

KINGDOM OF CAMBODIA
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Ministry of Public Works and Transport



**Integrated Urban Environmental Management
in the Tonle Sap Basin Project**

QUARTERLY PROGRESS REPORT NO. 18
01 April to 30 June 2021

July 2021

Installing Main Drainage Pipe Line in Pursat



Consulting Services for Project Management and Implementation Support (PMIS, Package 1)
Integrated Urban Environmental Management in the Tonle Sap Basin Project (IUEMTSBP)
ADB LoanNo.3311-CAM (SF) / 8295-CAM (SCF) / Grant 0454-CAM--Contract No. PMU/MPWT/IUEMTSP/QCBS/16/001

INTEGRATED URBAN ENVIRONMENTAL MANAGEMENT IN THE TONLE SAP BASIN PROJECT

QUARTERLY PROGRESS REPORT No.18

01 APRIL- 30 JUNE, 2021

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ABBREVIATIONS

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

1 EXECUTIVE SUMMARY

1.1 Background

1. The project was approved on 10 November 2015 and declared effective on 2 March 2016. Financing for the \$52.6 million project includes a SDR 26,4M (USD 37M equivalent) loan from ADB (Asian Development Fund) and \$10 million (\$5 million loan and \$5 million grant) from the Strategic Climate Fund. The project aims to increase economic activities and environmental protection in the towns of Kampong Chhnang and Pursat in the Tonle Sap Basin. The outcome is expected to be improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities. The project has five outputs: (i) Kampong Chhnang Urban Area Improvements; (ii) Pursat Urban Area Improvements; (iii) Community Mobilization and Environmental Improvements, (iv) Strengthened Sector Coordination and Operations and (v) Strengthened Capacity for Project Implementation and operations and maintenance (O&M). Construction of a new landfill facility and improvement of solid waste management and community-driven environmental improvements in Kampong Chhnang; and improvement of the combined storm water drainage and sewerage system including the construction of a new WWTP, construction of a new landfill facility improvement of solid waste management, reconstruction of the Pursat river embankment at the Kaoh village and community-driven environmental improvements in Pursat. The MEF has confirmed its request for the cancellation of the Kampong Chhnang flood protection embankment. It is expected that in July the ADB will confirm the approval of the project scope change that provides funding for the Kampong Chhnang Sewerage, flood protection and wastewater treatment subproject. Under the scope change the loan closing date will be extended from 30 April 2023 to 30 April 2024

1.2 Overall Project Progress

Based on the present implementation schedule not considering the pending extension of the project closing date, the overall physical progress of project implementation as of 31 June 2021 is 55.4% versus an elapsed time of 73.3% The progress of the different project outputs can be summarized as follows:

Elapsed Time	74.42%
Physical Progress	55.36%
Contract Award Lag	36.15%
Disbursement Lag	56.60%
Project - Lag	19.06%

2. It is estimate that construction/improvement of the Kampong Chhnang sewerage and drainage systems, (construction time, defect liability period, O&M support) will take until the end of the 2nd quarter in 2023. It is now expected that the project scope change will be approved by the middle of July. After the project scope change is approved the baseline for the project implementation schedule will have to be updated to reflect the extended project implementation period.

Kampong Chhnang Urban Environmental Improvements

Flood Protection Embankment	Has been cancelled, Project scope change memorandum has been prepared.	
CW10 Kampong Chhnang Sewerage, WWTP and Drainage Improvement	Detailed design	Draft DED has been completed and submitted for review to ADB, comments have been received and are being addressed, incorporating ADB comments in the DED will be completed by the second week of July
	IEE/EMP	The IEE and EMP have been submitted to ADB, comments have been received and are being incorporated in the documents
	BRP	Has been approved by ADB
	Tender & Contract award	Bid documents have been submitted to ADB, comments have been received and the required changes/edits have been completed
	Construction	To be started
Construction Landfill	Progress 79%	

CW06 Lot 1, Kampong Chhnang Landfill	Contract status	VO1 has been submitted for approval and includes the construction of an additional cell for the Kampong Chhnang and Pursat landfills and a constructed wetland in the Pursat landfill. Under VO1 the cost of the works exclusive of contingencies will increase with USD 147,543.10 from USD USD 9,601,831.26 to USD 9,749,378.50The contract price of USD 9,834,116.59 after this VO-02 will remain unchanged
	Basic site development	Soil filling and cut/fill balancing has been completed
	Landfill Cells and Leachate treatment	Excavation and formation of Landfill cell and leachate collection ponds completed. Works on the additional landfill cell included in VO1 to be started
	Boundary, internal roads, drainage	Original proposed Boundary wall completed, the extension of the wall as requested by PIU is included in VO1 and works are ongoing, works on the internal roads are ongoing
	Admin Building and Facilities	Completed
	Tree plantation, green areas, site finishing works	Tree planting to be started
Pursat Urban Environmental Improvements		
CW05 Improvement Drainage in Pursat Town and Waste Water Treatment	WWTP	Progress 66%
	Overflow, Primary treatment, Anaerobic tank & filter, Chlorination Chamber	Structural works are completed. Pump installation and other electro mechanical works to be started
	Reed Beds	Excavation completed Membrane Lining, Filter installation and Reed plantation to be started
	Sludge drying bed	Completed
	Admin Building and Facilities	Completed, including raising the levels of the administrative building and equipment shed
	Site Development	Soil filling, including addition filling for flood protection has been completed. Construction of boundary wall to be completed
	Improvement of Drainage Canal	Canal reshaping and embankment strengthening completed. 14 additional culverts have been installed in the canal embankment to improve drainage of the adjacent low lying areas (VO1). The design for improving the outlet of the canal to the natural drain to be started
	Installation of New Combined Drainage Sewerage lines	Progress 38%
	Installation of pipe lines	11 km of the total of 23.7 km pipe lines has been installed including manholes and connection with the existing drainage lines
	Reinstatement of Pavement	Pavement reinstatement to be started
Construction Landfill		Progress 73%

CW06 Lot 2 Pursat Landfill	Access Road	Second layer of bituminous treatment to be installed
	Basic site development	Soil filling has been completed
	Landfill Cells and Leachate treatment	Excavation and formation of Landfill cell and leachate collection ponds completed. Earthworks for the additional landfill cell included in VO1 to be started
	Constructed wetland	A constructed wetland has been included in VO1, works on the wetland to be started
	Boundary, internal roads, drainage	Boundary wall has been completed, On the internal roads a second layer of bituminous treatment is yet to be installed, drainage works have been completed
	Admin Building and Facilities	Completed
	Tree plantation, green areas, site finishing works	To be started
Decommissioning of the existing dumpsite	Preparatory works	A basic assessment has been made of the spread of the waste, the volume to be moved, and detailed survey requirements
	Detailed survey and design	Has been delayed because of the COVID situation
	Implementation	Modality for undertaking the works to be decided
Safeguards		
Environment		
Resettlement	Preparation of safeguard documentation	The COI for the Kampong Chhnang Sewerage, WWTP and Drainage works have been established
	Monitoring Reports	The SSMRs for 2020 have been revised based on comments of ADB and resubmitted except for the details payment of compensation and other entitlements, which is to be provided by GDR
Gender Action Plan	Monitoring	The GAP has been updated
	Implementation	Because of the COVID restrictions it has not be possible to undertake the planned training activities under the GAP
Community Managed Environmental Improvements		
Improvement of sanitation in Pursat	Toul Mkak and Kaoh villages	A works contract for the installation of 64 pit latrines in the Tould Mkak village and 38 latrines in the Kaoh village has been awarded and installation of latrines in both villages has been started but works in the Kaoh village had to be suspended because of a COVID outbreak in the village in June
		Reconstruction of the Pursat river embankment has been substantially completed but was suspended because of a COVID outbreak in the village

Kbal Hong village	The installation of the main drainage line 7 has been completed and a first assessment for the connections of the household along the banks of the old irrigation canal has been completed. A detailed inventory of the existing sanitary installation and paths for connection to the main drainage line has to be made. This is not possible with the present COVID emergency
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1.3 Consultant Services

3. The elapsed time of the consultant contract is 82%, the status of personnel input up to the end of this reporting period, 31 March 2020 can be summarized as follows:

Specialists	Total p/m	p/m used	Balance	Percentage P/M used
International	81.0	66.7	14.3	82.3%
National	355.0	256.9	98.1	72.4%
Total	436.0	323.6	112.4	74.2%

4. Since the project closing date will be extended from from the end of October 2022 to the end of October 2023, a VO5 of the contract for consultant services is will be prepared during the next quarter in which it is proposed to extend the contract period from the end of June 2022 to the end of June 2023, mainly to provide for the construction supervision of CW10 together with the required safeguard monitoring .

5. The consultant services are still being seriously affected by the travel restriction imposed because of the COVID 19 pandemic. These restrictions make it very difficult to impossible to mobilize short term international experts which has hampered in particular the preparation of the DED for the Kampong Chhnang sewerage system and drainage improvements.

