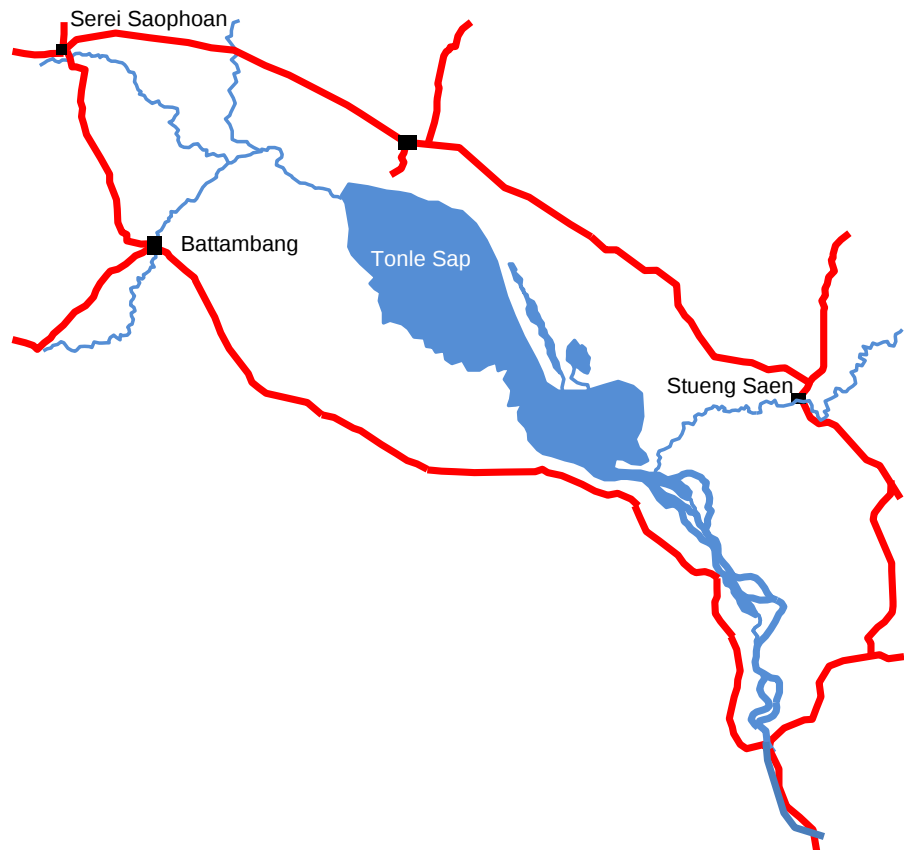




Ministry of Public Works and Transport
The Kingdom of Cambodia

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



Quarterly Report
Quarter 2, 2021
April to June



Document Control Sheet

Component				
Type of Document		Quarterly report		
Description				
Version	Prepared by	Date	Checked by	Date
0.1	Richard Mabbitt	22/07/2021	Pau Prat Busquets	26/07/2021

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Abbreviations

ADB	Asian Development Bank
CBO	Community-Based Organization
CPP	Community Procurement Procedures
CPS	Country Partnership Strategy
CSO	Civil Society Organizations
DC	Development Committee
DRM	Disaster Risk Management
EA	Executing Agency
EMP	Environmental Management Plan
FGD	Focus Group Discussion
GAP	Gender Action Plan
IA	Implementing Agency
IEE	Initial Environmental Examination
IP(s)	Indigenous People(S)
NCB	National Competitive Bidding
PIU	Project Implementation Unit
PMC	Project Management Consultant Team
PMU	Project Management Unit
ROW	Right of Way
SWM	Solid Waste Management
TA	Technical Assistance
TNA	Training Needs Assessment
TOR	Terms of Reference
USD	United States Dollar

1 Introduction and Basic Data

1.1 Introduction

- 1 The Government of The Royal Government of Cambodia has obtained a loan and grant from the Asian Development Bank (ADB) towards the cost of the Second Integrated Urban Environmental Management in the Tonle Sap Basin Project (hereinafter referred to as TS2). The location of the project towns is shown in Figure 1.1.
- 2 This is the Quarterly Report for Quarter 2, 2021 (April 1 to June 30).

Figure 1.1 Location of Project Towns



1.2 Basic Data

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

Table 1.1 Basic Data – TS2

ADB Project number:	Loan 3684, Grant G0591
Project Title:	Second Integrated Urban Environmental Management in the Tonle Sap Basin Project
Borrower/Beneficiary:	Kingdom of Cambodia
Executing Agency:	Ministry of Public Works and Transport
Implementing Agency:	Provincial Governments of Battambang, Serei Saophoan, Tueng 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 30th June 2021, the contract awards amount to a total of **\$66,683,246**, and to date disbursements total **\$10,955,164**.

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

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
Loan 3684	87,730,000	65,413,246	22,316,754	9,152,805	78,577,195	56,260,442
Grant 0591	1,270,000	1,270,000	-	1,270,000	-	-
Government	8,700,000			532,359	8,167,640	
Total	97,700,000	66,683,246	22,316,754	10,955,164	86,744,836	56,260,442

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	67,740,000	60,838,953	6,901,047	5,889,067	61,850,933	54,949,886	90%	9%
Goods & 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	2,070,587	3,589,413	3,542,586	99%	37%
Incr. Adm. Cost	750,000	69,721	680,280	53,257	696,744	16,464	9%	7%
Interest charge	2,460,000	-	2,460,000	27,234	2,432,766	-	0%	1%
Unallocated	10,020,000	-	10,020,000	-	10,020,000	-	0%	0%
Advance account				253,000	(253,000)			
Total	89,000,000	66,683,246	22,316,754	8,454,544	80,545,456	58,508,936	75%	9%

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	66,470,000	59,568,953	6,901,047	4,619,067	61,850,933	54,949,886
Goods & equipment	2,370,000	161,400	2,208,600	161,400	2,208,600	-
Consulting services	5,660,000	5,613,173	46,827	2,070,587	3,589,413	3,542,586
Incr. Adm. Cost	750,000	69,721	680,280	53,257	696,744	16,464
Interest charge	2,460,000	-	2,460,000	27,234	2,432,766	
Unallocated	10,020,000	-	10,020,000	-	10,020,000	-
Advance account	-	-	-	253,000	(253,000)	
Total	87,730,000	65,413,246	22,316,754	7,184,544	80,545,456	58,508,936

Table 2.4 Awards and Disbursements Status, Grant 0591

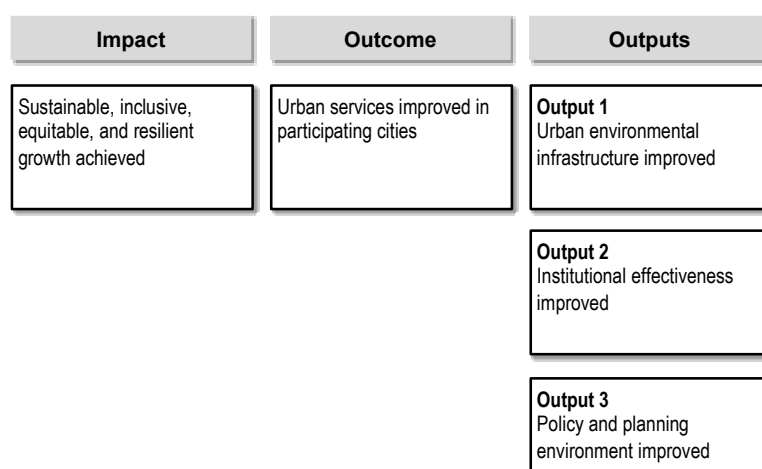
Fund	Allocation	Contracts Awarded	Uncontracted Loan/Grant Balance	Contracts Disbursed	Undisbursed Loan/Grant Balance	Undisbursed Contract Balance
	A	B	C = A-B	D	E = A-D	F = B-D
Works	1,270,000	1,270,000		1,270,000		
Total	1,270,000	1,270,000		1,270,000		

