output 3: Policy and Planning Environment Improved	- Banteay Meanchey Draft PSP 2040 (provincial special plan) has been submitted November 2021. Final Workshop on Draft PSP was conducted on December 3, 2021 - Serei Saophoan Land Use Master Plan (LUMP): Final Workshop on Draft LUMP was conducted on December 3, 2021 - Stueng Saen Land Use Master Plan – Situation Analysis Report submission planned January 2022 and Draft LUMP under preparation. 1st Workshop planned February 2022.

4.3.4 Meetings

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

4.4 Project Costs

30 Estimates of sub-project costs are shown in Table 4.5.

Table 4.5 Current Estimates of Sub-project Costs

Contract No.	Sub-Project	Contract mUSD	Source	Procurement Plan (10 Aug 2020)	Difference mUSD
CW01	Lot 2: Battambang WWTP and sewerage	21.72	Signed contract value	37.49 *	- 3.01
	Lot 1: Stueng Saen WWTP, sewerage & drainage	12.76	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 similar landfill sites constructions	6.84	0 ***
CW03b	Stueng Saen Landfill	4.09	Signed contract value	3.59	+ 0.50
CW03c	Battambang Landfill	5.34	Signed contract value	7.81	- 2.47
G02	Battambang, Serei Saophoan, Stueng Saen Landfill equipment	2.37	Procurement Plan	2.37	0 ***
	Total for civil works and equipment	\$75.61		\$87.05	- \$11.44

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

** Actual cost to be significantly higher than PPTA estimate (\$2.88 m)

*** Expected costs similar procurement plan.

- 31 As can be seen in Table 4.5, the current total estimate for civil works and equipment is around \$11.44m under the amount in the latest procurement plan. However, the final value will be higher than the current estimate as described below.
- 32 The above indicated estimates include only the signed contract values for five of the six civil works contracts. 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.
- 33 As noted in Table 4.5, the current estimate for Serei Saophoan landfill from the PPTA is much too low. An adjusted more realistic estimate has been included in the table. The site is a difficult one and the actual value is expected to be similar or higher than the amount in the Procurement Plan.

4.5 Procurement

4.5.1 Procurement Plan

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

4.5.2 Procurement of Civil Works and Equipment

- 35 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)	Contract Value (USD)	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							
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	Soldi Waste Management Equipment	2.37		NCB	Goods	Prior							

4.6 Provincial Planning and Municipality Planning

4.6.1 Activities

36 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> - Workshop on November 26, 2020 - Vision Seminar held on December 25, 2020 - Draft PSP (English) submitted in November 2021 - Final Workshop on Draft PSP on December 3, 2021
Output 2: Formulation of Land Use Master Plan	<i>Sarei Saophoan:</i> - Draft PSP (English) submitted in October 2021 - Final Workshop on Draft LUMP on December 3, 2021 <i>Stueng Saen:</i> - Preparation ongoing draft LUMP - On-line meetings with the municipality and provincial departments were conducted. - Situation Analysis Report (January 2022)

5 Compliance with Covenants

37 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

38 The Covid-19 pandemic has a significant impact on project operations and progress.

39 **Recommended Actions:** The Covid situation is being constantly monitored in Cambodia and overseas. Discussions will continue to be held with PMU in order to agree a safe and pragmatic approach to project progress.

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

41 Further it should be noted that several works have been impeded by heavy rainfall during the wet season (from August till end October/ beginning of November each year). This has caused delays in construction works esp. soil levelling and earthworks.

6.1.2 Lot 1: Stueng Saen Wastewater

42 The Contractor is behind schedule – planned progress at the end of December 2021 is 32.47%, whereas actual progress is 25.00%. The main reasons for the delay are difficult soft soil conditions, works vicinity to private fences/walls and the long period with heavy rains. The contractor has increased number of staff and equipment in the pursuit of reducing the delay.

- 43 Status of all Variation Orders till the end of this reporting period are indicated below.
- 44 Variation order No 1: Approved and financially covered by the contingency, therefore no changes in the total Contract Value.
- 45 Variation Order No 2: Approved and financially covered by the rest of contingency and by increasing the Contract sum. See financial details in Table 6.1.
- 46 Variation Order No 3: The draft VO3 submitted to PMU. ADB has asked PMU/PMC to clarify whether there are resettlement and/or environmental issues. Communications between PMC and the contractor for the clarification are still on-going. The draft VO3 as submitted by PMU covers the following works:
- Reinforced Concrete Piles for Wastewater Treatment Buildings. The estimated cost of these works is US\$ 17,091.12.
 - Drainage Collection Systems: This variation covers various works required for proper functioning of the designed drainage system including an update on quantities and scope of works. The works required are earthworks, reinforced concrete works and reinstatement works. The main changes are as follows:
 - Increase length of 0.5m wide U-drains from 26.8km to 27.9km
 - Replace 100mm concrete cover with 150 mm thick concrete covers for U-drain which are located inside the carriage way under heavy traffic of 2,877 meters
 - Replace 100mm concrete cover with steel grating for U-drains crossing roads of 258m. to improve durability under heavy traffic and enhance run-off of surface water.
 - Removal of existing poor or non-functioning drainage structures of approx. 19 km as requested by the local authority and construct new U-drain at the same places.
 - Pavement repair and surface reinstatement as it was not included in the BOQ. The additional work consists of placing subbase and aggregate base course materials and covered by DBST approx. 5,500 sqm or 70mm thick Asphalt Concrete of approx. 512sqm.
 - Manhole site adjustment based on resurvey, 1.2m x 1.2m from 85 to 95 locations and 2m x 2m from 160 to 122 locations.
 - The cost for above indicated additional works of drainage and collection system is estimated at US\$ 1,050,948.63.
- 47 Construction of the additional works of variation order VO3 will increase the total contract price with US\$ 1,174,843.72 from US\$ 13,832,566.84 to US\$ 15,007,410.56 inclusive of Value Added Tax (VAT).
- 48 Variation Order No 4 is being prepared and will cover the following:
- Road Pavement Repair and Reinstatement of Sewer Line. Recalculation of quantities necessary to include increased width of reinstatement due to excavation with sheet piles (soft soils).
 - Covid 19 measures. Contractor's bid was submitted before the pandemic started; therefore, he could not have foreseen this extra cost.
 - Environmental measures required from VO3 - removal of existing Drainage: Crushing and separating rebar from concrete before disposal and Management of Wastewater.
 - PS1 and PS2 Sheet pile coffer dam, Retaining wall, Control room
 - New location of PS1 increasing Sewer pipe while reducing Force mains pipe, additional Culverts Near PS1.
 - Adjustment in final quantity for Corrugated Pipe (saving)
 - Additional U-drain with Cover 393m.
 - Drainage Outlets.
 - U-drains with depth more than 1.50m, 633 meters not included in BoQ.
- 49 The initial estimated cost for construction of the additional works of variation order VO4 is 1,4 mUS\$.
- 50 **Recommended Actions:** Finalizing budget for VO4 including environmental and safeguards review.