1.4 Targets for the next quarter

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

- DED, BOQ, Cost estimates will be finalized based on comments of ADB
- Final IESIA report will be submitted to MoE for the inter-ministerial meeting and obtaining the environmental license
- Online management system for asset management and masterplan preparation will be activated
- CW05 – VO3 for pavement reinstatement and improving the outflow from the drainage canal in the natural drain will be prepared
- CW06 - VO2 for additional works in the Kampong Chhnang and Pursat landfills will be prepared
- G07 Requirements, Specification and Bidding Documents will be finalized for the procurement of SWM equipment for Kampong Chhnang and Pursat
- Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions
- Demarcation of the COI for the Kampong Chhnang Sewerage, WWTP and Drainage system to facilitate the conducting the resettlement DMS by GDR after the scope change approval
- Construction supervision will be continued as far as the COVID restriction will allow the supervision activities
- VO5 for the PMIS consultant services will be prepared to extend the contract till July 2023 and provide the additional resources and inputs required for the construction supervision of the Kampong Chhnang sewerage, flood protection, and wastewater treatment

2 PROJECT BACKGROUND

2.1 Background

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

- (i) Kampong Chhnang Urban Area Environmental Improvements Subject to the approval of the project scope change, the environmental improvements will include; (i) the construction of a new sewerage system for the urban center with 16.4 of main sewer lines and 25 km of lateral lines, the construction of a WWTP with a capacity of 5.4 m³/d on landfilling outside the old embankment east of the urban center, (ii) Cleaning of approximately 22 km of existing drainage lines and selective improvement of the existing drainage system by installing approximately 19 km of new drainage lines to reduce the frequency and severity of storm water flooding and, (iii) the improvement of solid waste management through the construction of a new controlled landfill together with the provision of the required equipment,
- (ii) Pursat Urban Area Environmental Improvements through; (i) the improvement of the combined storm water drainage/sewerage system in the town area on the west bank of the Pursat River; (ii) the construction of a WWTP, and the construction of a new controlled landfill site; (iii) The improvement of the Pursat river embankment at the Kaoh village
- (iii) Community Mobilization and Environmental Improvements, to support the Kampong Chhnang, and Pursat urban area developments through community driven environmental improvements, which focus on on-site sanitation improvement for ID 1 and ID 2 poor household, and promoting community awareness and participation for SWM
- (iv) Strengthened Sector Coordination and Operations and
- (v) Strengthened Capacity for Project Implementation and operation and maintenance (O&M) of urban infrastructure for the created infrastructure.

2.2 Project Basic Data

Project Title	Integrated Urban Environmental Management in the Tonle Sap Basin Project		
Project Acronym	IUEMTBP		
Project Financing	Asian Development Bank ADF Loan	SDR 26,4M (USD 37M equivalent)	3311-CAM (SF)
	ADB Strategic Climate Fund loan	USD 5M	8295-CAM (SCF)
	ADB Strategic Climate Fund grant	USD 5M	0454-CAM (SCF)
Borrower	Kingdom of Cambodia		
Project Approval	10 November 2015	Signing of Loan	22 March 2015
Date of Effectiveness	02 March 2016	Closing Date	30 April 2023
Project Completion Date	30 October 2022	Overall project implementation progress	51%
Elapsed Period	74.4%	Revised Loan Closing Date	N/A
Progress on Contract Award and Disbursement	Contract Award	38.7%	Disbursement 22.7%
Project Executive Agency	Ministry of Public Works and Transport (MPWT)		
Project Director	H.E. Vong Pisith, Deputy Director General MPWT		
Consultant ISPMC	KECC in JV with NIRAS and associated with KCC		
Team Leader	Mr. Louis Rijk,		
Dep .Team Leader	Mr. Srey Socheat		
ADB Task Manager	Mr. Alexander Nash		

2.3 Document

Document Title	Quarterly Progress Report No. 18
Reporting Period	01 April to 30 June 2021
Author(s) & project role	Louis Rijk Team Leader/Municipal Engineer PIMS,

2.4 ADB Review Missions

8. Altogether ADB has fielded 12 Missions; Loan Inception Mission, Review Mission, follow up meeting, 4 Implementation Review Missions a Midterm Review Mission and 2 follow up missions on the MTR. Because of the travel restriction imposed because of the COVID pandemic ADB missions are suspended.

Table 2-1 : Details of ADB Missions

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

S. No.	Nature of Mission	Duration	Name and Designation of Participants from ADB	Total Nos. of Participants from ADB
2	Implementation Review Mission	September 10-13 2018	Sameer A. Kamal, Urban Development Specialist / Mission Leader, Urban Development Urban Development Specialist, SEUW; Biswanath Debnath, Safeguards Consultant (Resettlement), SEUW; Ea Sophy, Safeguards Consultant (Resettlement), CARM; and Sethy Sour, Safeguards Consultant (Environment), CAR	4
2019				
1	Implementation Review Mission (the mission also covered TS2 GMS2 and GMS4)	26 February to 4 March 2019	Vijay Padmanabhan Director Urban Development and Water Southeast Asia Department. Alexander Nash, Urban Development Specialist. Ms. Kim Swain, Urban Development Specialist, Javier Coloma Brotons, Rangina Nazrieva, Virginia E. Villanueva	6
2	Mid-Term Review Mission	23 May to 28 May 2019	Alexander Nash, Urban Development Specialist, SEUW; Javier Coloma Brotons, Urban Development Specialist (Water Supply and Sanitation), SEUW; Virginia E. Villanueva, Project Analyst, SEUW; Rangina Nazrieva, Social Development Specialist (Resettlement), CARM; Sethy Sour, Environmental Specialist (Safeguards), CARM; and Chandy Chea, Gender Officer, CARM	6
3	Follow up mission on MTR	21 July to 1 August 2019	Alexander Nash, Urban Development Specialist, SEUW Sophy Ea (CARM)	2
4	Follow up mission on MTR	3 to 6 September 2019	Alexander Nash, Urban Development Specialist, SEUW Tran Quy Suu (ADB safeguards consultant),	2
5	Implementation Review Mission	9 to 13 March 2019	Alexander Nash, Urban Development Specialist, SEUW	1
2020				
1	Implementation Review Mission	3 to 11 February 2020	Alexander Nash, Urban Development Specialist, SEUW, Virginia Villanueva, Project Analyst. Meenakshi Ajmera, Principal Safeguards Specialist, and Rangina Nazrieva, Safeguards Specialist (Resettlement)	

2.4 Project Monitoring Sheet

9. The following table presents the project monitoring sheets which summarizes the major issues, the proposed actions and the target date for completion of these actions. The ongoing works for the Pursat and Kampong Chhnang landfills and for the Pursat drainage system are advancing without any major problems and will be completed before the present closing date of the project. The main pending issue is the approval of the project scope change and the related extension of the loan closing from April 2023 to April 2024. This approval is expected in July 2021, and only after this approved the bidding process for the Kampong Chhnang sewerage, drainage and WWTP can be started with a possible contract award by the end of 2021, which leaves a tight schedule for completion of all the works under this project component

<p>Contract Award \$18.43 Disbursement. \$ 10.92 CA % 38.46% Disb % 22.72%</p> <p>Critical:</p> <p>Project Scope Change: CW10 DED and contract award Kampong Chhnang Sewerage Flood Protection and Wastewater Treatment</p>	<p>CW10 Preparation of the Detailed Engineering Design for the sewerage system, WWTP and drainage improvements, BOQ, Cost estimates Technical Specifications and bidding documents</p> <p>CW06 Lot 1 Kampong Chhnang Landfill. The Local Authority has requested to extend the fence around the portion of the landfill area that will not yet been developed. It is also proposed to add an additional cell which will increase the useful life of the landfill with a proximately 10 years without the need for additional investment</p> <p>Closure of existing dumpsite site is a performance indicator in the DMF, and a loan covenant due after the completion of the new controlled landfills (Sched 5, para 6). The existing dumpsite is located on private land and therefore MPWT cannot invest in the closure of the dumpsite.</p> <p>B Pursat</p> <p>CW05 Pursat Drainage and WWTP. The extreme flooding with a maximum level of 15.13 m, required a redesign of the WWTP site, to protect the plant from potential future flood damage and additional improvements of the existing drainage canal.</p>	<p>of 19 km of drainage lines and; (ii) pavement for 9.5 km unpaved road sections in the urban area</p> <p>Comments from ADB on the The DED, BOQ, Cost Estimates, technical specifications have been received and the documents are being finalized based on the comments</p> <p>ADB has issued the NOL for VO1 for CW06 lot 1 . The VO includes additional quantities required for the construction of an additional cell, extension of the site fencing and additional quantity for excavation in hard rock for the drainage system</p> <p>Closing of the dumpsite using public funds would be possible though an expropriation process by the government of the land on which the dumpsite is located</p> <p>.</p> <p>ADB has issued the NOL for VO1 of CW01 that comprises raising the overall level of the WWTP site to 15.4 m including the equalization tank and the chlorination unit as well as the administrative building, equipment shed guard house and access road and access roads The embankment on both sides of the irrigation canal that provides for the discharge of storm water run-off from the Pursat town center has been raised to 15.4 and 14 additional drainage culverts have been provided to improve the drainage of the</p>	<p>July 2021</p> <p>by 23/04/2021</p> <p>ADB NOL for the VO1 has been received and works under the VO have been started</p>
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	<p>The repeated flooding events in Pursat during the month of October 2020 have damaged the river embankment along the Pursat river at the village of Kaoh. The village is included in the Project as a part of the Community Managed Environmental Improvements (CMEI) component of the project. Under this component sanitation improvements will be implemented in this village which include the installation of VIP latrines. However, these sanitation improvements cannot be successfully implemented without the repair of the damaged river embankment to protect the village from flooding during high water levels in the river. It has therefore been agreed to include the repair of the river embankment under VO2 of the CW05 works contract. The repair will involve the restoration of 1.5 km river embankment</p> <p>CW06 Pursat Landfill. It is proposed to add an additional cell which will increase the useful life of the landfill with a proximately 10 years without the need for additional investment. Leachate and storm water collected from the cells has to be stored on-site. Therefore it is proposed to add a constructed wetland to the 2 leachate treatment ponds</p> <p>Closure of existing dumpsite site is a performance indicator in the DMF, and a loan covenant due after the completion of the new controlled landfills (Sched 5, para 6). As part of the bankruptcy procedures of the former SWM contractor ownership of a portion of the land on which the dumpsite is located is been transferred to the Municipality.</p>	<p>surrounding low-lying areas. Works under VO1, except for the paving of the canal embankment road has been completed</p> <p>ADB has issued the NOL for for the repair of the river embankment at the Kaoh village. The reconstruction works has been substantially completed however in June works had to be suspended because of a COVID outbreak in the village</p> <p>ADB has issued the NOL for VO1 for the additional work items and quantities for the construction of an additional cell and a constructed wetland. The works under the VO have been completed except the construction of the wetland which is ongoing</p> <p>To close the dumpsite all waste deposited on the private land would have to be transferred to the 1 ha site that is being transferred to the Municipality. It is not clear if public funds can be used to move waste from adjacent private land to the site that is being transferred to public ownership. The transfer of waste from private to public land would be the largest cost component of the closure of the dumpsite</p>	<p>Collection of drone imagery and spot survey of the dumpsite was scheduled for the first week of April. Because of COVID restrictions these activities will have to be rescheduled</p>
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	<p>2. Contract Awards & Procurement CW05 Pursat Drainage and WWTP, contract variation VO1 for additional works resulting from the Pursat flood events in October 2020, and VO2 for the reconstruction of the Kaoh village embankment</p> <p>CW06 VO1 for time extension of lot 1, and additional works for lots 1 and 2</p>	<p>Contract has been awarded and ADB has issued NOLs for VO1 and VO2.</p> <p>VO3 will be required for the improvement of the outflow from the irrigation canal into the natural drainage to control the water at the outflow of the Pursat drainage system. In addition the provision for pavement reinstatement will have to be increased</p> <p>Contract has been awarded and ADB has issued the NOL for VO1.</p> <p>VO2 will be required for the construction of a wetland in the Kampong Chhnang landfill and minor works for landscaping</p>	<p>30 August 2021</p> <p>30 August 2021</p>
	<p>3. Disbursement Because of the cancellation of the Kampong Chhnang flood protection embankment, actual disbursement is far behind the target set forth in the original CAD. Disbursement is also slightly behind the revised disbursement schedule.</p>	<p>Disbursement will stabilize after the approval of the project scope change and award of the CW10 works contract</p>	<p>Scope change approval is being processed by ADB</p>
	<p>4. Safeguards ADB has accepted an amendment of the loan covenant that now requires the establishment of USUs prior to the handover of the completed landfill facilities. The government has confirmed to ADB that sufficient financial resources will be made available to cover the cost of operation of the landfill facilities</p> <p>Semi-annual monitoring report</p>	<p>Support for establishment of USUs was to be provided under a new TA for institutional support and financial management. This new TA has not yet been established</p> <p>The semi annual social and environmental safeguard report have been submitted through PMU to the ADB.ADB comments are being addressed</p>	<p>No target date available</p>