3 Project Scope and Purpose

3.1 Project Impact, Outcome and Outputs

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

Figure 3.1 TS2 Impact, Outcome and Outputs



3.2 Sub-Projects

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

Table 3.1 Proposed Civil Works Sub-Projects

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

Source: PPTA reports

* For first phase to 2030

3.3 Safeguards

3.3.1 Resettlement

- 11 The position regarding resettlement data/documentation and the next steps are shown in Table 3.2. The overall status of resettlement safeguards is summarised in Table 3.3.
- 12 Resettlement documents, such as IR impact screening forms, due diligence reports (DDRs) and detailed resettlement plans (DRPs) have been completed for TS2. GDR is in progress of completing compensation payments for Serei Saophoan, whereas the compensation process for other subprojects is completed and sites have been handed over to the contractors. During construction phase the focus of PMC resettlement work is on providing social safeguards training and technical

support to contractors and PIUs, disclose updated information to affected households (AHs) and communities, and support monitoring and reporting of implementation. Details of resettlement and social safeguards implementation progress is given in 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
Battambang	Wastewater	▪ None	▪ Update PIB with construction schedule ▪ Conduct contractor refresher training ▪ Consult market vendors prior to nighttime construction at market area
	Solid waste management	▪ None	▪ None
Serei Saophoan	Wastewater & Drainage	▪ Completion of compensation payments by GDR	▪ Complete sectional release plan ▪ Individual temporary impact agreement with impacted businesses ▪ Contractor safeguards training
	Solid waste management	▪ Update design	▪ None
Stueng Saen	Wastewater	▪ Completion of compensation payments by GDR	▪ Consultation with market vendors and monitoring temporary market relocation ▪ Social Audit for WWTP site (done by GDR) ▪ Distribute updated PIB ▪ Conduct contractor refresher training
	Solid waste management	▪ None	▪ None

3.3.2 Environment

- 13 The overall status of environmental safeguards is summarised in Tables 3.4 and 3.5.
- 14 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 IESIAs
 - Conduct additional analysis and data collection to ensure the final IEEs comply with ADB Safeguards Policy (SPS, 2009);
- 15 Prepare contract specific EMPs and assist MPWT/PMU to agree with design-build contractors and/or attach to bidding documents or potential contractors

3.4 Grievance Redress Mechanism

- 16 The Grievance Redress Mechanism (GRM) is designed to receive, evaluate and facilitate the resolution of residents' concerns, complaints and grievances during project implementation. A Provincial Grievance Redress Committees (PGRC) has been established in each of the three towns and are operational.
- 17 The GRM process is included in the PIBs, which will be circulated to the target communities and affected persons once outline designs are ready. PIBs include GRC contact person names and contact details. None of the PIBs has been disseminated to date.
- 18 Contractor safeguards training, including GRM procedures, has been undertaken in Stueng Saen and Battambang and is planned in Serei Saophoan in Q2.

3.5 Gender Action Plan

- 19 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.

Table 3.3 Status of Resettlement Safeguards

TS-2	Subproject / IR category	Site Agreed	Land ownership	Cadastral 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, including adjusted COI for access road	Apr-Jun.20	n/a	DDR approved Dec.20	Construction on-going
	Wastewater / B	Yes	Private	Yes	Yes	To be updated	n/a	10 ha	Yes, including adjusted COI	Apr-Jul.20	Apr-Jul.20	DRP approved Jul.20	Construction on-going. Update PIB with needed, and consultation with vendors prior to night-time construction. Contractor safeguard fresher training to be conducted (covid delay).
Serei Saophoan	Landfill / B	Yes	Private	Requested	Yes	To be updated	Submitted	10 ha	DED update on-going for additional works	Nov-Dec.20	Nov-Dec.20	DRP approved Mar.21	Old dumpsite not available for project, so review of design and land requirements for these needed
	Wastewater / B	Yes	Private	Requested	Yes		Submitted	24 ha	Yes, including adjusted COI				Sectional release to be done, and Individual relocation plan to be prepared and consultation to be organized with business AHs/vendors
Stung Saen	Landfill / C	Yes	Private	Yes	Yes	Distributed	Submitted	20 ha	Yes, including adjusted COI for access road	Mar.20	Mar.20	DDR approved Dec.20	Construction on-going. Consultation with vendors prior to temporary relocation during construction
	Wastewater / B	Yes	State 6 ha/Private 10 ha	Yes	Yes	Updated with construction schedule	Yes (14.3. 2019)	10 ha	Yes, including updated/adjusted COI	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). Site hand over letter was submitted. Contractor safeguard fresher training to be conducted (covid delay). Updated PIB to be shared once covid situation allows

Table 3.4 Status of IESIA Preparation TS2

Documents	Submitted to MoE	Approved By MoE:	Status- if not approved	Comments
IESIA CW01 Lot 1 – Steung 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 – Steung Saen: Solid waste	2 nd Final draft 02 February 2021	-	Under approval process	Inter-ministerial meeting held on 28-Apr-2021
IESIA CW03c – Battambang: Solid waste	Final draft 31 Dec 20	10 February 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	March 21	February 21	10-03-21	March 21	IEE/EMP: Awaiting endorsement by ADB
	WWTP	Yes	Private	Yes	16-11-2020	18-02-2021	23-02-2021	16-11-2020	18-02-2021	23-02-2021	Gap analysis of the earlier approved CEMP compared with the updated EMP carried out identifying corrective actions to be implemented by the contractor
Serei Saophoan	Landfill	Yes	Private	Yes 14-10-19	February 21	March 21	March 21	February 21	March 21	March 21	IEE/EMP: Design is being reviewed and revised, IEE and EMP to be updated in parallel with finalization of the design
	WWTP	Yes	Private	Yes 11-02-20	28-04-2020	26-02-2021	In bid documents	01-06-2020	26-02-2021	In bid documents	
Steung Saen	Landfill	Yes	Private	Requested	30-05-2020	01-04-2021	07-04-2021	05-06-2020	01-04-2021	07-04-2021	
	WWTP	Yes	State 6.9 ha. Private 10ha.	Yes	19-11-2020	18-02-2021	23-02-2021	19-11-2020	18-02-2021	23-02-2021	Gap analysis of the earlier approved CEMP compared with the updated EMP carried out identifying corrective actions to be implemented by the contractor

4 Implementation Progress

4.1 Project Organisation and Management

- 20 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).
- 21 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 which addressed the overall planning of the project describing the key issues including subproject land status, priorities, future plans and understanding risks in order to develop a clear strategy and work plan.
- 22 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.
- 23 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.
- 24 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. This will be the Project Office for at least one year.

4.1.1 Contract Variations

- 25 The final version of VO5 was submitted to PMU in May 2021 and NOL issued by ADB on 16th June 2021. The history and approval dates of contract variations are 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 DTL
	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
This Quarter	5	May 2021		16 June 2021	Additional time spent by PMC due to site changes, scope changes and other unforeseen complications

* Initially submitted as a request by letter

4.2 Progress Monitoring

- 26 A Project Performance Monitoring System (PPMS) is being used to record the progress of the project. A PPMS Report was submitted to ADB in June, and the proposed weightings were revised following the receipt of comments. The percentage progress by Outputs and Activities according to the PPMS are provided in Annex C.
- 27 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	Safeguards	Status	Action Required	Action By
TS2								
CW01 Lot 1 Wastewater & Drainage WWTP, sewers, drains	Stueng Saen	▪ Yes ▪	▪ By PPTA	▪ By PPTA	▪ Revised IEE/EMP approved ▪ Temporary impact agreements completed ▪ DRP approved	▪ NOL received from ADB for areas where compensation complete ▪ VO submitted	▪ Works to start in clear zones	▪ PMC ▪ PIU & contractor
CW01 Lot 2 Wastewater WWTP, sewers	Battambang	▪ Yes	▪ By PPTA	▪ By PPTA	▪ Revised IEE/EMP approved ▪ DRP approved ▪	▪ NOL received from ADB for areas where compensation complete ▪ VO submitted	▪ Works to start in clear zones	▪ PMC ▪ PIU & contractor
CW02 Wastewater & Drainage WWTP, sewers, drains	Serei Saophoan	▪ MOE 11.2.20	▪ Yes	▪ Yes	▪ Revised IEE/EMP approved ▪ DRP approved March 2021	▪ Contract awarded ▪ Mapping of clear zones submitted	▪	▪ ▪
CW03a Landfill	Serei Saophoan	▪ 14 Oct 2019	▪ Yes	▪ Yes	▪ IEE/EMP under revision ▪ DRP approved March 2021	▪ DED ongoing	▪ DED for revised scheme ▪	▪ PMC
CW03b Landfill	Stueng Saen	▪ 12 Oct 2020	▪ Yes	▪ Done	▪ IEE/EMP approved April 2021 ▪ DDR approved Dec 2020	▪ BER submitted to ADB	▪	▪
CW03c Landfill	Battambang	▪ MOE 13.2.20	▪ Yes	▪ Yes	▪ Revised IEE/EMP approved ▪ DDR approved Dec 2020	▪ Contract awarded ▪ VO submitted and being considered	▪ Review and approval of VO	▪ PMU, ADB, PMC
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	Action Required	Action By
TS2				
Provincial spatial plan	Banteay Meanchey	- Situation Report submitted November 2020 - Workshop on 26th November	Draft PSP	PMC
LUMP	Serei Saophoan	Workshop on 26th November	- Second workshop - Draft LUMP	PMC
LUMP	Stueng Saen	- Initial site visits and meetings undertaken	- Workshop to be arranged - Draft LUMP	PMC