6.1.3 Lot 2: Battambang Wastewater

- 51 The Contractor is far behind schedule – planned progress at the end of December 2021 should be 23.88%, whereas actual progress is 13.13%. With Contractor's current pace of work activities, the construction works will not finish on time.

- 52 Status of all Variation Orders till the end of this reporting period is indicated below.
- 53 Variation Order No 1: Approved and financially covered partly by contingency and by increasing the Contract sum. See financial details in Table 6.1.
- 54 Variation Orders VO2 approved, covering the following issues which have been acknowledged by PMC for the determination of Variation Order:
- Earthworks in Wastewater Treatment Plant: USD 415,820.52. Requested by contractor with letter MTA-N203-021-G3150 and acknowledged with PMC letter LET-TS2-BB-DTL-MTA-0603
 - Length of Fence at WWTP: USD 18,283.00. Requested by contractor with letter MTA-N203-021-J3153 and acknowledged with PMC letter LET-TS2-BB-DTL-MTA-0604
 - HDPE Geo-membrane Pond Liner: USD 754,742.56. Requested by contractor with letter MTA-N203-021-H3151 and acknowledged with PMC letter LET-TS2-BB-DTL-MTA-0605.
 - Works reduced by change to HDPE Geo-membrane Pond Liner: total saving USD (235,448.95).
- Construction of the agreed works of variation order VO2 increases the total contract price to USD 23,603,051.95
- 55 **Recommended Actions:** Continue performance and compliance meetings with Contractor, preparation of budget evaluation and approval of the variation orders.
- 56 New residential and commercial developments within and close to service area to be investigated for future servicing.

6.1.4 Serei Saophoan Wastewater

- 57 Contract commencement date works is 1st September 2021. In the reporting period the contractor has done survey works and prepared submissions for construction materials and shop drawings.

6.1.5 Battambang Landfill

- 58 Excluding the works of VO3 the Contractor is well ahead of schedule – Construction of Battambang Solid Waste Management planned progress at the end of December 2021 is 38.9%, whereas actual progress is at 88.35%.
- 59 Status of Variation Orders are:
- 60 VO1 and VO2 are approved. See table 6.1
- 61 December 2021 Variation order no. VO3 covers primarily items related to complete new cell 4. The VO3 was prepared and submitted to PMU. PMC is only reviewing the VO3 related environmental issues. The VO is under process.

6.1.6 Stueng Saen Landfill

- 62 The Contractor is a little behind schedule - Construction of Stueng Saen Solid Waste Management planned progress at the end of December 2021 is 18.98%, whereas actual progress is 15.48%.
- 63 End of December 2021 PMC presented and submitted the new design of the landfill cells resulting from the higher-than-expected ground water level on the site. The contractor plans to submit shop drawings and quantity calculations as soon as possible and begin work activities at the landfill site.
- 64 Variation order VO no. 1 is being prepared including the design changes caused by the high ground water table and other changes in quantities (already known from contract CW03c).

6.1.7 Serei Saophoan Landfill

- 65 Approval was received that the landfill cells will be located inside the existing quarry pit and the buildings will be located at the old dumpsite (after remediation has taken place).
- 66 The topographical site survey and the geotechnical survey (a/o drilling monitoring wells for establishing groundwater levels) are finished. The quarry walls stability investigation has started in December 2021 and will be reported in January 2022.

- 67 The detailed designs will start as soon as the site investigations results are known. It is planned to submit the draft DED designs at the end of February 2022.

6.1.8 Works Contracts Value and Overview of VOs

- 68 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 all Work Contracts incl. VOs end of reporting period

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 Stung Saen	12,761,907.54	12,761,907.54	13,832,566.84	15,007,410.56	
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				
CW03c	Battambang Solid Waste Management	5,344,474.02	5,870,067.21	6,283,747.83		
GO2	Equipment Solid Waste					

6.1.9 Support to GDR

- 69 In the process of identifying and assessing physical impacts on properties the level of support requested from GDR has exceeded the PMC TOR and the expectations of the national consultants. The support to GDR has been provided in terms of field demarcation of corridor of impact (COI), in some cases several times due to markers lost due to floods or time taken by GDR team to mobilize into field after demarcation. Significant extra time and personnel resources have been used to fulfil these requests in all three towns in TS2. Additional fees for these activities were approved in VO5. As per GDR SOP, all GRM operations are designated solely for GDR. Therefore, no support in GRM has been provided to GDR by the consultant team.

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 the PPTA documents relating to each sub-project. This was aimed at allowing the IESIAs to be drafted without waiting for the DED to be completed for each sub-project.
- 71 In practice this has caused difficulties as in some cases the details available in the PPTA documents are not adequate, and in others the sites are different from those identified in the PPTA. As a consequence, the IESIA consultants have repeatedly pressed PMC to give them design details when no design details have been available. In some cases, therefore, IESIAs have been prepared and submitted without adequate up-to-date data about the sub-projects.

7 Work Plan

- 72 The summary schedule is shown in Annex D.