	<p>Safeguard documentation for CW10 Kampong Chhnang sewerage, drainage and WWTP</p> <ul style="list-style-type: none"> • IEE/EMP • BRP • IESIA • DRP 	<p>Submissions and approvals</p> <ul style="list-style-type: none"> • Has been approved by ADB • Has been approved by ADB • Under preparation, draft final report submitted to MOE • Preparation to be started 	<p>September 2021 December 2021</p>
	<p>5. <u>GAP and Financial Management</u> No Major Issues</p>	<p>An updated GAP has been included in this progress report</p>	
	<p>6. <u>Institutional & Consultants</u> The establishment of Urban Services Units(USU) are a loan covenant required for contract award for package CW06 and CW08 (the landfill sites).</p> <p>In VO4 of the PMIS consultant contract responsibilities for institutional development were removed from the scope of services and the preparation of the DED for the Kampong Chhnang sewerage and drainage subproject was added to the scope tasks. VO5 will be required to extend the contract period to match the extension of the project period and additional resources will have to be added for construction supervision and safeguard monitoring</p>	<p>In the MOU of 20 February of the project implementation review mission it was recommended that recommends that MEF and MPWT consider pooling the institutional components of the ADB urban portfolio into a single consulting package, financed from selected participating urban project loans, to appoint a single consulting firm with the scope of developing solid waste and wastewater billing, financial and service management systems for participating towns. ADB will prepare the TOR for these consultant services</p> <p>After the project scope change is approved by ADB an additional VO will be required to provide for these resources.</p>	<p>It seems that consultant services for “Cost Recovery for Urban Drainage and Sanitation Services” is in the final stage of approval. It is not clear if there will be any relationship between these services and the project.</p> <p>30 August 2021</p>

3 FINANCING AND FUND UTILIZATION

3.1 Financing

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

The following table 2-1 summarizes project financing by financier

Table 3-1: Financing by financier

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

11. Table 2-4 presents the project investment plan for the 4 components of the project as agreed in the PAM. The following table will have to be updated after the project scope change has been approved by ADB and the revised PAM has been disclosed. It is estimated that the total cost of the Kampong Chhnang new sewerage system, WWTP and drainage improvement will amount to USD 23.6M including taxes and duties.

Table 3-2 : Project Investment Plan (\$ million)

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

ADB = Asian Development Bank, SCF = Strategic Climate Fund

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

In September 2015 prices.

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

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

Source: Asian Development Bank estimates

3.2 Fund utilization

12. The following table 2.5 presents the consolidated status of loan and grant proceeds. The details of the fund utilization are presented in annex 2.

Table 3-3 : Consolidated Status of Loan and Grant Proceeds

As of 30 Jun 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 3311	37,497,400	14,164,627	23,332,774	6,799,086	30,698,314	7,365,540
Loan 8295	5,000,000	-	5,000,000	-	5,000,000	-
Grant 0454	5,000,000	4,118,010	881,990	3,977,433	1,022,567	140,577
Government	5,400,000	147,264		147,264	5,252,736	-
Total	52,897,400	18,429,900	29,214,764	10,923,783	41,973,617	7,506,117

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

Elapsed Time	74.42%
Physical Progress	55.36%
Contract Award Lag	36.15%
Disbursement Lag	56.60%
Project - Lag	19.06%

Table 3-4: Grant Utilization (Grant 0454)

As of 30 Jun 2021							
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - PS Drainage	2,460,000	2,460,000	-	2,460,000	-	-
01B	CW - KC Sanitation Improvement	510,000	-	510,000	-	510,000	-
01C	CW - PS Sanitation Improvement	510,000	-	510,000	-	510,000	-
02A	WS - NGO SCEI	200,000	-	200,000	-	200,000	-
02B	WS - CCAUD	10,000	1	9,999	-	10,000	1
03A	CS - CCAUD	200,000	290,794	(90,794)	290,496	(90,496)	298
03B	CS - NGO SCEI	810,000	1,267,214	(457,214)	932,937	(122,937)	334,277
03C	CS - Survey and Investigation	100,000	100,001	(1)	100,000	-	1
04	Unallocated	200,000	-	200,000	-	200,000	-
	Advance Account	-	-	-	194,000	(194,000)	(194,000)
	Total	5,000,000	4,118,010	881,990	3,977,433	1,022,567	140,577

Table 3-5: Consolidated Loan Utilization (Loan 3311)

As of 30 Jun 2021							
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - KC Flood Protection	14,413,617	-	14,413,617	-	14,413,617	-
01B	CW - KC Solid Waste Mgt.	434,752	844,283	(409,531)	483,987	(49,234)	360,297
01C	CW - Pursat Flood Protection	613,011	-	613,011	-	613,011	-
01D	CW - Pursat Drainage	4,911,393	7,374,117	(2,462,724)	1,535,661	3,375,732	5,838,456
01E	CW - PS Solid Waste Mgt	1,034,180	1,368,446	(334,266)	802,316	231,865	566,131
01F	CW - KC Small-scale Inf. Dev.	750,188	-	750,188	-	750,188	-
01G	CW - PS Small-scale Inf. Dev.	750,188	-	750,188	-	750,188	-
02A	GD - KC Solid Waste Mgt.	747,330	-	747,330	-	747,330	-
02B	GD - PS Solid Waste Mgt	833,066	-	833,066	-	833,066	-
02C	GD - KC Embank. Manual Equipment	37,152	-	37,152	-	37,152	-
02D	GD - PS Flood Manual Equipment	37,152	-	37,152	-	37,152	-
02E	GD - PS Drainage Manual Equipment	37,152	-	37,152	-	37,152	-
03A	WS - Project Mgt & Implement Supp.	591,685	82,035	509,651	20,000	571,685	62,035
03B	WS - SSCD	10,003	-	10,003	-	10,003	-
04A	CS - PM & IS	3,391,797	3,023,622	368,175	2,602,174	789,623	421,448
04B	CS - SSCD	98,596	-	98,596	-	98,596	-
04C	CS - Survey & Investigations	53,479	1,115,144	(1,061,665)	464,291	(410,812)	650,853
05A	IA - Office and Travel Expense	401,876	168,526	233,350	168,526	233,350	0
05B	IA - Vehicles	145,443	134,500	10,943	134,500	10,943	-
05C	IA - Equipment	13,010	53,953	(40,943)	41,018	(28,008)	12,935
06	Interest During Implementation	1,419,526	-	1,419,526	110,614	1,308,912	(110,614)
07	Unallocatd	6,778,844	-	6,778,844	-	6,778,844	-
	Imprest Account	(6,041)	-	(6,041)	436,000	(442,041)	(436,000)
	Total	37,497,400	14,164,627	23,332,774	6,799,086.19	30,698,314	7,365,540

Table 3-6: Consolidated Loan Utilization (Loan 8295)