3. OTHER ACTIVITIES

Item	Status	Action Required	Action By
IEC	Draft TOR submitted to PMU	Shortlist and recruit NGO	PMU/PMC
Capacity Building	- Training needs assessment done - First training planned in August – but now delayed due to Covid-19		PMU

4.3 Implementation Activities

4.3.1 Consultant Team

- 28 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	Richard Mabbitt
Deputy Team Leader	Lars Orio
Wastewater / Civil Engineer	Michael Odgaard Nielsen
Social Safeguards and Resettlement Specialist	Teemu Jantunen
Urban Development Specialist	Howard Trett
Urban and Regional Planner	Hisako Kobayashi
Development Economist	Richard Corsel
Urban and Regional Economist	Manabu Fujikawa
Urban Planner	Tomoki Fukunaga
Solid Waste Expert	Steve Long
Social and Gender Expert	Alexander Timmermann
Senior Design Engineer	Dhanesh Prasad
Environmental Safeguards Expert	Peter Gammelgaard Jensen
National	
National Deputy Team Leader	Ho Ratha
National Deputy Team Leader	Ly Nara
Environmental Safeguard Specialist	Yim Chamnan
Sanitation Engineer	Va Vandith
Sanitation Engineer	Sarit Chung
Social Safeguards & Resettlement Specialist TS2	Chan Narith
SWM Specialist	Yin Somean
Urban Planner	Sim Bovisal
Land Use Management Specialist	David Chandavin
CAD Operator	Lon Saoveasna
CAD Operator	Phe Samnang
Site Engineer Stueng Saen	Saing Soveasna
Site Supervisor Stueng Saen	Ham Laycheang
Site Engineer Battambang	Sem Chenda
Site Supervisor Battambang	Chuon Sokcheak

Note: Not including engineering design teams in India and Lao PDR

4.3.2 General Activities

- 29 Activities during the quarter have included further review of the PPTA proposals, meetings with stakeholders, site visits to the towns, topographical and soil surveys and detailed design work.

4.3.3 Activities by Output

- 30 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>
	- Initial works commenced - Technical Note on development areas submitted - VO submitted for additional works
	<i>Battambang – Solid Waste Management:</i>
	- Processing contractor applications and other start-up documentation - Technical Note on impact of further excavations submitted - VO submitted for change in scope
	<i>Serei Saophoan – Wastewater:</i>
	- Contract awarded - Start-up activities commenced
	<i>Serei Saophoan – Solid Waste Management:</i>
	DED ongoing for all facilities within original landfill area
Output 2: Institutional Effectiveness Improved	<i>Stueng Saen – Wastewater:</i>
	- Initial works commenced - VO submitted for additional works
	<i>Stueng Saen – Solid Waste Management:</i>
	- Contract awarded - Start-up activities commenced
	<i>Battambang, Serei Saophoan, Stueng Saen – Landfill Equipment:</i>
	Solid waste equipment report submitted
	<i>Semiautonomous Urban Service Units:</i>
	No action to date
Output 3: Policy and Planning Environment Improved	<i>Training Government Staff:</i>
	No action this quarter
	<i>Roadmap for Financial Sustainability:</i>
	Data collection commenced
	<i>Urban Development Strategies and Master Plans:</i>
	- Banteay Meanchey Provincial Spatial Plan – The formulation of development strategies and action plan is in progress. The spatial structure of the province in 2040 is under preparation - Serei Saophoan Land Use Master Plan – The socio-economic framework is under preparation. The land use plan in 2040 is under preparation. The formulation of development strategies and action plan is in progress - Stueng Saen Land Use Master Plan – Situation analysis report in preparation

4.3.4 Meetings

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

4.4 Project Costs

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

Table 4.5 Current Estimates of Sub-project Costs

Contract No.	Sub-Project	Estimate US\$m	Source of Estimate	Procurement Plan (10 Aug 2020)	Difference
CW01	Battambang WWTP and sewerage	21.72	Signed contract value	37.49	-3.01
	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	2.88**	PPTA estimate	6.84	-3.96
CW03b	Stueng Saen Landfill	4.09	Signed contract value	3.59	0.5
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		\$71.65		\$87.05	-\$15.40

* Total for two sub-projects

**Actual cost expected to be significantly higher than PPTA estimate

- 33 As can be seen in Table 4.5, the current total estimate for civil works and equipment is around \$15.4m under the amount in the latest procurement plan. However, the final value will be higher than the current estimate as described below.
- 34 The latest estimates include the signed contract values for five of the six civil works contracts. It is anticipated that there will be some upward contract adjustments since the BOQs were not totally comprehensive, and this has already been reflected in variation requests submitted by contractors.
- 35 As noted in Table 4.5, the current estimate for Serei Saophoan landfill is from the PPTA as the revised DED work is not yet at a stage to provide an updated estimate. The site is a difficult one and the actual value is expected to be close to the amount in the Procurement Plan.

4.5 Procurement

4.5.1 Procurement Plan

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

4.5.2 Procurement of Civil Works and Equipment

- 37 Three civil works contracts were signed during the quarter – Serei Saophoan Wastewater and Drainage, Battambang Solid Waste Management and Stueng Saen Solid Waste Management. 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	Method of Procurement	Type of Contract	Review	Submission of Proposed Bidding Documents to ADB	ADB Approval of Bid Docs	Invitation for Bid/ RFP Issued	Pre-Bid Meeting	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	ICB	Works	Prior	09-Aug-19	13-Aug-19	16-Aug-19	-	16-Oct-19	01-Dec-19	25-Mar-19	06-Jul-20
CW01 Lot 2	Wastewater and Drainage Battambang	ICB	Works	Prior	09-Aug-19	13-Aug-19	16-Aug-19	-	16-Oct-19	01-Dec-19	25-Mar-19	14-Aug-20
CW02	Wastewater and Drainage Serei Saophoan	ICB	Works	Prior	24-Jul-20	28-Jul-20	31-Jul-20	-	22-Sep-20		19-Mar-21	19-Apr-21
CWO3a	Serei Saophoan Solid Waste Management	ICB	Works	Prior								
CWO3b	Stueng Saen Solid Waste Management	ICB	Works	Prior	-		03-Mar-21		06-May-21		03-Jun_21	14-Jun-21
CWO3c	Battambang Solid Waste Management	ICB	Works	Prior	16-Oct-20	11-Dec-20	16-Dec-20		28-Jan-21		08-Mar-21	15-Mar-21
G02	Soldi Waste Management Equipmennt	ICB	Equipment	Prior								

4.6 Provincial Planning and Municipality Planning

4.6.1 General Activities

- 38 1 Activities during the quarter include the preparation of development strategies and action plan for Provincial Spatial Plan (PSP) and Land Use Master Plans (LUMP) and meetings with relevant organizations. Due to the spread of coronavirus infection in Cambodia and lockdown of Phnom Penh, most of meetings and workshops were suspended.