73 The major activities planned 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	▪ Civil works supervision and monitoring
Battambang – Solid Waste Management	▪ Civil works supervision and monitoring ▪ Contractor training
Serei Saophoan – Wastewater	▪ Civil works supervision and monitoring ▪ Contractor training
Serei Saophoan – Solid Waste Management	▪ Start soil investigations and geotechnical surveys ▪ Preparing the draft DED
Stueng Saen – Wastewater	▪ Civil works supervision and monitoring
Stueng Saen – Solid Waste Management	▪ Civil works supervision and monitoring ▪ Contractor training
Battambang, Serei Saophoan, Stueng Saen – Landfill Equipment	▪ Agreement with PIUs and PMU and preparation of equipment specs for bidding
Institutional Effectiveness	
Semiautonomous Urban Service Units	▪ Review and assessment of the tasks
Training Government Staff	▪ Delivery of further phases of training programme once Covid restrictions have been lifted
Policy and Planning	
Roadmap for Financial Sustainability	▪ Scoping in relation to other TAs
Urban Development Strategies and Master Plans	▪ Completion and submission of draft PSP for Banteay Meanchey ▪ Completion and submission of draft LUMP for Serei Saophoan ▪ Workshop and 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	
11-12 October 2021	International and National DTL, Site engineer and supervisor to have site meetings and site visits at Stueng Saen with Contractor MCC (CW01 lot1) and Contractor HSB (CW03b) to follow up on their construction progress and outstanding issues.
13 October 2021	Management Meeting PMC, PMU, and MEF through video conference. Discussions of: Contract management, communication channel, Civil work progress Stung Saen landfill, Battambang landfill progress, Stung Treng landfill bidding, Kampong Cham wastewater subproject.
20-23 October 2021	National Social Safeguards and Resettlement Specialist, National Environmental Specialist, Solid Waste Engineer to conduct monitoring at construction sites of the Wastewater and Landfill subprojects at Stueng Saen & Battambang
2-3 November 2021	National DTL, National Social Safeguards and Resettlement Specialist, and National Environmental Specialist to conduct an Environmental and Social Safeguards training to contractors and PIUs at Battambang for CW01 lot2 and CW03c subprojects
3 November 2021	International and National DTL to have site meeting with contractor HSB (CW03b) at Stueng Saen to follow up their construction progress
4 November 2021	International and National DTL to have Technical meeting and Site meeting with contractor MCC (CW01 lot1) at Stueng Saen
5 November 2021	International DTL to have site meeting with contractor BUCG (CW02) at Serei Saophoan to follow up their construction progress
5 November 2021	National DTL, National Social Safeguards and Resettlement Specialist, and National Environmental Specialist to conduct an Environmental and Social Safeguards training to contractors and PIUs at Serei Saophoan for CW02 subproject
15 November 2021	PMC to have a presentation and discussion with PMU through video conference on Serei Saophoan Landfill concepts and agree on the next steps
23-24 November 2021	National DTL, National Social Safeguards and Resettlement Specialist, and National Environmental Specialist to conduct an Environmental and Social Safeguards training to contractors and PIUs at Stueng Saen for CW01 lot1 and CW03b subprojects
25-26 November 2021	National Social Safeguards and Resettlement Specialist to conduct Site checking with cadastral officer, PIU, and Local authorities, and conduct face to face consultation with the people along the project sites in Stueng Saen
23 November 2021	National Solid Waste Engineer to inspect construction sites in Battambang
24-25 November 2021	National Solid Waste Engineer to have meetings with PIUs and site engineers at Serei Saophoan, site visits at old dumpsite and composting, check Access Road
29-30 November 2021	International and National DTLs to conduct site visits and have site meetings at Stueng Saen & Serei Saophoan with contractors MCC (CW01 lot1), HSB (CW03b) and BUCG (CW02) to follow up their construction progress.
1-2 December 2021	- National DTLs to have site visit and meeting with International DTL for Battambang Solid Waste (CW03c) and Wastewater Subproject (CW01 lot2) - Both National DTLs and International DTL to have meeting with National Environmental Specialist on CEMP and CAP of contractor MTA for CW01 lot2 subproject
3 December 2021	Provincial Spatial Plan (PSP) and Land Use Master Plan (LUMP) Workshop for Banteay Mean Chey
8-9 December 2021	- National Social Safeguards and Resettlement Specialist and National Environmental Specialist to have a pre-meeting with site engineers, PMU/PIU and local authorities before conduct public consultation meeting at Serei Saophoan - Conducted the public consultation meeting with the villagers who are concerned about WWTP site
12-13 December 2021	National DTL to coordinate meeting with provincial governor of Battambang, PMU, line departments, to join presentation on the subproject implementation to the provincial governor and line department
23-24 December 2021	International and National DTL to have site visit and site meeting at Stueng Saen with contractor HSB for CW03b contract and contractor MCC for CW01 lot1 contract
22-25 December 2021	National Social Safeguards and Resettlement Specialist to:

	• Have detail discussion with governor at city hall prior to the meeting with provincial authorities at Serei Saophoan • Have meeting with provincial authorities and city hall for a detail explain about Individual Temporary Relocation Plan (ITRP) • conduct the Public Consultation Meeting with all 24 businesses that are under individual temporary relocation plan (ITRP) • Work with PIU and local authority to follow up all 24 business in completing the form
30 December 2021	National DTLs and CAD Operator to have technical meeting at Stueng Saen with contractor MCC for CW01 lot1 contract
30 December 2021	International DTL and Site Engineers to have technical meeting at Serei Saohphoan with contractor BUCG for CW02 contract

Annex C: Project Progress by Output.

Activities	Weighting	Plan/Progress (%)	
Overall			
		Plan cumulative %	82.12%
		Progress to date %	69.70%
Output 1: Urban environmental infrastructure improved	70%		
		Plan cumulative %	80.72%
		Progress to date %	69.70%
Wastewater Treatment Plants, Sewerage and Drainage			
		Plan cumulative %	86.03%
		Progress to date %	76.00%
i. Stueng Saen WWTP, Sewerage and Drainage			
		Plan cumulative %	88.10%
		Progress to date %	77.75%
ii. Serei Saophoan WWTP, Sewerage and Drainage			
		Plan cumulative %	81.40%
		Progress to date %	72.40%
iii. Battambang WWTP, Sewerage and Drainage			
		Plan cumulative %	88.60%
		Progress to date %	77.85%
Wastewater Treatment Plants	20%		
		Plan cumulative %	85.87%
		Progress to date %	75.88%
i. Stueng Saen WWTP	33%		
		Plan cumulative %	87.60%
		Progress to date %	76.75%
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 %	37.00%
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 %	25.00%

ii. Serei Saophoan WWTP	33%		
		Plan cumulative %	81.40%
		Progress to date %	72.50%
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 %	19.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	19.00%
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 %	3.00%
iii. Battambang WWTP	33%		
		Plan cumulative %	88.60%
		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 %	34.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	34.00%
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 %	25.00%

Sewerage & Drainage	30%		
		Plan cumulative %	86.20%
		Progress to date %	76.11%
i. Stueng Saen Sewerage	33%		
		Plan cumulative %	88.60%
		Progress to date %	78.75%
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 %	34.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	33.00%
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 %	27.00%
ii. Serei Saophoan Sewerage and Drainage	33%		
		Plan cumulative %	81.40%
		Progress to date %	72.29%
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 %	98.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	18.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	17.00%
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 %	3.00%

iii. Battambang Sewerage	33%		
		Plan cumulative %	88.60%
		Progress to date %	77.30%
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 %	90.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	32.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	32.00%
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 %	22.00%
Landfills	15%		
		Plan cumulative %	89.80%
		Progress to date %	71.88%
i. Stueng Saen Landfill	33%		
		Plan cumulative %	91.10%
		Progress to date %	75.50%
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 %	26.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	28.00%
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 %	14.00%

ii. Serei Saophoan Landfill	33%		
		Plan cumulative %	93.30%
		Progress to date %	55.04%
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 %	77.00%
Preparation of BOQ and specs	10%		
		Cumulative %	40.00%
Preparation of Bidding Documents	2%		
		Cumulative %	77.00%
Bidding process/Award of contract	5%		
		Cumulative %	0.00%
Construction and Installation	20%		
		Cumulative %	0.00%
iii. Battambang Landfill	33%		
		Plan cumulative %	85.00%
		Progress to date %	85.10%
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 %	29.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	17.00%
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 %	64.00%