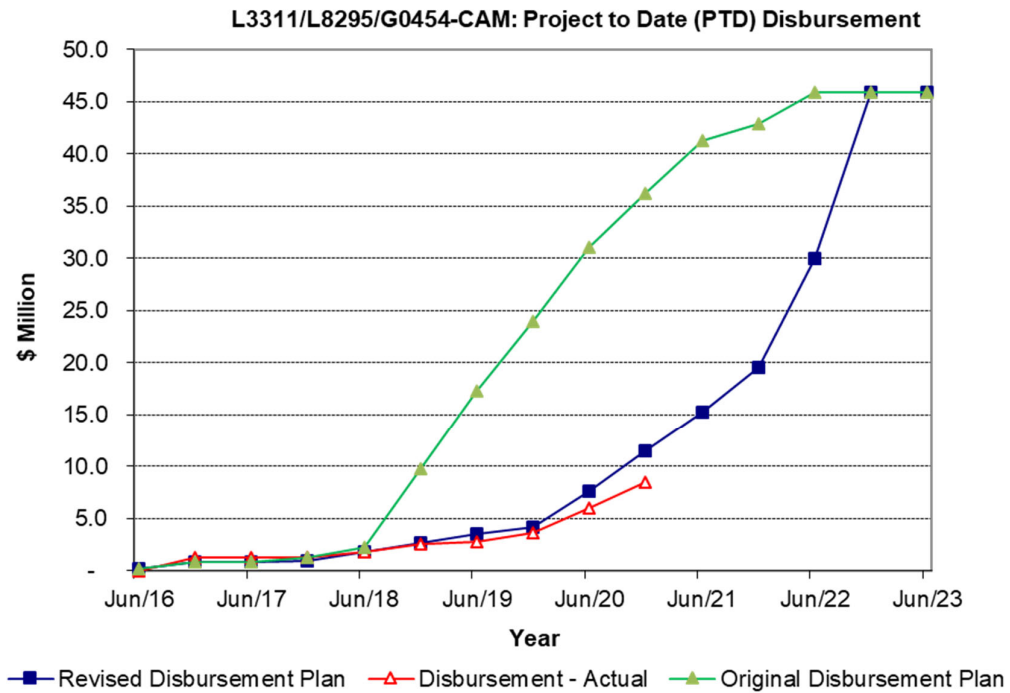
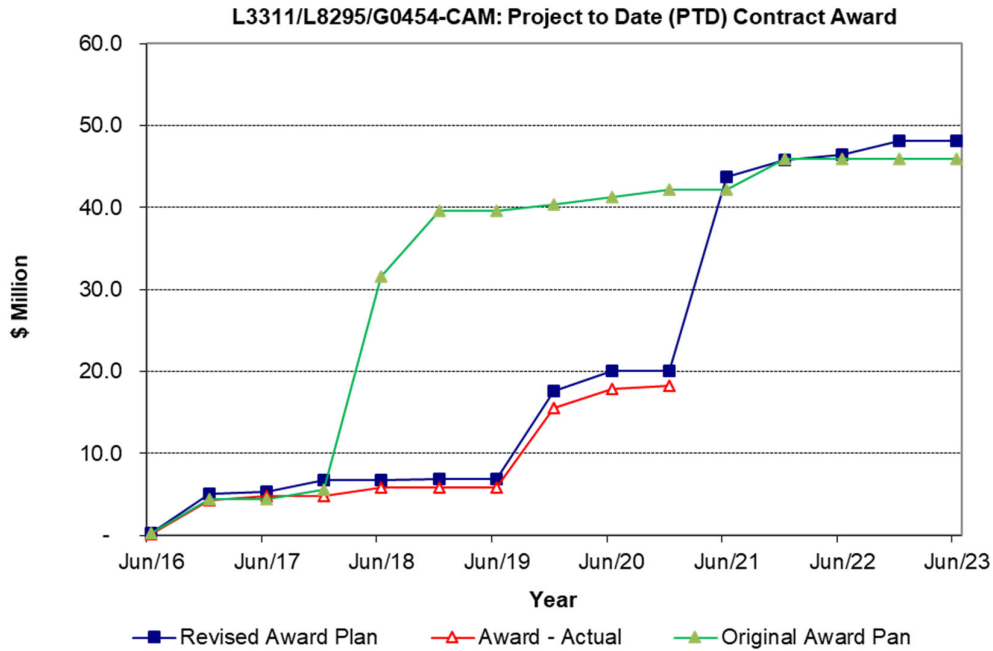
As of 30 Jun 2021							
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
1	CW - KC Flood Protection	4,982,000	-	4,982,000	-	4,982,000	-
2	Service During Implementaton	18,000	-	18,000	-	18,000	-
	Imprest Account			-	-	-	-
	Total	5,000,000	-	5,000,000	-	5,000,000	-

Details of Contract Award and Disbursement Projections are presented in Annex 4.

3.3 S curves for contract awards and disbursements

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

Figure 3-1: L3311/L8295/G0454-CAM: Project to Date (PTD) Contract Award and (PTD) Disbursement based on revised contract award and disbursement plans



3.4 Procurement Plan

13. The following table presents the procurement plan as updated 30 March 2021. The table reflects the planning as presented in the revised implementation schedule presented in chapter 4 and Annex 1. The figures in red colour represent historic data of completed procurement

Table 3-7: Procurement Plan

#	Contract Packages	Proc. Method	Advert. or submission Date	Award or Approval Date*
Civil Works				
G07	Supply of KC and Pursat Solid Waste Management Equipment batch 1	NCB	Q4 2020	Q1 2021
G08	Supply of Pursat Solid Waste Management Equipment Batch 2	NCB	Q1 2022	Q2 2022
CW04	Construction of KC Embankment	Cancellation requested by MEF		
CW05	Construction of Pursat Drainage and WWTP ¹	ICB	Q3 2019	Q4 2019
CW05	VO1		Q1 2021	Q1 2021
CW05	VO2		Q1 2021	Q2 2021
CW05	VO3		Q3 2021	Q4 2021
CW06	Construction of Kampong Chhnang and Pursat Landfills	NCB	Q2 2018	Q1 2020
CW06	VO1		Q1 2021	Q1 2021
CW06	VO2		Q3 2021	Q4 2021
CW07	Construction of Pursat River Embankment Protection	Cancelled		
CW08	Construction of KC Landfill Site	Merged with CW06		
CW09	Pursat Community-driven Env. Improvements (sanitation improvement in the Pursat Kosh and Toul Mkak Villages)	Shopping	Q1 2021	Q2 2021
CW10	Construction KC Sewerage, WWTP and Drainage	ICB	Q3-2021	Q4-2021
Consulting Services				
CS01	Project Management and Implementation Support	QCBS	Q4 2015	Q4 2016
CS02	Climate Change Adaptation in Urban Development	CQS		Q3 2017
CS03	Strengthening Sector Development	To be done under a separate TA		
CS04	NGO Support for Output 3 (CMEI)	QBS	Q3 2017	Q1 2018
Goods and Works Under \$100K				
G01	Supply of 5 units 4WD double cabin pick-up trucks	NCB	Q1 2017	Q2 2017
G02	Supply of 8 motorcycles	Shopping		Q2 2017
G03	Office furniture for PMU and PIUs (KC and Pursat)	Shopping		Q3 2017
G04	Office equipment for PMU and PIUs (KC and Pursat)	Shopping		Q3 2017
G05	Equipment for Pursat Drainage and Flood Protection	Shopping	Q4 2021	Q1 2022
G06	Manual Equipment for KC Embankment	Cancellation requested by MEF		
CW01	Office Repairs (PMU)	Shopping		Q2 2017
CW02	Office Repairs (PIU KC)	Shopping		Q2 2017
CW03	Office Repairs (PIU Pursat)	Shopping		Q2 2017

Green: Action concluded

Red: Decision pending

¹ Based on present design, not assuming design changes

4 IMPLEMENTATION PROGRESS

4.1 Status of Project Implementation and Revised Project Implementation Schedule

14. Overall implementation progress is estimated at 55.4% compared to the elapsed implementation period of 79.9%. Cumulative contract awards achieved is \$ 18.5 million (38.5% of the total project budget), and disbursements achieved is 10.9 million (22.7 % of the total project budget). The project is rated as “Actual Problem” per ADB’s performance monitoring criteria due to low contract awards and disbursements compared with the projection. The reason for the poor performance of the project is fully attributable to cancellation of the Kampong Chhnang flood protection embankment and the resulting project scope change which required the preparation of a new Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment subproject

15. As of Wednesday, June 30, 2021 progress is 55.4%; 28.8% behind (Planned Percent Complete 84.17%) and 386 Days behind schedule. Projected overall slippage is 305 Days (Based on the expected project extension till October 2023). The slippage can mainly be attributed to the project scope change. It is estimate that construction/improvement of the Kampong Chhnang sewerage and drainage systems, (construction time, defect liability period, O&M support) will take until the end of the 2nd quarter in 2023 The revised implementation schedule presented in annex 1 has been updated to reflect the additional time required for completion of the works. The expected completion date for the project is now 30 October 2023. It is expected that the extension of the loan closing date from 30 April 2023 to 30 April 2024.will be approved by ADB in the middle of July

4.2 Kampong Chhnang Urban Environmental Improvements

4.2.1 Flood Protection Embankment

Cancellation of the flood protection embankment	The MEF has confirmed its decision to cancel the flood protection embankment. Approval of the project scope change by the ADB board of directors is expected by July 2021
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4.2.1 Alternative Investment Options

As alternative for the flood protection embankments it has been agreed to finance the construction of a new sewerage system and WWTP and the selective improvement and extension of the existing drainage network

Construction of a new sewerage system in the most densely build-up town area together with the construction of a WWTP	A masterplan has been prepared for the development of a separate sewerage system for the town area of Kampong Chhnang. This system would cover a total service area of 1447 ha. In the concept design apriority area of 449 ha. was selected for the construction of the first phase of this sewerage system, however because of the high cost of soil filling for the site development for the construction of a WWTP in the to the Boeng Alum Fresh water estuary the priority area had to be reduced to 247 ha.. The system will now consist of 16 km of main sewer lines, 24 km of sewage collector lines and a WWTP with a capacity of 5.2 mld. The system is designed to serve a population of 40.000 people. This first phase of the sewerage system will be a gravity system.
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The proposed service area for sewerage development and the priority area to be developed under the project is shown in figure 4-1