4.6.2 Activities by Output

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

Table 4.7 Key Planning Activities During the Reporting Period

Outputs	Summary of Activities Undertaken
Output 1: Formulation of Provincial Spatial Plan	<i>Banteay Meanchey:</i> - Data and information related to population, economy, infrastructure, physical characteristics, land use, protected areas, disaster prone areas, on-going projects, etc. have been continuously collected and analyzed. - The socio-economic framework is under preparation. - The formulation of development strategies and action plan is in progress. - The spatial structure of the province in 2040 is under preparation. - A meeting with MLMUPC was conducted on June 16 to update the progress. - Meetings with experts in water supply, power supply, and agricultural sectors were conducted to obtain data and information of related projects, and discuss the development directions of the sectors.
Output 2: Formulation of Land Use Master Plan	<i>Serei Saophoan:</i> - Data and information related to population, economy, infrastructure, physical characteristics, land use, protected areas, disaster prone areas, on-going projects, etc. have been continuously collected and analyzed. - The socio-economic framework is under preparation. - The land use plan in 2040 is under preparation. - The formulation of development strategies and action plan is in progress. - A meeting with MLMUPC was conducted on June 16 to update the progress. - Meetings with experts in water supply, power supply, and agricultural sectors were conducted to obtain data and information of related projects, and discuss the development directions of the sectors <i>Stueng Saen:</i> - Data and information of the current situation, including population, economy, infrastructure, physical characteristics, disaster prone areas, etc. have been collected and analyzed. - Relevant plans and policies have been collected and reviewed. - The situation analysis report is in progress. - A meeting with MLMUPC was conducted on June 16 to update the progress

5 Compliance with Covenants

- 40 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

- 41 The Covid-19 pandemic has had a significant impact on project operations. There have now been three periods when meetings and site visits were curtailed, in the early months of the pandemic, in November-December 2020, and again in Feb-March 2021 (still in effect at the end of this reporting period).
- 42 **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.

6.1.2 Stueng Saen Wastewater

- 43 Contractor is on site working. The Contractor is behind schedule – planned progress at the end of June 2021 is 16,52%, whereas actual progress is 12,73%.
- 44 Ongoing corrective actions regarding safeguards.
- 45 Variation Orders to cover increased cost for the following issues are being prepared:
- i. Additional cost for general works 1) UXO clearance and 2) Geotechnical Investigation. 1) UXO: The quantities included in the Contract was based on a rough estimate thus the additional cost is for UXO clearance for the areas necessary to clear. 2) Additional cost for Geotechnical Investigation (4 Bore holes, d=25-30m) and Soil tests in laboratory. WWTP was relocated after precontract geotechnical Investigation was done. The boreholes were required to certify soil quality and bearing capacity. The total cost for additional cost under general works is USD 34,538.11.
 - ii. Additional cost for access road to Wastewater Treatment Plant. This work consists of earthwork soil filling and compaction and reinforcement concrete is applied for road surface. The existing road to WWTP is earth road and the condition of road is very poor and effected by flood every year so to improve it we need rise the road level over flood level and for using long period it is applied by reinforcement concrete for surface road. The estimated cost of this additional work is USD 722,698.22.
 - iii. Earthworks in Wastewater Treatment Plant. This work consists of earthworks soil with more filling and compaction and less excavation. There are two major causes to the increase volume of soil works such as: 1. Contract BoQ miss line for soil filling in Maturation ponds; 2. Relocation of WWTP to a lower elevation gives more filling, specifically at the buildings area. The total estimated cost for additional works is USD 467,773.39
 - iv. HDPE Geo-membrane Pond Liner. The purpose of HDPE-liner in the ponds is to protect that wastewater escapes and pollutes ground water and that without liner seepage of wastewater would cause the malfunctioning of the wastewater treatment plant. This work consists of HDPE Geo-membrane Pond liner and application of Polyurethane Adhesive to Liner at laps. The estimated costs for the additional works are USD 470,084.62. Works reduced by change to HDPE Geo-membrane Pond Liner. The works of stone pitching, sand on the pond slopes and concrete in the Maturation Ponds are replaced by HDPE-Liner. The total saving is USD (150,587.59).
 - v. Additional cost for Sewer Manhole and Sewer Pipe. The quantities of the manholes and sewer pipes in contract BoQ and contract drawing are different. The main difference is that the pipes and manholes in the Contract drawings are at greater depths than anticipated in the BoQ. Thus, in the BoQ it is required to transfer many manholes and sewer pipes from depth 1-2 meter to depth of 2-4 meter and 4-6 meter. Unit prices for installation of manholes and pipes are higher with bigger depth therefore the costs increase. The cost for additional work is estimated at USD 437,888.69.

- vi. Additional cost for Drainage Collection Systems, U-drains. In contract BoQ part 3 the items 1 and 2 are reinforced concrete U-drain 0.5m wide with varying depth (0.5m to 1.5m) and reinforcement concrete cover U-drain 0.5m wide with thickness 100mm. Trough meetings between the Governor of Stung Saen, PMU, PIU, the contractor and PMC this work was agreed to be kept of reinforcement concrete U-drain 0.5 wide with varying depth (0.5m to 1.5m) but most of reinforcement concrete cover U-drain will need to be changed in thickness from 100mm to 150mm with two-layer rebar because the U-drains are built at traffic load run over. Furthermore, the covers for U-drains crossing roads are changed to steel grating for protection damage cover from heavy traffic load run cross every day. The grating will also increase run-off during rains. The cost for additional work is estimated at USD 564,964.69. The issue is, however, still not completely agreed upon, since the Governor is still concerned about the U-drain locations and design – and is pushing for new solutions reusing existing piped drainage.
 - vii. Additional cost for water supply pipe relocation. The location of the new U-drains crosses existing water supply pipes connections to the households as well as many main water supply pipelines. The methods of diverting the water supply pipes have been agreed with the water supply authority. The agreement with the authority is that materials for installation of water supply pipes are covered by the project whereas the installation is borne by the authority. The cost for diverting water supply house connections is based on actual counts on site, whereas cost of water mains has been estimated. The cost for additional work is estimated to USD 23,836.51.
- 46 **Recommended Actions:** Final preparation, budget evaluation and approval of the variation orders.
- 6.1.3 Battambang Wastewater**
- 47 No major issues, although contractor very slow to comply with all document submissions and approvals. Ongoing corrective actions regarding safeguards.
- 48 The variation order to cover increased cost for UXO-clearance and access road to WWTP have been prepared and submitted to ADB. The decision for approval has been postponed:
- 49 Additional cost for general works UXO clearance at WWTP. The quantities included in the Contract was based on a rough estimate thus the additional cost is for UXO clearance for the areas necessary to clear. The total cost for additional work is USD 23,080.00
- 50 Access road to Wastewater Treatment Plant. This work consists of earthwork soil filling and compaction and reinforcement concrete is applied for road surface. The existing road to WWTP is earth road and the condition of road is very poor and effected by flood every year so to improve it we need raise the road level over flood level and for using long period it is applied by reinforcement concrete for surface road. The estimated cost of this additional work is USD 2,107,589.22
- 51 Variation Orders to cover increased cost for the following issues are being prepared:
- Earthworks in Wastewater Treatment Plant. This work consists of earthworks soil with more filling and compaction and less excavation based on contractor's resurvey and compared with the anticipated quantities in the Contract. The total estimated cost for additional works is USD 415,820.52.
 - HDPE Geo-membrane Pond Liner. This change was proposed by PMC. The purpose of HDPE-liner in the ponds is to protect that wastewater escapes and pollutes ground water and that without liner seepage of wastewater would cause the malfunctioning of the wastewater treatment plant. This work consists of HDPE Geo-membrane Pond liner and application of Polyurethane Adhesive to Liner at laps. The estimated costs for the additional works are USD 754,742.56. Works reduced by change to HDPE Geo-membrane Pond Liner. The works of stone pitching, sand on the pond slopes and concrete in the Maturation Ponds are replaced by HDPE-Liner. The total saving is USD (235,448.95).
 - Length of Fence at WWTP. This work consists of more fence construction than anticipated in the BoQ of the Contract. The quantities are based on the measurements on the shop drawings

that are based on the WWTP Contract drawings. The estimated cost for the additional works is USD 18,283.00.

52 **Recommended Actions:** Final preparation, budget evaluation and approval of the variation orders.

53 New residential and commercial developments within and close to service area to be investigated for future servicing.

6.1.4 Serei Saophoan Wastewater

54 No major issues. Bid evaluation and contract award completed with contract signing on 19th April 2021. Resettlement impacts being finalised.

55 There are high numbers of Covid-19 cases in Serei Saophaon, therefore the contractor progresses at slow pace with the preparatory work for the start of the works. Start date is dependent on payment of advance payment for which request was submitted by the contractor on 5th July 2021.

6.1.5 Serei Saophoan Landfill

56 All options for use of additional land or the old dumpsite have been ruled out. DED now ongoing for accommodating all facilities within the original site. Concerns over stability of the quarry walls and filled areas. Cost of civil works expected to be significantly above PPTA estimate.