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 %	56.13%
		Progress to date %	12.06%
a. Establishment of Urban Services Units	75%		
		Plan cumulative %	50.00%
		Progress to date %	7.00%
Stueng Saen	33%		
		Cumulative %	7.00%
Serei Saphoan	33%		
		Cumulative %	7.00%
Battambang	33%		
		Cumulative %	7.00%
b. Training	25%		
		Plan cumulative %	74.50%
		Progress to date %	27.25%
Training Needs Assessment	25%		
		Cumulative %	100.00%
Training Delivery	75%		
		Cumulative %	3.00%
Output 3: Policy and Planning Environment Improved	10%		
		Plan cumulative %	100.00%
		Progress to date %	98.50%
a. Preparation of Land Use Master Plan	50%		
		Plan cumulative %	100.00%
		Progress to date %	98.00%
Stueng Saen	50%		
		Cumulative %	99.00%
Serei Saphoan	50%		
		Cumulative %	97.00%
b. Preparation of Provincial Plans	50%		
		Plan cumulative %	100.00%
		Progress to date %	99.00%
Banteay Meanchey Province	100%		
		Cumulative %	99.00%

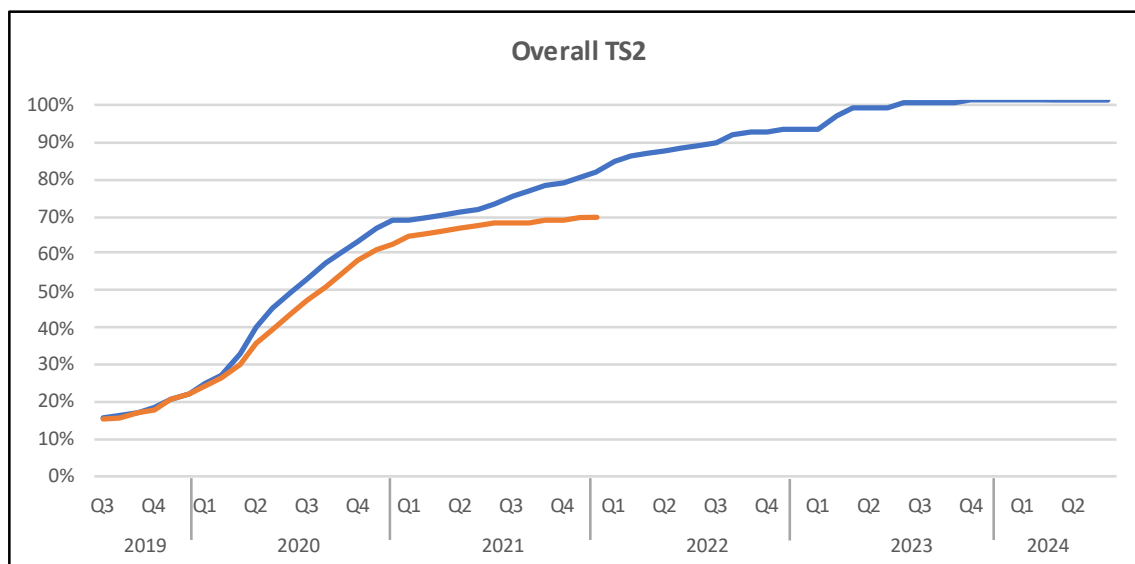
Output Progress Compared with Planned Progress.

(Based on work plans prepared in April 2020)