Improving storm water drainage	Within the priority service area of the sewerage system 28 km of existing drainage lines will be cleaned and an additional 22 km of new pipelines will be installed to provide drainage in the area where ser lines will be installed. Without adequate drainage the sewer lines would also be used to discharge drainage water. In addition, 5.8 km of unpaved roads in the service area will be paved to avoid excessive soil runoff entering the drainage lines. The outfalls of the existing JICA system will be upgraded.
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The total cost for the for the sewerage, drainage and WWTP works is estimated to be USD 23.6 M

Progress	The draft DED report, BOQ and cost estimate, technical specifications and draft construction drawings have been completed and have be submitted to ADB for review and detailed comments from ADB have been received. The DED, design drawings and BOQ are being updated to include the comments and additional requirements from ADB. It is expected that the final documents can be submitted to ADB and the end of July 2021
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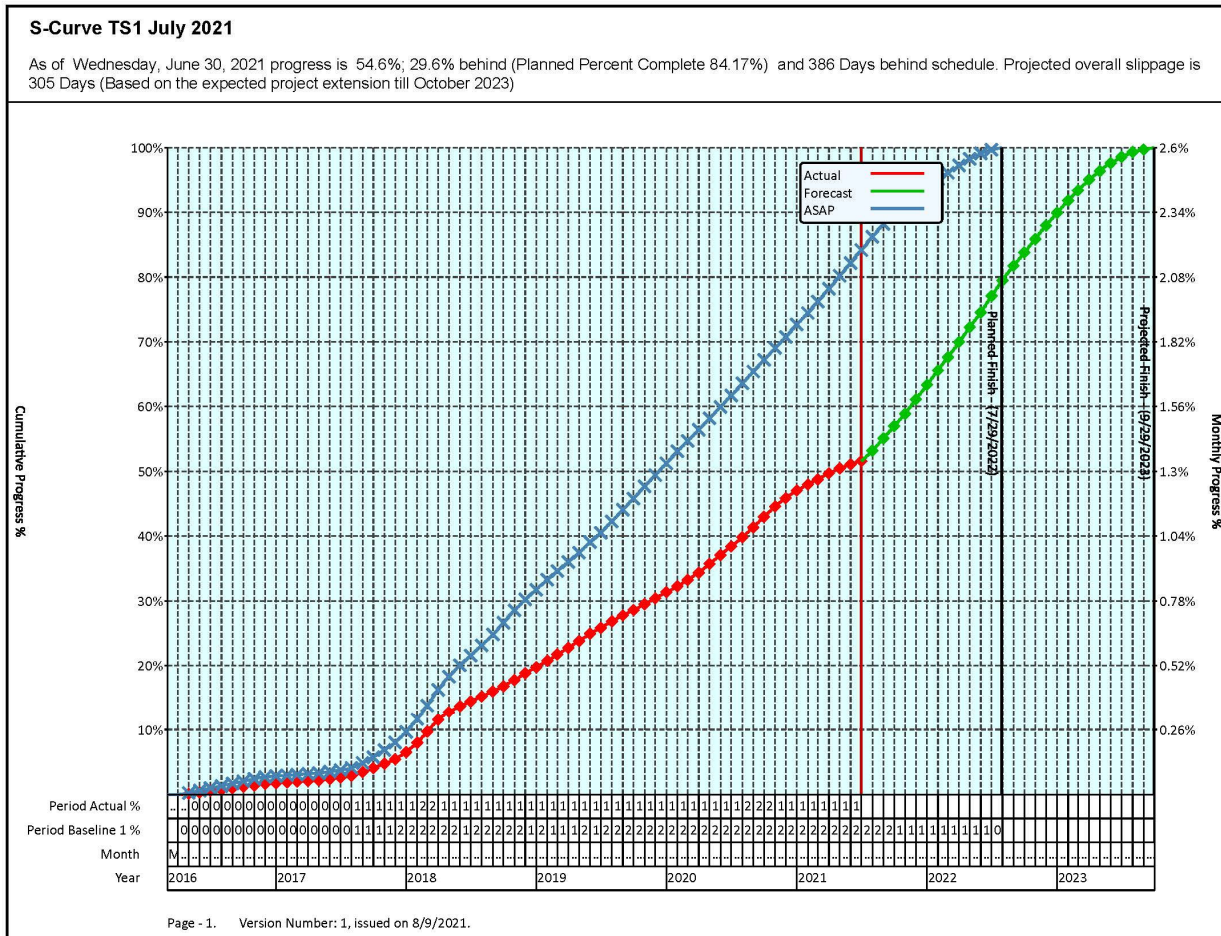
Figure 4-1: Proposed Kampong Chhnang town area for sewerage development and priority area



Figure 4-2: Revised Project Implementation Plan (PIP) not considering the extension of the project closing date

PHYSICAL PROGRESS						55.36%
No.	Activities	Prog (%)	Subpro.	Sub	Overall	Overall
0	Project Readiness/Preparation					
	Advance contracting actions	100%	20.0%	20.0%		
	Establishment of Project Management and Project Implementation Units	100%	10.0%	10.0%		
	Approval of Safeguards Documents	100%	10.0%	10.0%		
	Disclosure of Safeguards Documents	100%	10.0%	10.0%		
	Loan Negotiations	100%	10.0%	10.0%		
	ADB Board approval	100%	10.0%	10.0%		
	Loan and Grant signing	100%	10.0%	10.0%		
	Government legal opinion provided	100%	10.0%	10.0%		
	Loan effectiveness	100%	10.0%	10.0%		
	Subtotal:		100.0%	100.0%	7%	7.0%
1	Output 1: Kampong Chhnang Urban Environmental Improvements					
	a. Flood Protection Embankment	Cancellation requested by MEF				
	- Preparation/Approval Design, EMP, IEIA, RP	80%	7%	5.6%		
	- Bidding Process/Contract Award	0%		0.0%		
	- Construction Embankment/Ancillary Works	0%		0.0%		
	- Liability Period, O&M support	0%		0.0%		
	a. Sewerage System, WWTP, Drainage Improvement					
	- PPTA level subproject preparation	100%	4%	4.0%		
	- Preparation Detailed Engineering Design	100%	10%	10.0%		
	- Preparation/Approval IEE, EMP, BRP	100%	1%	1.0%		
	- Preparation/Approval IEE, EMP, IEIA, DRP	100%	2%	2.0%		
	- Bidding Process/Contract Award	50%	1%	0.5%		
	- Construction of the sewerage system, WWTP and Drainage	0%	60%	0.0%		
	- Liability Period	0%	1%	0.0%		
	- O&M support	0%	1%	0.0%		
	b. Improved Solid Waste Management					
	b1. Construction Sanitary Landfill					
	- Preparation/Approval Design, EMP, IEIA, RP	100%	2.0%	2.0%		
	- Bidding Process/Contract Award	100%	2.0%	2.0%		
	- Construction Landfill & Ancillary Works	79%	6.0%	4.7%		
	- Liability period and support for SWM	0%	0.5%	0.0%		
	b2. Remediation/Closure existing dump sites	0%	0.5%	0.0%		
	b3. SWM Equipment Procurement					
	- Procurement 1st Batch Equipment	10%	1.0%	0.1%		
	- Procurement 2nd Batch Equipment	0%	1.0%	0.0%		
	Subtotal:		100.0%	31.9%	40%	12.8%
2	Output 2: Pursat Urban Environmental Improvements					
	a. Improvement Solid Waste Management					
	a1. Construction Sanitary Landfill facility					
	- Preparation/Approval Design, EMP, IEIA, RP	100%	10.0%	10.0%		
	- Bidding Process/Contract Award	100%	10.0%	10.0%		
	- Construction Landfill & Ancillary Works	73%	15.0%	11.0%		
	- Liability Period, Support for SWM	0%	5.0%	0.0%		
	a2. SWM Equipment Procurement					
	- Procurement 1st Batch Equipment	0%	5.0%	0.0%		
	- Procurement 2nd Batch Equipment	0%	5.0%	0.0%		
	b. Improvement Drainage in Pursat Town and Waste Water Treatment					
	b1. Selective river bank erosion protection	Cancelled on request of Provincial Government as				
	b2. Construction WWTP and Final Disposal of Storm Water and WWTP effluent					
	- Preparation/Approval Design, EMP, IEIA, RP	100%	5.0%	5.0%		
	- Bidding Process/Contract Award	100%	5.0%	5.0%		
	- Construction WWTP, Effluent/Storm Water Disposal, Ancillary Works	66%	12.0%	7.9%		
	- Construction of combined sewerage/drainage system	38%	23.0%	8.7%		
	- Liability Period, O&M support	0%	5.0%	0.0%		
	Subtotal:		100.0%	57.6%	35%	20.2%
3	Output 3: Community Mobilization and Environmental Improvements (CMEI)					
	- Recruit International NGO	100%	10.0%	10.0%		
	- Train village development committee units for project briefing and output training	100%	5.0%	5.0%		
	- Community awareness programs	100%	5.0%	5.0%		
	- Needs assessments for small-scale infrastructure works on CCA, sanitation	100%	20.0%	20.0%		
	- Planning, implementing, and supervising community improvements	70%	45.0%	31.5%		
	- Prepare report on community environmental improvements and lessons	60%	10.0%	6.0%		
	- Internal and external monitoring of safeguard documents	70%	5.0%	3.5%		
	Subtotal:		100.0%	81.0%	5%	4.1%
4	Output 4: Strengthened sector coordination and operations					
	- Recruit and mobilize climate change resilience consultants	100%	5.0%	5.0%		
	- Prepare, approve, establish, and strengthen USU institutions	50%	20.0%	10.0%		
	- Review climate change and urban development documents, and sanitation	100%	15.0%	15.0%		
	- Implement TSUADF, revising building codes, developing the plan for CCA	100%	5.0%	5.0%		
	- Plan for climate change adaptation in urban areas is endorsed	100%	5.0%	5.0%		
	-Preparation sewerage/drainage masterplans for Kampong Chhnang and Pursat	95%	50.0%	47.5%		
	Subtotal:		100.0%	87.5%	5%	4.4%
5	Output 5: Strengthened Capacity for Project Implementation, and Operations					
	- Overall project management and implementation support	82%	50.0%	41.0%		
	- NGO Support	87%	20.0%	17.4%		
	- Procurement transportation, equipment, Office Repairs PMU & PIUs	100%	10.0%	10.0%		
	- Recruit external resettlement monitor	100%	10.0%	10.0%		
	- Develop PPMS and capacity development plan	90%	10.0%	9.0%		
	Subtotal:		100.0%	87.4%	8%	7.0%
	Total					

Figure 4-3: S Curve for the Project



4.2.2 Improved Solid Waste management

Construction Sanitary Landfill

Preparation/Approval Design, EMP, IESIA, RP Detailed designs, BOQ, cost estimate and technical specifications have been completed in May 2018. The IEE, EMP and DDR have been approved. The MOE has issued the IESIA license.