6.1.6 Stueng Saen Landfill

57 No major issues. DED completed and submitted. Contract signed 14th June 2021.

6.1.7 Battambang Landfill

58 When the contractor mobilised on site it was evident that excavations had continued after the site was acquired, after the topographical survey was undertaken by PMC, the survey on which the design was based. The contractor has also indicated that there is extensive hard rock that was not apparent from the geological survey.

59 PMC prepared a Technical Note that looked at several options. In discussion with PMU and ADB it was agreed to adjust the scheme so that no borrow material is taken from future cells 2 and 3. The contractor has submitted a Variation Order Request on this basis. Changes in earth works quantities and addition of rock breaking unit price in Variation Order No.1 with an increase in the Contract value of USD 525,593.19.

6.1.8 Support to GDR

60 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. 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.

6.1.9 IESIAs

61 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.

62 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. Whilst DEDs are yet to be finalised PMC cannot authorise final payments to the IESIA consultants.

- 63 **Recommended Actions:** IESIA consultants should coordinate more closely with PMC, synchronise with PMC schedules, and accept that DEDs can be delayed.

7 Work Plan

- 64 The summary schedule is shown in Annex D.
- 65 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	▪ Completion and submission of revised draft DED. ▪ Final DED following receipt of comments
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	▪ Assessment and discussions on equipment proposed in PMC report ▪ 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 ▪ 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 the Quarter

Date	
8 April 2021	Kick-off meeting with Contractor HSB for CW03c contract for the construction of Battambang Solid Waste Management (Skype Video Call)
8 April 2021	Site engineer and site supervisor site meeting number 4 with Contractor MCC for CW01 Lot1 contract to follow up on contractor's progress and outstanding issues (PMC Office, Stueng Saen)
13 April 2021	Site engineer and site supervisor site meeting number 3 with Contractor MTA for CW01 Lot2 contract to follow up on contractor's progress and outstanding issues (PMC Office, Battambang)
04 - 05 May 2021	National DTL, Site engineer and site supervisor meeting with Contractor MCC for CW01 Lot1 contract to follow up on contractor's progress and outstanding issues (PMC Office, Stueng Saen)
06 May 2021	PMC kick-off meeting with Contractor BUCG for CW02 contract for the Construction of Serei Saophoan Wastewater and Drainage (Skype Video Call)
17 May 2021	Site engineer and site supervisor meeting with Contractor MTA for CW01 Lot2 contract to follow up on contractor's progress and outstanding issues (PMC Office, Battambang)
17 -18 May 2021	ADB Special Project Administration Mission (Teams Video)
20 - 21 May 2021	National DTL, Site engineer and site supervisor site meeting with Contractor MCC for CW01 Lot1 contract to follow up on contractor's progress and outstanding issues (PMC Office, Stueng Saen)
24 May 2021	Site engineer and site supervisor site meeting with Contractor HSB for CW03c contract to follow up on contractor's progress and outstanding issues (PMC Office, Battambang)
14-15 June 2021	National DTL, Site engineer and site supervisor site meetings with Contractor MTA (CW01 Lot2) and Contractor HSB (CW03c) to follow up on contractor's progress and outstanding issues (PMC Office, Battambang)
17 June 2021	National DTL, Site engineer and site supervisor site meeting with Contractor MCC (CW01 lot1) to follow up on contractor's progress and outstanding issues (PMC Office, Stueng Saen)
28 June 2021	PMU, PMC, PIU and Contractor MCC (CW01 lot1) to have a meeting to discuss and solve some technical issues on site construction of U-drain (PIU Office, Stueng Saen)
29 June- 01 July 2021	National DTL, Site engineer, and site supervisor site meetings with Contractor MTA (CW01 lot2) and with Contractor HSB (CW03c) to follow up on their progress and outstanding issues (PMC Office, Battambang)

Annex C: Project Progress by Output

Activities	Weighting	Plan/Progress (%)	
Overall			
		Plan cumulative %	73.37%
		Progress to date %	68.24%
Output 1: Urban environmental infrastructure improved	70%		
		Plan cumulative %	70.71%
		Progress to date %	67.77%
Wastewater Treatment Plants, Sewerage and Drainage			
		Plan cumulative %	76.73%
		Progress to date %	74.68%
i. Stueng Saen WWTP, Sewerage and Drainage			
		Plan cumulative %	77.90%
		Progress to date %	75.93%
ii. Serei Saophoan WWTP, Sewerage and Drainage			
		Plan cumulative %	73.90%
		Progress to date %	71.16%
iii. Battambang WWTP, Sewerage and Drainage			
		Plan cumulative %	78.40%
		Progress to date %	76.95%
Wastewater Treatment Plants	20%		
		Plan cumulative %	76.57%
		Progress to date %	74.37%
i. Stueng Saen WWTP	33%		
		Plan cumulative %	77.40%
		Progress to date %	74.85%
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 %	27.00%
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 %	21.00%

ii. Serei Saophoan WWTP	33%		
		Plan cumulative %	73.90%
		Progress to date %	71.15%
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 %	12.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	12.00%
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 %	0.00%
iii. Battambang WWTP	33%		
		Plan cumulative %	78.40%
		Progress to date %	77.10%
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 %	27.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	27.00%
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%

Sewerage & Drainage	30%		
		Plan cumulative %	76.90%
		Progress to date %	74.99%
i. Stueng Saen Sewerage	33%		
		Plan cumulative %	78.40%
		Progress to date %	77.00%
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 %	28.00%
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 %	21.00%
ii. Serei Saophoan Sewerage and Drainage	33%		
		Plan cumulative %	73.90%
		Progress to date %	71.16%
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 %	97.00%
Monitoring of Social and Environmental Safeguards	5%		
		Cumulative %	13.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	13.00%
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 %	0.00%

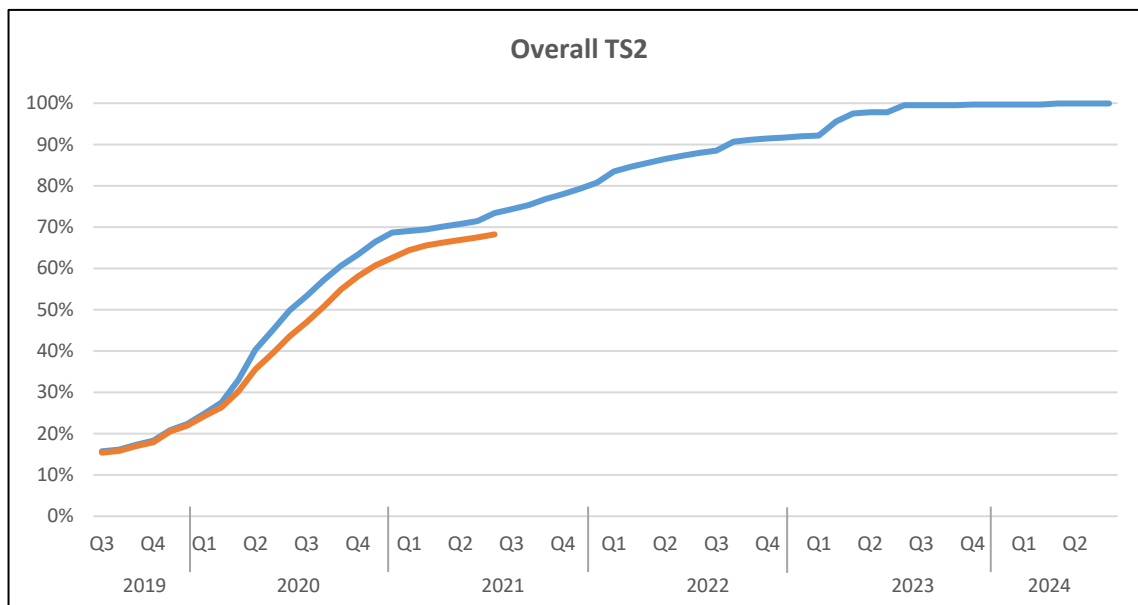
iii. Battambang Sewerage	33%		
		Plan cumulative %	78.40%
		Progress to date %	76.80%
Site Selection, Surveys and Approval	10%		
		Cumulative %	100.00%
Preparation of Resettlement Plan/Due Diligence Review	5%		
		Cumulative %	100.00%
Preparation/Updating and Approval of IEE & EMP	10%		
		Cumulative %	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 %	26.00%
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 %	21.00%
Landfills	15%		
		Plan cumulative %	74.10%
		Progress to date %	67.11%
i. Stueng Saen Landfill	33%		
		Plan cumulative %	74.30%
		Progress to date %	70.90%
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 %	13.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	15.00%
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 %	90.00%
Construction and Installation	20%		
		Cumulative %	0.00%

ii. Serei Saophoan Landfill	33%		
		Plan cumulative %	76.80%
		Progress to date %	59.44%
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 %	97.00%
Preparation of BOQ and specs	10%		
		Cumulative %	50.00%
Preparation of Bidding Documents	2%		
		Cumulative %	97.00%
Bidding process/Award of contract	5%		
		Cumulative %	0.00%
Construction and Installation	20%		
		Cumulative %	0.00%
iii. Battambang Landfill	33%		
		Plan cumulative %	71.20%
		Progress to date %	71.00%
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 %	4.00%
Implementation of GAP and Communication Plan	5%		
		Cumulative %	4.00%
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%