Project Progress - Outputs from Project Performance Monitoring System

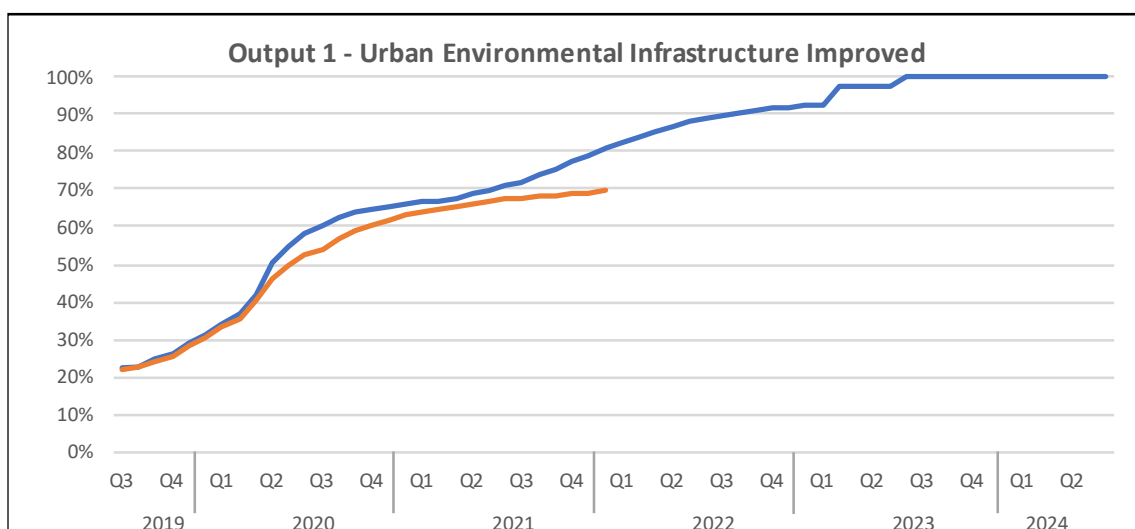
December 2021

TS2



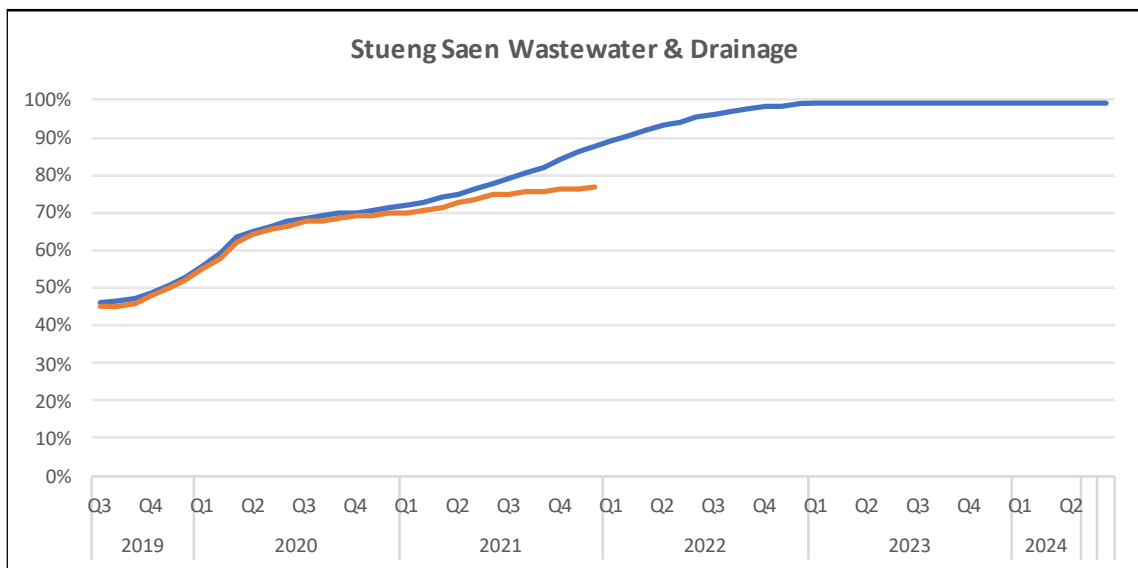
Plan 82.12%

Actual 69.70%

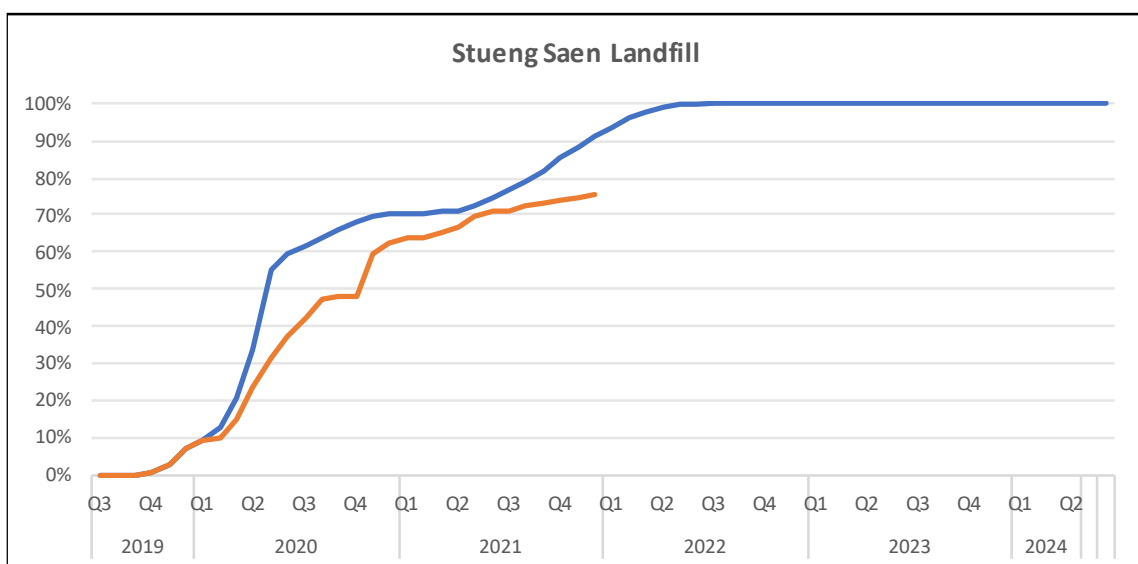


Plan 80.72%

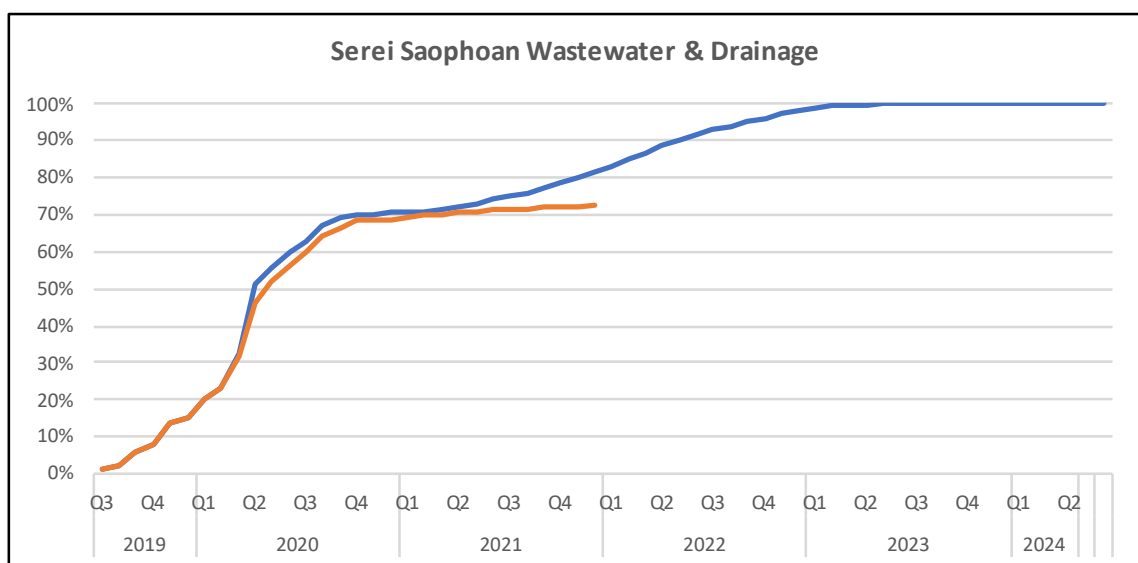
Actual 69.70%



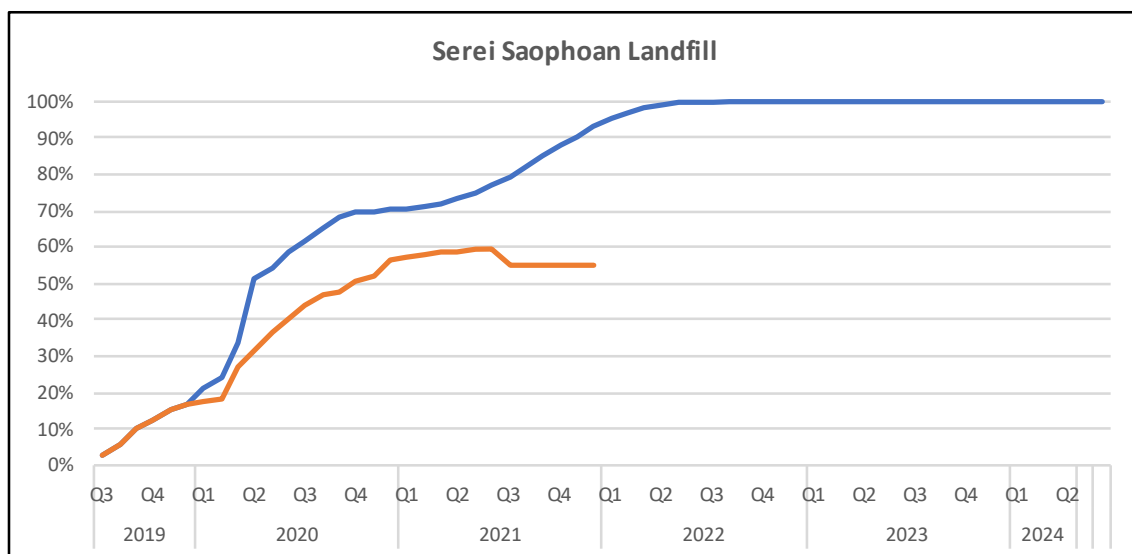
Plan 88.10% **Actual** 77.75%



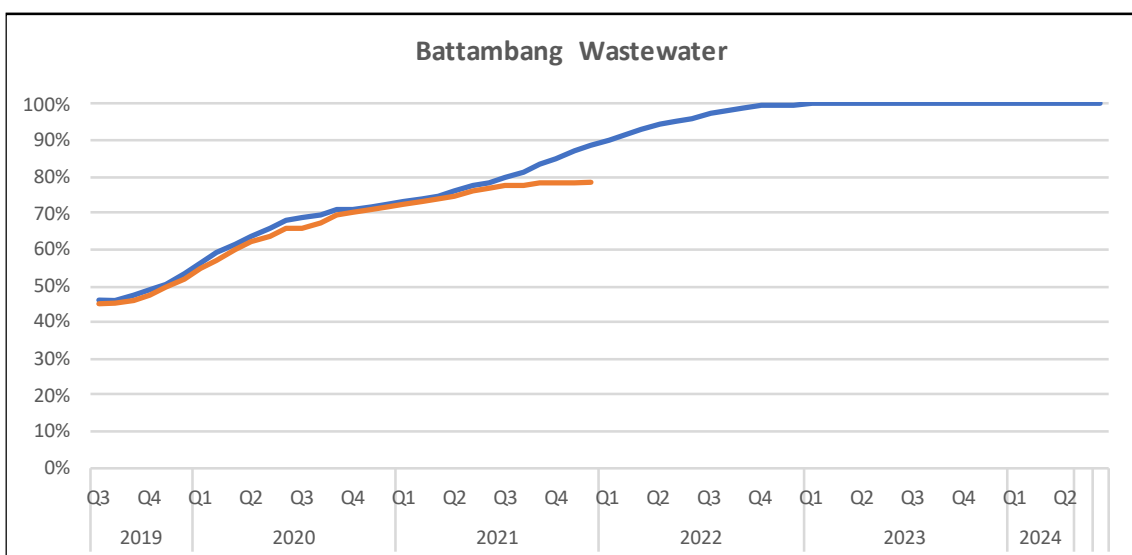
Plan 91.10% **Actual** 75.50%



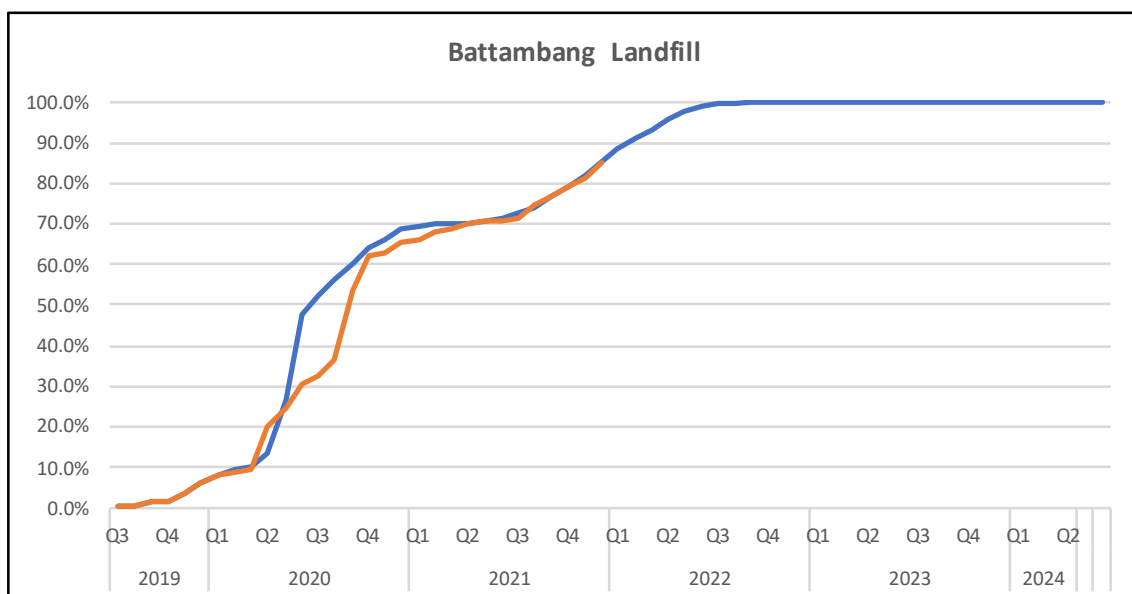
Plan 81.40% **Actual** 72.40%



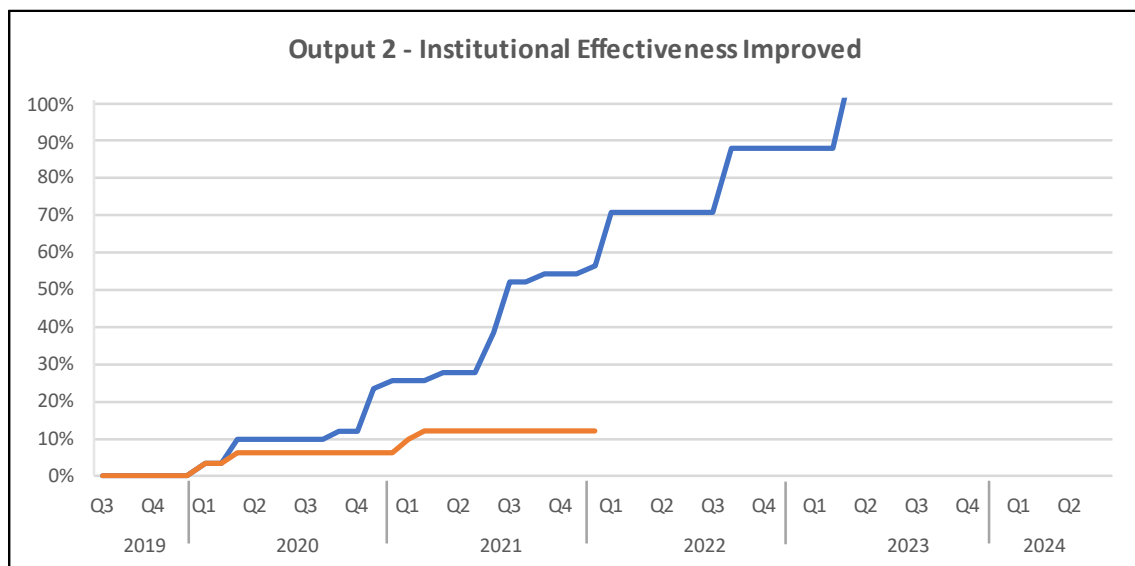
Plan 93.30% **Actual** 55.04%



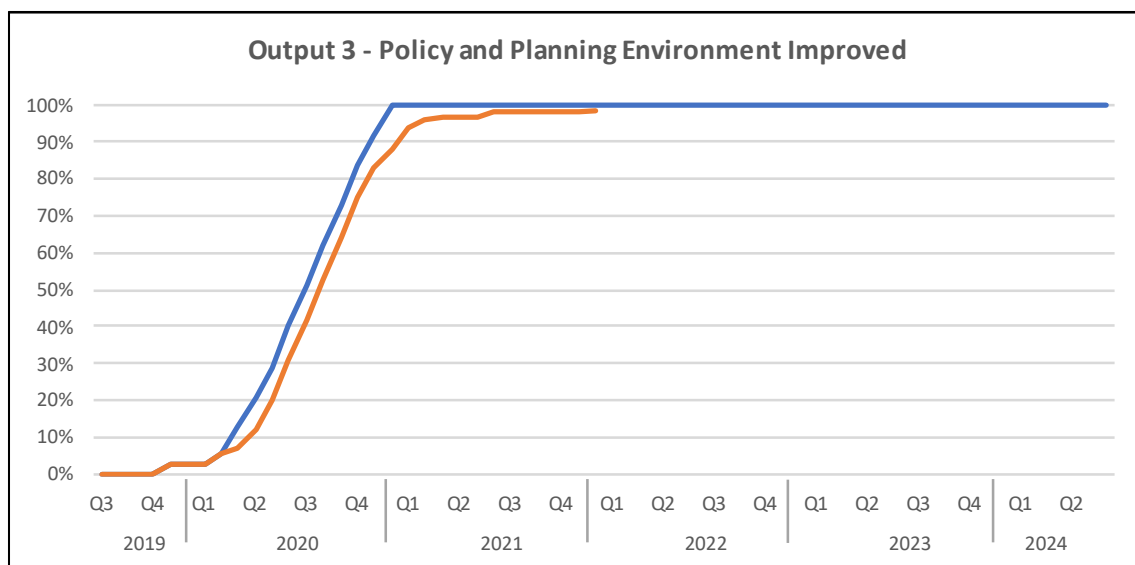
Plan 88.60% **Actual** 77.85%



Plan 85.00% **Actual** 85.10%



Plan 56.13% **Actual** 12.06%



Plan 100.00% **Actual** 98.50%

Annex D: Work Plan (Revised based on dates discussed during special ADB mission in May 2021).

[illegible]

Annex E: Consultant Inputs (Time-based only).

TS2 Timesheet input								