Bidding Process/Contract Award

- CW06, Lot 1 Kampong Chhnang landfill signed on 19 March 2020. Contract Sum Lot 1: USD 844,283.27,
- CW06 VO1, submitted to ADB for NOL, the additional works under this VO works will increase the total accepted cost of the works for lot 1. with USD 110,533.86 from USD 844,283.27 to USD 954,817.13. The contingencies for lot 1 have been reduced from USD 85,000.00 to USD 0. The VO also includes an extension of the work schedule for lot 1 with 6 months up to the middle of October. This is within the overall CW06 contract period.

Construction Landfill & Ancillary Works

As of Wednesday, June 30, 2021 progress is 78.74%; 13.45% behind (Planned Percent Complete 92.19%) and 66 Days behind schedule. Projected overall slippage is 0 Days. Projected overall slippage is 0 Days A VO1 for CW06 has been prepared which will include the extension of the work schedule for lot 1 with 6 months. Under this VO the following additional works have been included

- The length of the boundary fence was increased from 1.351 m to 1.856 m. on request of the PIU to also include the part of the designated landfill area which is presently not being used for the construction of the land fill.

- The number of solid waste cells has been increased from 1 to 2 to take a better advantage of the site development, make the composition of the infrastructure consistent with landfill development under the other ADB urban infrastructure projects. The additional cell will increase the storage capacity from 42.000 m³ to `120.000 m³ (42.000 m³ of the additional cell and 36.000 m³ of the infill area between the cells) This will extend the use created landfill infrastructure from 5 to 12 years
- Minor increases in quantities in; drainage system, as result of the increase in the length of site fencing which is accompanied by a drainage canal, (ii) leachate ponds, administration building, and water tank because of some adjustment in the detailed designs.



Photo 4-1 Overview of the landfill cell under construction

Liability period	Not yet due
O&M support for SWM	
Remediation and Closure of existing dump sites	A legal review of options for decommissioning the existing dumpsites was conducted during the first quarter of 2020. The findings of the analysis are that for the dumpsite in Kampong Chhnang the obligation for proper closure of this site is included in the contract with the SWM operator. The PMIS will advise the municipal authorities for the proper closure of the dumpsite.

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

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

4.3 Pursat Urban Environmental Improvements

4.3.1 Improvement Drainage in Pursat Town and Waste Water Treatment

Preparation of Detailed Design, BOQ and Cost Estimate (DED) for improvement of the combined storm water drainage and sewerage system	Detailed designs, BOQ, cost estimate and technical specifications have been completed in May 2018. The IEE, EMP and DRP have been approved. The MOE has issued the IESIA license.
Preparation of Detailed Design, BOQ and Cost Estimate (DED) for the Waste Water Treatment Plant	Detailed design has been completed. The extreme flooding in October 2020 with a maximum level of 15.13 m, required a redesign of the WWTP site. The main structures (anaerobic tank and filter and the reeds bed were located above the high flood level, however the intake/overflow structure, the equalization tank and the chlorination unit as well as the administrative building, equipment shed guard house and access road are all below this extreme flood level. A redesign has been prepared to bring all these structures and the access road above high flood level.

The embankment on both sides of the irrigation canal that provides for the discharge of storm water run-off from the Pursat town center has been redesigned to bring the top level above high flood level and increase the number of drainage culverts in the embankment to improve the drainage of the surrounding low-lying areas.

Preparation of IEE & EMP
Preparation of Domestic IESIA by a local consulting firm accredited with the MoE

Preparation of the IEE and EMP have been completed and approved by ADB

The MOE has issued the IESIA license for the subproject

Preparation and Implementation of a Resettlement Plan

The DRP for the subproject has been approved. Compensation payment has been made to 21 AH along one of the sewer lines. Installation of the pipeline in this section has been completed

Bidding Process and Contract Award

- CW06 was signed on 31 March 2019. The Contract sum is USD 9,834,116.59.
- CW06 VO1 (Flood repair and flood damage mitigation measures), NOL has been received from ADB. Under VO1 the cost for the additional has increased the total accepted cost of the works exclusive of contingencies with USD 767,714.67 from USD 8,834,116.59 to USD 9,601,831.26. The contingencies have been reduced with USD 767,714.67 from USD 1,000,000.00 to USD 232,285.33 The contract price of USD 9,834,116.59 after VO1 have remained unchanged
- CW06 VO2 (repair of the Pursat river embankment at the Kaoh village) The NOL from ADB has been received. The works under VO2 have increased the contract cost with USD 147,543.10 from USD USD 9,601,831.26 to USD 9,749,378.50. The contingencies have been reduced with USD 147,543.10 from USD 232,285.33 to USD 84,734,116.59. The contract price of USD 9,834,116.59 after VO2 have remained unchanged



Photo 4-2: Installation of new drainage pipelines in the town center

Construction of the Combined Sewer/Drainage lines

11 km of the total of 23.7 km pipe lines have been installed for the new drainage system This includes the installation of approximately 1400 manholes of which approximately 800 manholes have been connected to the existing drainage system The reinstatement of pavement has to be started. The damage to the mainly DBST pavement is larger than expected and, on most roads, new DBST pavement of the full road width will have to be provided. Progress is 38%



Figure 4-4: Progress of the installation of new drainage pipelines

Construction of the WWTP

For the construction of the WWTP the contractor has completed reshaping of the old irrigation canal that will be used for discharging storm water collected in the urban center and effluent from the WWTP, installation of additional culvert to improve the drainage in the adjacent low-lying areas and the strengthening of the embankment are ongoing. Construction of the administrative building, equipment shelter, equalization tank, anaerobic tank and filter has been completed including the raising of these building above the new high flood level of 15.2 m. Construction of the reed bed filters is ongoing, Overall construction progress of the WWTP is 66%.



Photo 4-3: Primary settlement and overflow tanks

Problems in the discharge of the town drainage water outflow

The town drainage is discharged in the old drainage canal which conveys the drainage water over a distance of 2.8 km to a natural drain. There are now several obstructions in the old drainage canal and the natural drain which causes high backwater levels at the outfall of the drainage system. The obstructions are:

- The invert level of a recently constructed culvert in a road crossing of the drainage canal
- High sill level of an old gated escape weir in the crossing of the drainage canal with the natural drain
- A dam constructed in the natural drain by the local commune to prevent drainage water from the Pursat town to mix with other surface runoff and seepage water in the drain that is being used as source for drinking water.

It is proposed to contract to culverts to bypass the road culvert and canal escape weir, but there is no solution for the present blockage of the natural drain by the local commune.



Photo 4-4 High level of backwater in front of the drainage outfall in the irrigation canal



Photo 4-5 Road Culvert in the drainage canal obstructing flow



Photo 4-6 Dam in natural drain constructed by the local commune to protect the drain as source of drinking water

Cleaning of the existing drainage system

For the cleaning of the existing drainage system by jetvac equipment jetting and removal of sediment has been completed in 14 km of existing pipelines of the total

length of 22 km. The sediment removed from the pipelines has been deposited in the existing solid waste dumpsite.



Overall Progress of CW05

With regard to the overall construction progress, As of Wednesday, June 30, 2021 progress is 56.58%; 26.6% behind (Planned Percent Complete 83.18%) and 75 days behind schedule. Projected overall slippage is 0. days. Projected overall slippage is 0 Days. The S Curve presenting the performance of the works is given in annex 8.

Support Activities

In the first quarter of 2021 a ground penetrating radar survey was completed of all alignments of the new drainage lines. The survey was conducted with the objective to detect existing underground utilities such as water supply lines, fiber optic cables etc. to facilitate the installation of the new lines avoiding damage to existing underground utilities.