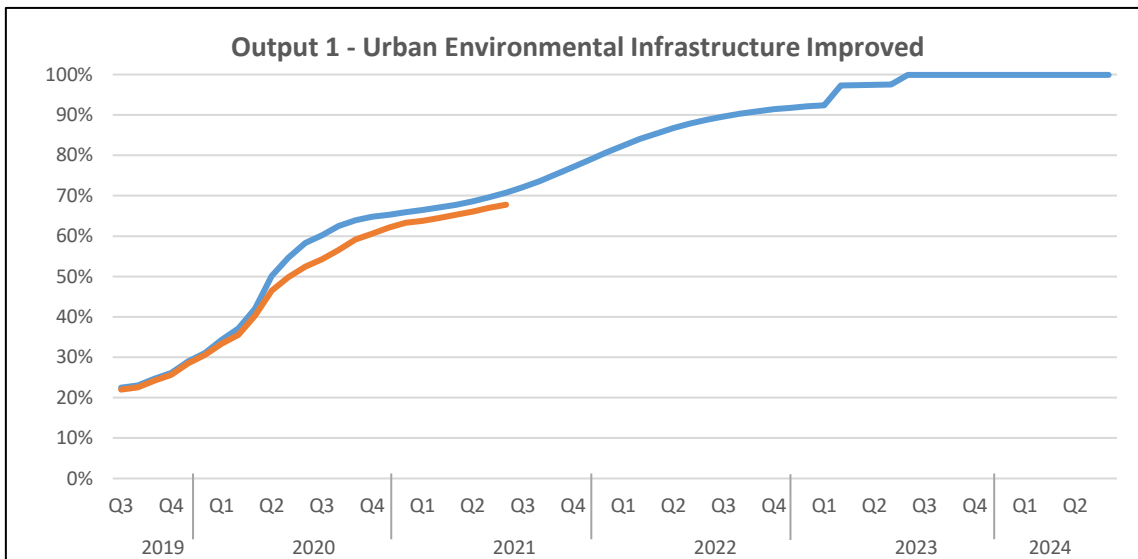
Staff Employed in O&M are women	5%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
i. Stung Treng O & M Staff	33%		
		Plan cumulative %	0.00%
		Progress to date %	0.00%
Staff employed in O&M are women	100%		
		Cumulative %	0.00%
ii. Serei Saophoan O & M Staff	33%		
		Plan cumulative %	0.00%
		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 %	38.69%
		Progress to date %	12.06%
a. Establishment of Urban Services Units	75%		
		Plan cumulative %	35.00%
		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 %	49.75%
		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 %	98.00%
a. Preparation of Land Use Master Plan	50%		
		Plan cumulative %	100.00%
		Progress to date %	97.00%
Stueng Saen	50%		
		Cumulative %	97.00%
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

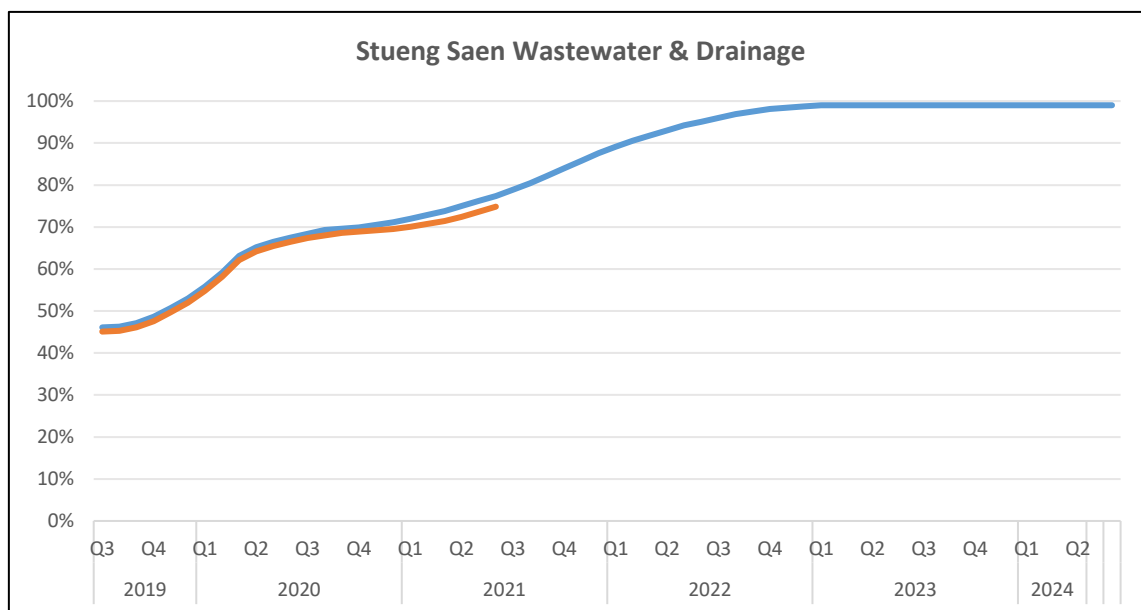
(Based on work plans prepared in April 2020)