Quarterly 4 (Oct - Dec 2021)								
Position Code	Name	Position	Contract Amount	Contract Amount after Variation Order No.6	Cumulative to Q3 Sep'21	Q4 Period Oct-Dec'21	Total	Balance
International Expert								
Int.KE-1	Mr. René van Doorn	Team Leader	27.00	27.00	10.99	1.53	12.52	14.48
Int.KE-2	Mr. Lars Orio	International Deputy Team Leader	22.41	22.41	14.50	2.71	17.21	5.20
Int.KE-4	Mr. Steven Long	Solid Waste Management Engineer	2.00	2.00	0.30	0.70	1.00	1.00
Int.KE-5	Mr. Peter Peter Gammelgaard Jensen	Environmental Safeguard Specialist	5.00	5.00	2.83	0.38	3.21	1.79
Int.KE-6	Mr. Teemu Jantunen	Social Safeguard and Resettlement Specialist	5.00	7.50	5.57	0.56	6.13	1.37
Int. NKE-7	Ms. Alice Thauvin	Finance and Institutional Specialist	5.00	5.00	0.08	0.05	0.13	4.87
Int.NKE-9	Mr. Alexander Timmerman	Social Development and Gender Specialist	2.00	2.00	1.23	0.19	1.42	0.58
National Expert								
Nat.KE-1.1	Mr. Ho Ratha	Deputy Team Leader (TS2)	55.00	55.00	22.96	3.00	25.96	29.04