Liability Period	Not yet due
O&M support	It is proposed to procure jetvac equipment for the future maintenance of the drainage network. It is proposed to include this equipment could be included in the contract package for the procurement of the 1 st batch of SWM equipment

4.3.2 Improved Solid Waste management

Construction Sanitary Landfill

Preparation/Approval Design, EMP, IESIA, DRP	Detailed designs, BOQ, cost estimate and technical specifications have been completed in May 2018. The IEE, EMP and DDR have been approved. The MOE has issued the IESIA license Compensation has been paid on 29 May 2020 to the 5 AH along the access road to the landfill site. GDR has sent the hand over letter to the PMU
Bidding Process/Contract Award	<ul style="list-style-type: none"> • CW06 Pursat Landfill (Lots 2) was signed on 19 March 2020. Contract Sum USD Lot2: USD 1,368,446.30). • CW06 VO1; submitted to ADB for NOL, The additional work for works for lot 2.with increase the costs with USD 226,685.43 from USD 1,368,446.30 to USD 1,595,131.73. The contingencies for lot 2 have been reduced from USD 140,000.00 to USD 0



Photo 4-7: Overview of the Pursat Landfill Construction

Construction Landfill & Ancillary Works	After the compensation to the 5 AH along the access road to the landfill site was paid, the site was released to the contractor and work has started on the improvement of the access road and landfilling of the landfill area. The landfill area has to be raised with one meter to prevent flooding of the site As of Wednesday, June 30, 2021 progress is 73.3%; 18.1% behind (Planned Percent Complete 91.4%) and 99 Days behind schedule. Projected overall slippage is 0 Days The S Curve presenting the performance of the works is given in annex 8.
Liability period	Not yet due
O&M support for SWM	Not yet due
Remediation and Closure of existing dump sites	A legal review of options for decommissioning the existing dumpsites was conducted during the reporting period. The findings of the analysis are that in Pursat the land title for the existing dumpsite will be transferred to the MA under ongoing bankruptcy procedures of the previous SWM operator and owner of the site. Decommissioning of this site would thus be possible under the loan. However, during years of operating the dumpsite, waste has been deposited far outside the boundaries of the area designated for this dumpsite. For decommissioning of the dumpsite waste has to be collected from the surrounding private land.

Figure 4-5 presents an overview of the existing dumpsite in Pursat The area transferred to the Municipality is marked in red The waste deposits that will have to be transferred to this area from the adjacent private properties are marked in yellow. It is estimated that between 60 to 80.000 m² of waste will have to be moved.



Figure 4-5: Overview of the Existing Dumpsite in Pursat

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

Procurement 1st
Batch Equipment

Delivery of the 1st batch of SWM equipment is scheduled to coincide with the completion of construction of the controlled landfill. Discussions are ongoing with the local authorities on type and number of equipment

Procurement 2nd
Batch Equipment

Procurement of the 2nd batch of equipment is scheduled 1 year after commissioning of the landfill facility and composition of the 2nd batch of equipment will depend on experiences obtained from the use of the 1st batch

4.3.3 River Bank Protection for the Pursat River

Reconstruction of the Kaoh village Pursat

During the the floods of October 2020, the river embankment in the Kaoh village was breached at several places. The village is included in the CMEI component of the project for the implementation of sanitation improvements, including the installation of VIP

River
Embankment

latrines. In consultations with the villagers on the implantation of the sanitation activities the villagers had strongly indicated that the repair of the river embankment was their highest priority and that this should be done before the installation of the latrines. In addition, the Provincial Authority has requested the support of the project for the reconstruction of the embankment.

The reconstruction of the embankment is no being undertaken under CW06, VO2 and has been substantially completed. The finishing work and selective embankment protection works had to be suspended in June because of a COVID outbreak in the Kaoh village.



Photo 4-8: Breached section of the river embankment



Photo 4-9: Reconstructed section of the river embankment

4.4 Institutional Development, Tariff Structure Tariff Setting, Subsidy Methodology and Public Private Partnership Development

16. As per the agreement in the last ADB review meeting the responsibility for institutional development and in particular the establishment of USUs was removed from the scope of the PMIS consultant services in VO4.

PMIS will remain responsible for the technical training and support for O&M of the created infrastructure. Therefore, no further activities have been carried out by the PMIS under this component

4.5 Preparation of Urban Services Master Plans for Kampong Chhnang and Pursat

Completion of base maps, and base maps available in online system

Because of the COVID pandemic it has not been possible to mobilized the design engineer and IT specialists to install the online system in the local server in Cambodia. Because of limited bandwidth it was not possible to install the system remotely. In addition because of the rather organically driven urban development activities in Pursat and kampong Chhnang the masterplans as prepared will have to be updates to have any relevance for the present situation

4.6 Community Mobilization and Environmental Improvements (CMEI)

Detailed design and construction of sanitation improvements in 6 selected villages in Kampong Chhnang and Pursat

A works contract for the installation of 64 pit latrines in the Toul Mkak village and 38 latrines in the Kaoh village has been awarded and installation of latrines in both villages has been started but works in the Kaoh village had to be suspended because of a COVID outbreak in the village The environmental DDR has been approved by ADB



Photo 4-10: VIP latrine under construction in Toul Mkak village

Kbal Hong village

The installation of the main drainage line 7 has been completed and a first assessment for the connections of the household along the banks of the old irrigation canal has been completed. A detailed inventory of the existing sanitary installation and paths for connection to the main drainage line has to be made. This is not possible with the present COVID emergency For the villages in Kampong Chhnang onsite or decentralized sanitation solutions are being considered as options in the short-term. The assistance will be limited to those villages and households that have no linkage with the embankment resettlement issues

Change in the design approach for sanitation improvements based on site specific conditions and possible changes in the project scope

Support for solid waste management

A questionnaire on the condition of garbage disposal and collection and the options for community involvement in solid waste management was developed and tested in Kampong Chhnang and Pursat and the survey was scheduled to be conducted during Q1. Because of the COVID restriction the survey had to be postponed, and could possibly be conducted towards the end of Q2

5 PROJECT MANAGEMENT ARRANGEMENTS

5.1 PMU and PIUs

17. MPWT is the executing agency (EA). The implementing agencies (IAs) are the Provincial Department of Public Works and Transport (PDPWT) and Municipal Governments in Kampong Chhnang and Pursat. A Project Steering Committee (PSC) has been established by MPWT although the PSC has not yet been activated. The PSC is responsible for: (i) overseeing implementation in conformity with the Project's development objectives and scope; (ii) assisting in coordination among government agencies involved in Project implementation and policy reforms (in consultation with the PCU in Phnom Penh); (iii) ensuring coordinated and efficient implementation of Project activities; (iv) monitoring the progress of achieving all outputs, in particular, measuring the development impact and outcome envisaged under the Project; and (v) provide guidance and direction towards the accomplishment of the Project's impact and outputs. The PSC is chaired by MPWT and members include representatives from Ministry of Economy and Finance (MEF), Tonle Sap Authority (TSA), MPWT, and Ministry of Land Management Urban Planning and Construction (MLMUPC). ADB implementation review meetings have become the de-facto meetings of the PSC as representatives of these agencies are present during these meetings

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

19. A project management unit (PMU) has been established with full time staff from MPWT. The PMU includes a Project Director, Project Manager, two Supervisory Engineers, Social and Resettlement Officer, Environment Officer, Office Manager, Procurement Officer, Accounting Officer, Assistant Accountant and Secretary/Office Assistant. It is aimed that at least 30% of the PMU staff are women. This target has not yet been achieved. During the midterm review the overall a restructuring of the management of the ADB financed urban development projects was discussed but this restructuring has not been further detailed or developed and is not yet implemented.

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

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

22. In addition to Mr. Ya Samol, Project Engineer, Mr. Tech Chey, Resettlement specialist and Mr. Socheat Penh, Environmental specialist have joined the PMU. In March 2020, an international project implementation specialist, Mr. Greesh was appointed in the PMU. Because of the COVID-19 restrictions this specialist is supporting the PMU from his home office.

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

5.2 Environmental approvals

24. MoE has not yet appointed a focal point for each ADB loan project EIA process, who will work closely with the PMIS consultants to assist in the preparation of quality EIAs and provide updates on the approvals process.

5.3 Project Implementation and Management Support (PMIS) Consultant

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

5.3.1 Utilization Consultants' Inputs

26. Up to the end of this reporting period, the total person-months used can be summarized as follows. The details of the consultant's staff input are show in annex 7

27. A revised personnel schedule reflecting the possible changes under VO4 is presented in Annex 2. Because of the ongoing COVID pandemic it has not been possible to mobilize the international specialists apart from the team leader

Table 5-1: Consultant's Staff Inputs

Specialists	Total p/m	p/m used	Balance	Percentage P/M used
International	81.0	66.7	14.3	82.3%
National	355.0	256.9	98.1	72.4%
Total	436.0	323.6	112.4	74.2%

5.3.2 VO4

28. On 10 March 2020, VO4 to the PMIS consultant services contract was signed. The VO includes a lump sum provision for the preparation of the DED for the Kampong Chhnang sewerage and drainage systems. Under this VO the responsibilities of the PMIS for institutional development have been removed. It is now proposed, to appoint a single consulting firm with the scope of developing solid waste and wastewater billing, financial and service management systems for participating towns

29. A VO5 will be required to extend the contract period for the PMIS consultant services with one year to ensure the continuation of the services till the end of the extended project period. Also the input construction supervision staff will have to be increased for the construction supervision of the CW10 works contract

5.4 Financial Management

30. There are no changes in the compliance with the financial covenants during this reporting period.

Table 5-2: Financial covenants

The MPWT will pursue improved collection of fees and charges for urban environment infrastructure to recover the cost of O&M expenditures	ADB has proposed that MEF and MPWT consider pooling the institutional components of the ADB urban portfolio into a single consulting package, financed from selected participating urban project loans, to appoint a single consulting firm with the scope of developing solid waste and wastewater billing, financial and service management systems for participating towns
The PIUs will draw management staff from PDPWTs and municipalities	PIU have been established and include staff from the PDPWT
All procurement will be done from within the PMU; a representative from each PIU will be invited to participate on the procurement committee	All procurement is being done by the PMU with participation of representatives of the PIUs
An imprest account will be established in the PMU. A sub-account will be established in each PIU, with a ceiling of \$5,000	Imprest account has been established, no sub accounts have been established for the PIUs
Internal audit	No major issues
External audit	No major issues