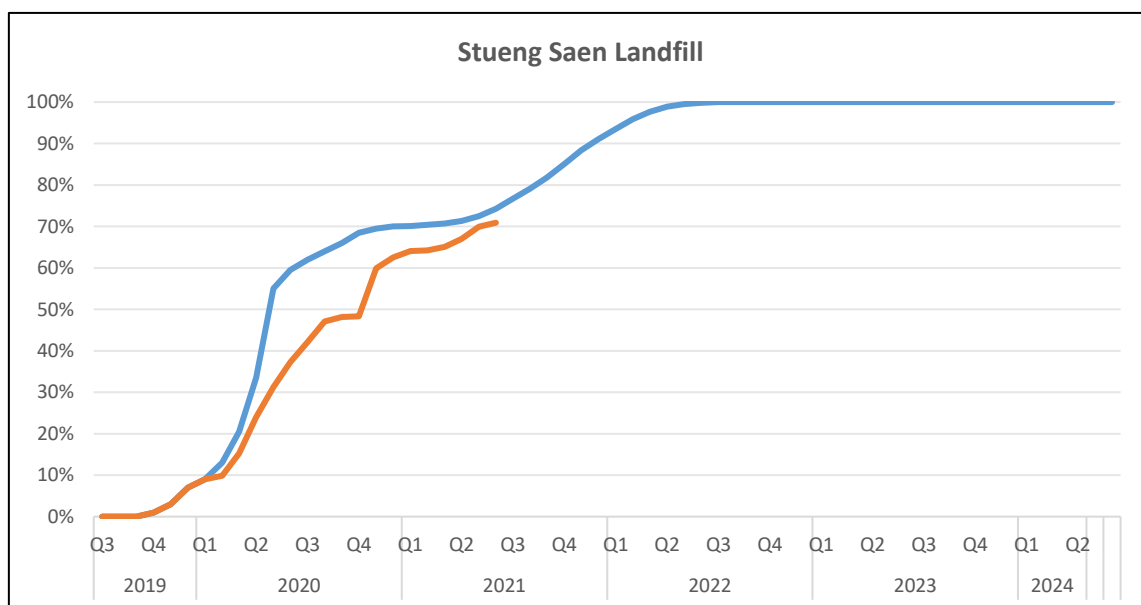
Plan 73.37% **Actual** 68.24%



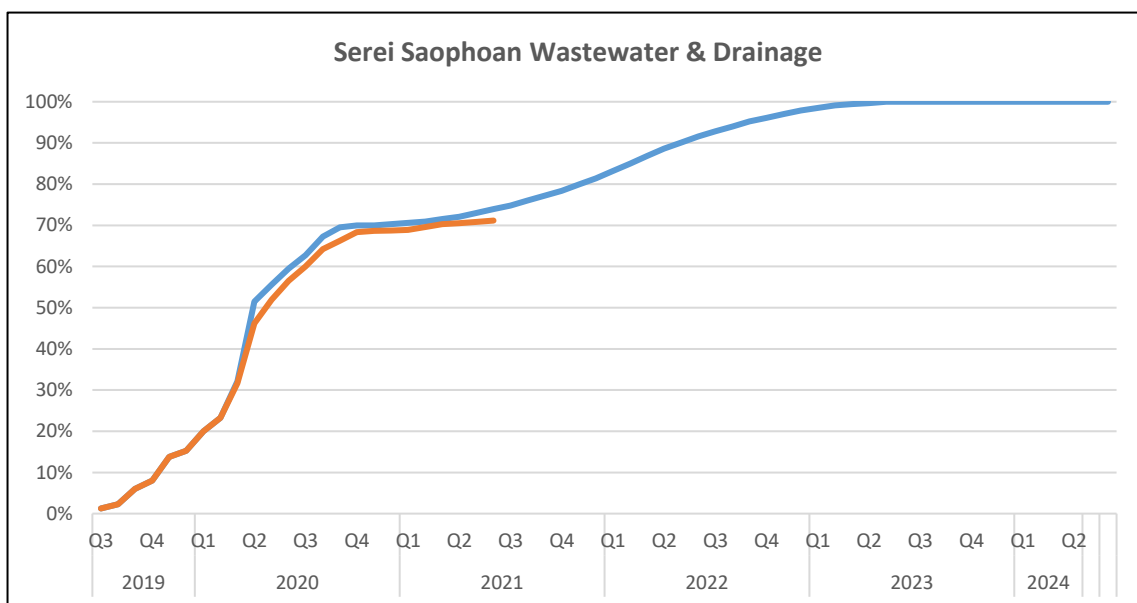
Plan 70.71% **Actual** 67.77%



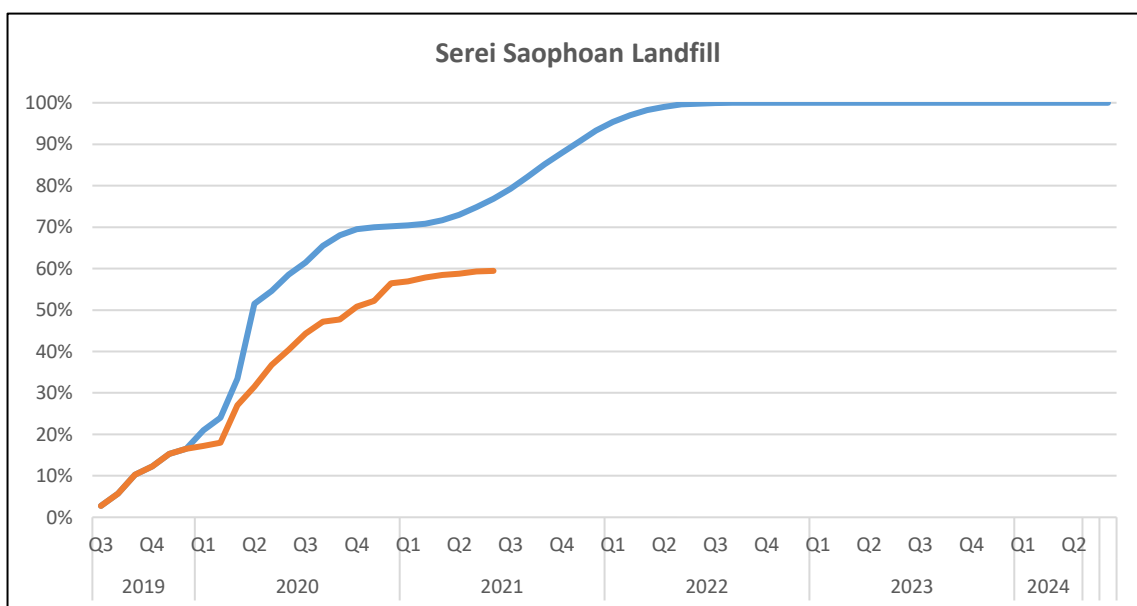
Plan 77.90% **Actual** 75.93%



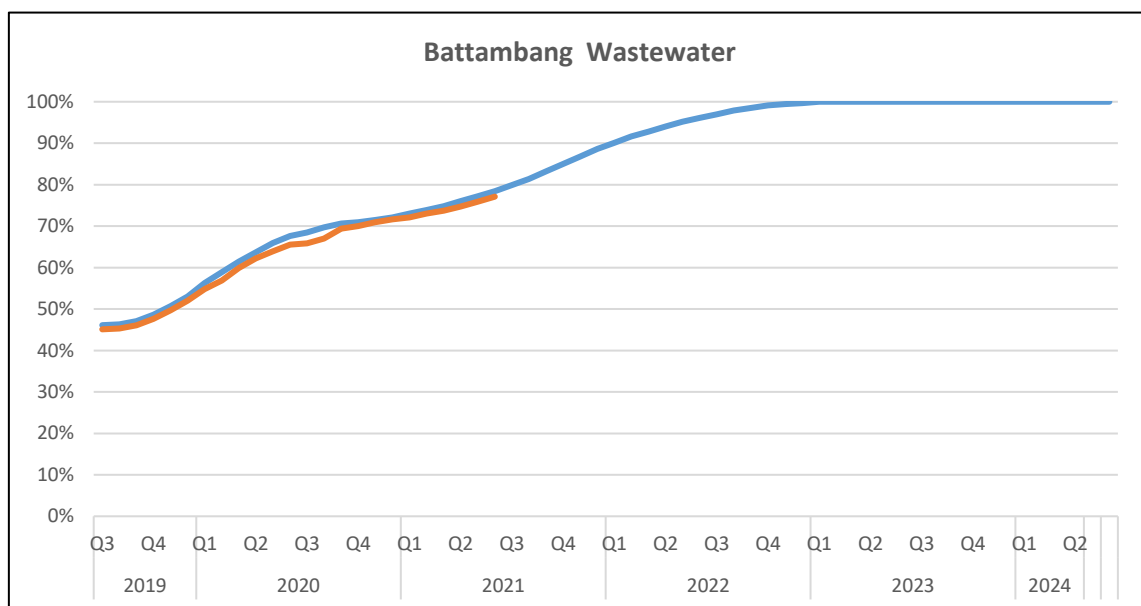
Plan 74.30% **Actual** 70.90%



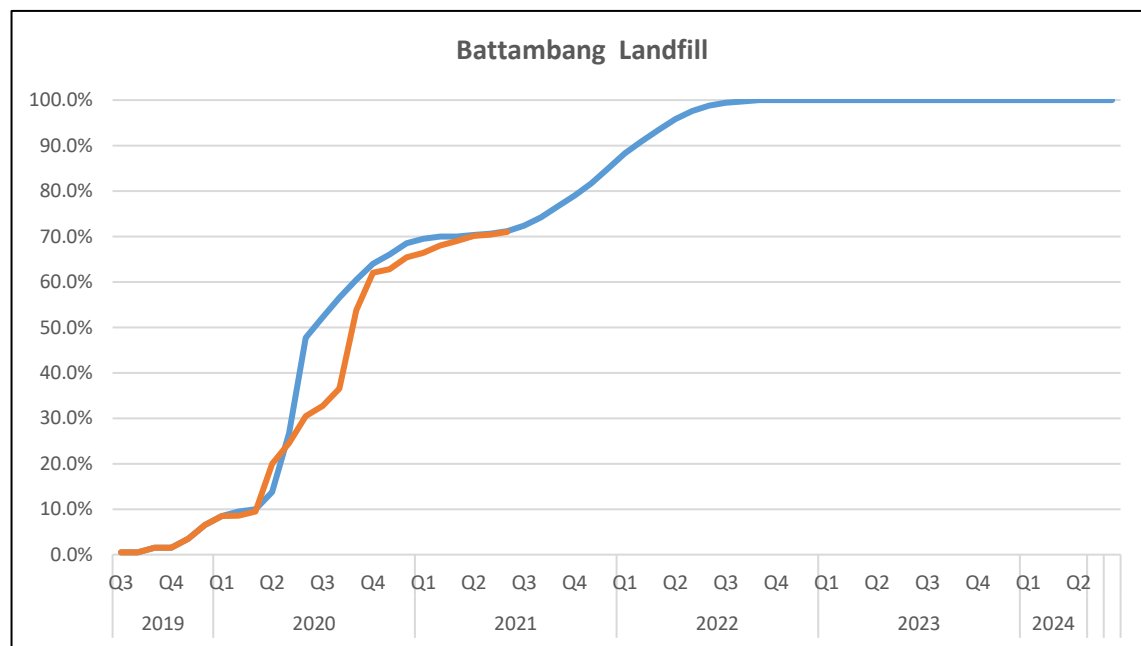
Plan 73.90% **Actual** 71.16%



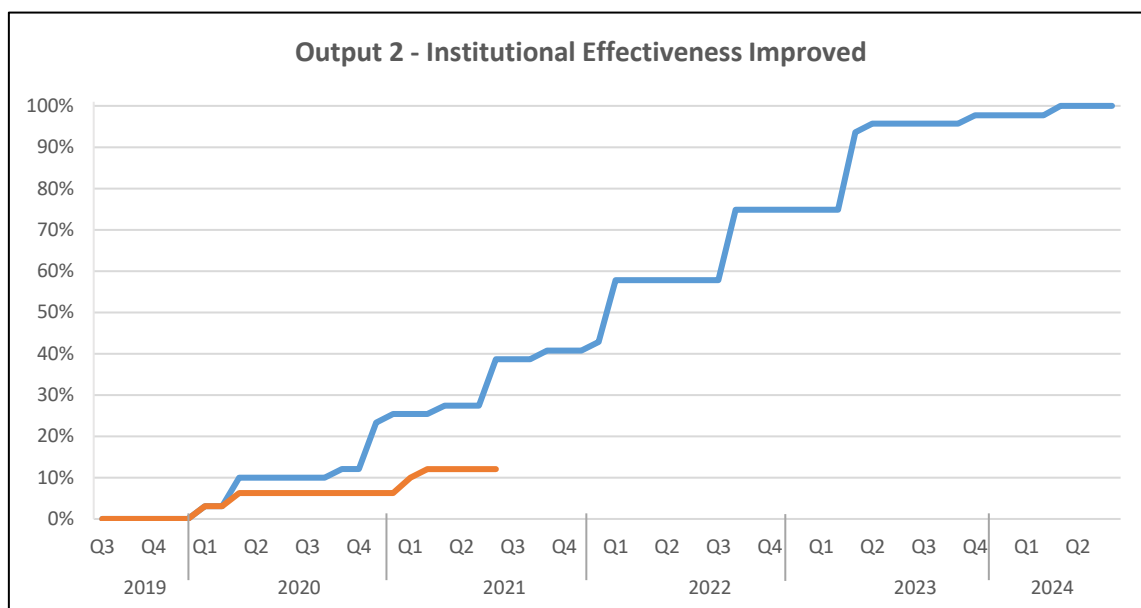
Plan 76.80% **Actual** 59.44%



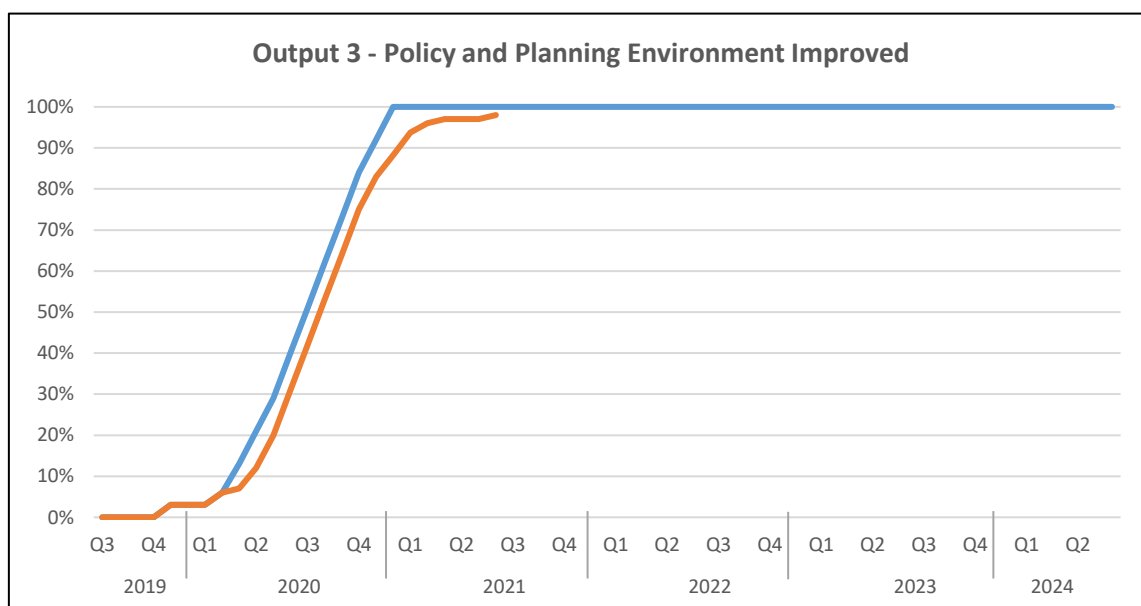
Plan 78.40% **Actual** 76.95%



Plan 71.20% **Actual** 71.00%



Plan 38.69% **Actual** 12.06%



Plan 100.00% **Actual** 98.00%

[illegible]

Annex E: Consultant Inputs (Time-based only)

Name	Position	Contract Amount	Contract Amount after Variation Order No.5	Cumulative to Q1 Mar'21	Q2 Period Apr-Jun'21	Total	Balance
International Expert							
Mr. Richard Mabbitt	Team Leader	27.00	27.00	8.26	1.24	9.50	17.50
Mr. Lars Orio	International Deputy Team Leader	22.41	22.41	9.30	2.66	11.96	10.45
Mr. Peter Peter Gammelgaard Jensen	Environmental Safeguard Specialist	5.00	5.00	2.49		2.49	2.51
Mr. Teemu Jantunen	Social Safeguard and Resettlement Specialist	5.00	7.50	5.00		5.00	2.50
Ms. Alice Thauvin	Finance and Institutional Specialist	5.00	5.00	0.08		0.08	4.92
Mr. Alexander Timmerman	Social Development and Gender Specialist	2.00	2.00	1.13	0.07	1.20	0.80
National Expert							
Mr. Ho Ratha	Deputy Team Leader (TS2)	55.00	55.00	16.96	3.00	19.96	35.04
Mr. Yim Chamnan	Environment Safeguards Specialist-1	14.00	14.00	6.64	0.23	6.87	7.13
Mr. Chan Narith	Social Safeguard and Resettlement Specialist-1	12.00	15.00	11.86	0.13	11.99	3.01
Mr. Chheav Nak	Institutional Development Specialist	8.00	8.00	0.32		0.32	7.68
Mr. Sem Chenda	Site Engineer-1 (Battambang)	25.00	25.00	6.00	3.00	9.00	16.00
Mr. Saing Soveasna	Site Engineer-3 (Steung Saen)	25.00	25.00	7.94	3.00	10.94	14.06
Mr. Chuon Sokcheak	Site Supervisor-1 (Battambang)	30.00	30.00	5.00	3.00	8.00	22.00
Mr. Ham Laycheang	Site Supervisor-3 (Steung Saen)	30.00	30.00	7.94	3.00	10.94	19.06

Annex F: Gender Action Plan Monitoring

Gender Action Plan (GAP Activities, Indicators and Targets, Timeframe and Responsibility)	Progress to date – accumulated (as of June 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 draft 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 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 draft 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 draft 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 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.	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 draft 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. 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.	Identification of the HH to be conducted by the PIU/City through the procurement of an NGO.

	Target is included in the draft TOR for the NGO to be subcontracted for IEC.	
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 governments, with consultation from MEF, MIH, MOWA, MRD and other relevant agencies (2018 baseline: N/A) Responsibility: PMU/PIUs	Not yet due: Q4 2022	Relation to GAP unclear
Action 2: Urban development strategy and master plan, with climate resilience and gender responsive measures,	Not yet due: Q4 2022	Note that scope has changed to Land Use Master Plans (LUMP), while Battambang town has prepared the LUMP. Therefore, action is proposed

developed and approved in all three cities. (2018 baseline: N/A) Responsibility: MLMUPLC/PMC	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%	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 draft 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