Nat.KE-2	Mr. Yin Somean	Solid Waste Engineer	6.00	6.00	0.10	2.15	2.25	3.75
Nat. KE-5.1	Mr. Yim Chamnan	Environment Safeguards Specialist-1	14.00	14.00	7.20	1.18	8.38	5.62
Nat.KE-6.1	Mr. Chan Narith	Social Safeguard and Resettlement Specialist-1	12.00	15.00	12.54	1.89	14.43	0.57
Nat. KE-7	Mr. Chheav Nak	Institutional Development Specialist	8.00	8.00	0.32		0.32	7.68
Nat.NKE-8.1	Mr. Sem Chenda	Site Engineer-1 (Battambang)	25.00	25.00	12.00	3.00	15.00	10.00
Nat.NKE-8.2	Mr. Tith Sophal	Site Engineer-2 (Serei Saophoan)	25.00	25.00	2.00	3.00	5.00	20.00
Nat. NKE-8.3	Mr. Saing Soveasna	Site Engineer-3 (Steung Saen)	25.00	25.00	13.94	3.00	16.94	8.06
Nat. NKE-9.1	Mr. Chuon Sokcheak	Site Supervisor-1 (Battambang)	30.00	30.00	11.00	3.00	14.00	16.00
Nat.NKE-9.2	Mr. Chan Saroeun	Site Supervisor-2 (Serei Saophoan)	30.00	30.00	2.00	3.00	5.00	25.00
Nat. NKE-9.3	Mr. Ham Laycheang	Site Supervisor-3 (Steung Saen)	30.00	30.00	13.94	3.00	16.94	13.06

Annex F: Gender Action Plan Monitoring.

Gender Action Plan (GAP Activities, Indicators and Targets, Timeframe and Responsibility)	Progress to date – accumulated (as of December 2021)	Issues, Challenges & Comments
Output 1: Urban environmental infrastructure improved		
Output 1.1: Urban environmental infrastructure in Stueng Saen improved		
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	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 to be subcontracted for IEC.	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.
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	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 to be subcontracted for IEC.	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). Responsibility: PIUs/Cities/organizations, incl. Landfill operation, waste collection operation, and the urban service unit	Not yet due: Q4 2023	The employing organisations to be assigned responsibility for the target. PMC to obtain and review baseline in operating companies. Include 30% of women in the training invitation for O&M staff to ensure target can be met.

Output 1.2: Urban environmental infrastructure in Serei Saophan improved		
Target 4: 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	Not yet due: Q4 2023 The bidding document requires free HH sewer connections for 3700 HH in Serei Saophan. Target is included in the TOR for the NGO to be subcontracted for IEC.	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.
Target 5: 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	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 to be subcontracted for IEC.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.
Target 6: 30% of staff employed in operation and maintenance are women (baseline 2016: 0). Responsibility: PIUs/Cities/organizations, incl. Landfill operation, waste collection operation, and the urban service unit	Not yet due: Q4 2023	The employing organisations to be assigned responsibility for the target. PMC to obtain and review baseline in operating companies. Include 30% of women in the training invitation for O&M staff to ensure target can be met.
Output 1.3: Urban environmental infrastructure in Battambang improved		
Target 7: 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	Not yet due: Q4 2023 Works contract signed August 2020 The bidding document requires free HH sewer connections for 5,180 HH in Battambang. 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 to be subcontracted for IEC.	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 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 8: Improved toilets provided free of charge for a total of 760 ID Poor 1 and 2 (2018 baseline: 0) including 100 FHH in the three participating towns. Responsibility: PIUs/Cities	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 to be subcontracted for IEC.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.
Target 9: 30% of staff employed in operation and maintenance are women (baseline 2016: 0). Responsibility: PIUs/Cities/organizations, incl. Landfill operation, waste collection operation, and the urban service unit	Not yet due: Q4 2023	The employing organisations to be assigned responsibility for the target. PMC to obtain and review baseline in operating companies. Include 30% of women in the training invitation for O&M staff to ensure target can be met.
Output 2: Improved institutional effectiveness		
Target 10: 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 11: 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. Women representation are as follows: PMU: 0 of 10 (0% 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	Not yet due: Q4 2022	Relation to GAP unclear

governments, with consultation from MEF, MIH, MOWA, MRD and other relevant agencies (2018 baseline: N/A) Responsibility: PMU/PIUs		
Action 2: Urban development strategy and master plan, with climate resilience and gender responsive measures, developed and approved in all three cities. (2018 baseline: N/A) Responsibility: MLMUPLC/PMC	Not yet due: Q4 2022 Land Use Master Plans (LUMP) under preparation for Stueng Saen and Serei 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 workshop in Serei Saophan, Banteay Meanchey (TS-2) related to LUMP and PSP on 26-Nov 2020: Total participants: 6 F of 66, 9%	Note that 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 approved in Stueng Saen and Serei Saophan". Change of action may be considered at MTR. 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 11: 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 to be subcontracted for IEC.	Baseline and impact survey to be included in the scope of the NGO assignment

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

No.	Covenant	Reference	Status of Compliance
TS2 Loan 3684			
1	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 the Loan Agreement	Section 4.01	Ongoing
2	The borrower shall cause the Project Executing Agency to (i) maintain separate accounts and records for the projects; (ii) prepare annual financial statements for the project in accordance with financial reporting standard 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 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.	Section 4.02 (a)	Ongoing
3	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.	Section 4.02 (b)	Ongoing
4	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.	Section 4.02 (c)	Ongoing
5	The Borrower shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Section 4.03	Ongoing
TS2 Grant 0951			
7	In the carrying out of the project and operation of the project facilities, the Recipient shall perform, or cause to be performed, all obligations set forth in Schedule 5 to the Ordinary Operations [Concessional] Loan Agreement.	Section 4.01	Ongoing
8	The Recipient shall cause the Project Executing Agency to (i) maintain separate accounts and records for the projects; (ii) prepare annual financial statements for the project in accordance with financial reporting standard 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 Grant proceeds, and 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.	Section 4.02 (a)	Ongoing
9	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.	Section 4.02 (b)	Ongoing
10	The Recipient shall enable ADB, upon ADB's request, to discuss the financial statements for the project and the Recipient'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 Recipient, unless the Recipient shall otherwise agree.	Section 4.02 (c)	Ongoing

No.	Covenant	Reference	Status of Compliance
11	The Recipient shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Section 4.03	Ongoing

Annex I: Financial Management Action Plan

Risk description	Impact	Likelihood	Overall Risk Assessment	Mitigation measures/ Responsibility	Timeline	Responsibility	Actions Taken/ Status	Next Steps
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 3 months after the end of each fiscal year.	MPWT/PMU	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.	The record and asset management is stated in the Financial Management (FMM) issued by MEF, RGC in Dec 2019
				Train government staff in fixed asset management including linkage to asset preventive maintenance activities	Within 3 months after the end of each fiscal year.	MPWT/PMU	The government staff were trained on the updated FMM (2019) including asset management in various groups by MEF in later 2019 and early 2020.	
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	MEF and MPWT/PMU	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	Responsibility	Actions Taken/ Status	Next Steps
				External audit will be in accordance with international auditing standards.	Throughout the project	MPWT/PMU	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	MPWT/PMU and PMC	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	MEF and MPWT/PMU	Complied with; engaged a qualified audit company under the project	
				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	MPWT/PMU and PIUs	PMU undertakes regular backups of all financial, accounting and project related data and appropriate security measures over backed-up data	

Risk description	Impact	Likelihood	Overall Risk Assessment	Mitigation measures/ Responsibility	Timeline	Responsibility	Actions Taken/ Status	Next Steps
							in external HD which is kept in the safe. .	
Overall Risk			Moderate					