6 SAFEGUARDS

6.1 Environmental Safeguards

Subproject	Status/activities	Comments
	The Semi-Annual Consolidated Monitoring Report has been submitted	ADB comments have been addressed
Kampong Chhnang Flood Protection Embankment Construction	MEF has requested the cancelation of the subproject	Project scope change is expected to be approved in Q2 2021
Kampong Chhnang Landfill Construction and Operation	EMP, IEE and domestic IESIA have been completed	The IESIAs for the construction of Pursat combined drainage/sewer system and the Kampong Chhang and Pursat controlled landfills have been approved by MOE and the environmental licenses for the respective subprojects have been issued
Pursat Improvement of the Combined Storm Water and Sewerage System and Construction of the Waste Water Treatment Plant	EMP, IEE and domestic IESIA have been completed	
Pursat Landfill Construction and Operation	EMP, IEE and domestic IESIA have been completed	
Kampong Chhnang sewerage/drainage system	IEE has been prepared and has been approved by ADB Preparation of the IESIA is ongoing	It is expected that the environmental license will be issued by the MoE by the end of Q2 - 2021

6.2 Social Safeguards

Subproject	Status/activities	Comments
Kampong Chhnang Flood Protection Embankment Construction, Kampong Chhnang Landfill Construction and Operation	MEF has requested the cancelation of the subproject DDR Kampong Chhang has been finalized, and approved	Project scope change is expected to be approved in Q2 2021
Kampong Chhnang sewerage/drainage system	The BRP has been prepared and has been approved by ADB	It was found that impact by sewer and drainage lines can be avoided by careful planning and night time installation in the commercial area. Collection of sewage from the back of the houses/building in the densely built up commercial area is being investigated to make house connections to the sewer lines easier.
Pursat Improvement of the Combined Storm Water and Sewerage System and Construction of the Waste Water Treatment Plant	DRP Pursat drainage has been finalized and approved	Compensation has been paid on 29 May and GDR has submitted the handover letter to PMU GDR will report directly on details of compensation payment to ADB
Pursat, Reconstruction of the Kaoh village river embankment	Public consultations with the households in the village have been carried out.	As part of the consultations a joint walk through was conducted along the embankment. Jointly with the households it was confirmed that the reconstruction works will not have an impact on permanent structures, private land, commercial trees or standing agriculture crops. A brief

		resettlement DDR is being prepared. This has been delayed because of a COVID outbreak in the village
Pursat Landfill Construction and Operation	DRP Pursat landfill has been finalized and approved	Compensation has been paid on 29 May and GDR has submitted the handover letter to PMU. GDR will report directly on details of compensation payment to ADB

6.3 Safeguard Monitoring

Reports	Status
Resettlement Semi-Annual Consolidated Monitoring Report	<ul style="list-style-type: none"> • 2019-June 2020, Approved by ADB • July 2020 – December 2020, under review by ADB, • January 2021 to June 2021, submitted to ADB awaiting comments
Environment Semi-Annual Environmental Monitoring Report	<ul style="list-style-type: none"> • July 2020 – December 2020 Pending because of an issue with the late submission of the CEMP for CW06. It was surprising that the Contractor submitted the CEMP at all as it was not a requirement in the contract and the contract, in the SCC, specifically requires the environmental monitoring to be conducted based on the EMP. • January 2021 – June 2021, draft has been prepared by the local environmental specialist and is being reviewed by the International environmental specialist
GDR	

6.4 Social Safeguards

6.4.1 The indigenous peoples

31. The indigenous peoples safeguard category for the project has been set as C. Kampong Chhnang flood embankment has direct impact on ethnic Cham. However, monitoring of the indigenous peoples safeguards in the Kampong Chhnang Flood Protection Embankment subproject has been suspended as the MEF has requested the ADB for cancellation of the subproject. There are no indigenous people in the other subprojects.

6.4.2 Grievance Redress Mechanism (GRM).

32. All information on the establishment, status, training and operational aspects of the GRM as well as compensation of affected households is reported directly to ADB by the Department of Internal Monitoring and Data Management of the General Department of Resettlement.

33. It should be noted that in this day and age of social media, the GRM seems to be an archaic way to deal with complaints, while no complaints have been received by the PGRC, complaints are logged on facebook and are also promptly addressed by the PIU and the construction supervision team

6.4.3 Gender Action Plan

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

35. The Gender Action Plan includes specific gender actions to help ensure men and women actively participate in project activities, receive project information, and have access to opportunities during project implementation. The GAP monitoring table is presented in annex 4.

6.5 COVID 19

As part of the EMP, the contractor must implement the following measures and present a risk assessment relating to COVID-19 prior to any construction works or site preparation. PMU will review and approve the Risk Assessment, seeking advice and guidance from the Ministry of Health as required.

Table 6-1: COVID Mitigation measures

COVID-19 Mitigation Measures for EMP		Actions
1. Form a joint team to plan and organize return to work	<ul style="list-style-type: none"> • Develop or convene a joint occupational safety and health committee with members representing the employer and workers. • Train team members on the basic principles for the formulation and implementation of occupational safety and health preventive and control measures. • Develop and communicate a work plan on safe working for COVID-19. 	<ul style="list-style-type: none"> • Safety and health are monitored jointly by the PIU, Construction supervision, and the Contractor • Training on safety and health protocols with a focus on safe working for COVID is regularly provided
2. Risk assessment to decide when to work, who works and how	<ul style="list-style-type: none"> • Undertake a risk assessment to determine the preventive and control measures. • Ensure preventative measures are in place before resuming or beginning construction work. 	<ul style="list-style-type: none"> • Risk assessment has been done • Preventive measures have been put in place
3. Adopt engineering, organizational and administrative measures	<ul style="list-style-type: none"> • Avoid physical interaction and remain socially distant. • Ventilate enclosed workplaces including work camps and communal spaces. • Avoid concentration of workers - limit the capacity of common areas such as work camp dining rooms and changing rooms to allow the minimum separation of 2 meters and organize one-way systems. This includes sleeping areas which must be a minimum of 2 meters between beds. • Put in place training and information on COVID-19 and measures required for its management. • The construction site is to be segregated to the extent possible in zones or other methods to keep different crews physically separated at all time. • Stagger break and lunch schedules to minimize the number of people in close proximity to one another. 	<ul style="list-style-type: none"> • Social distancing is being observed • Ventilation is provided • The works are equipment intensive and the number of workers at site is limited, therefore there is no high concentration of workers • Training on COVID measures is being provided • Because of the limited number of workers there is no need to stagger breaks and lunch schedules • Frequent cleaning is being practiced
4. Regularly clean and disinfect	<ul style="list-style-type: none"> • Increase the frequency of cleaning and disinfection, in particular heavily trafficked areas and common areas, including work camps. • All door handles, railings, ladders, switches, controls, eating surfaces, shared tools and equipment, taps, toilets, and personal areas are wiped down at least twice a day with a disinfectant. • Discourage the sharing of items such as cups, glasses, plates, tools. 	<ul style="list-style-type: none"> • Frequent cleaning of all areas is being practiced
5. Promote personal hygiene	<ul style="list-style-type: none"> • Provide workers with the conditions and means necessary for frequent hand washing (soap, water or alcohol gel) with a posted hand washing protocol at site entries, exits, 	<ul style="list-style-type: none"> • Toilets and washing facilities are provided at the construction site and workers camps and are regularly cleaned

COVID-19 Mitigation Measures for EMP		Actions
	<p>bathrooms, communal areas, offices, and any other areas with commonly touched surfaces.</p> <ul style="list-style-type: none"> • Inform workers of the need to avoid physical contact when greeting, and avoid touching eyes, nose and mouth. • Inform workers of the need to cover the mouth and nose with a disposable handkerchief when coughing or sneezing or the crook of their arm. • Dispose of tissues in a lined and covered waste bin and wash hands afterwards. 	<ul style="list-style-type: none"> • Workers and contractor staff have been instructed to follow all health protocols and training has been provided
6. Provide personal protective equipment (ppe) and inform workers of its correct use	<ul style="list-style-type: none"> • Identify appropriate PPE related to the tasks and health and safety risks faced by workers according to the results of risk assessment and the level of risk, and provide it to workers free of charge and in sufficient number, along with instructions, procedures, training and supervision. • Non-medical face-coverings (such as homemade cloth masks) should be worn as mitigation for catching and transmitting the virus, but are not to be treated as substitutes for proper handwashing. 	<ul style="list-style-type: none"> • PPE equipment is made available for all contractor staff and workers • Face coverings are mandatory for all contractor staff and workers
7. Health surveillance	<ul style="list-style-type: none"> • Before entering the site, staff and visitors must confirm that they are not currently exhibiting flu-like symptoms. • Monitor the health status of workers, develop protocols for cases of suspected and confirmed contagion. • Identify workers who have had close contact with people infected with COVID-19 and follow national medical guidance. • Communicate confirmed cases of COVID-19 infection to the appropriate authorities. 	<ul style="list-style-type: none"> • Temperature is checked when entering the construction site or at the start of work at temporary construction sites • Contact tracing is carried out • No COVID infections have occurred amongst the workers.
8. Consider other hazards, including psychosocial	<ul style="list-style-type: none"> • Promote a safe and healthy working environment free from violence and harassment. • Encourage health promotion and wellbeing in the workplace through enough rest, balance of physical and mental activity and adequate work-life balance. • Implement prevention and control measures for the use and storage of chemicals, particularly those used for disinfection during COVID-19. 	<ul style="list-style-type: none"> • Safe and health working environment has been established • health promotion and wellbeing is being promoted through training • Safe storage for chemicals has been established
9. Review emergency preparedness plans	<ul style="list-style-type: none"> • Develop an emergency plan adapted to COVID-19 and regularly review it. 	<ul style="list-style-type: none"> • Emergency plan are available and are regularly reviewed
10. Review and update preventive and control measures as the situation evolves	<ul style="list-style-type: none"> • Periodically monitor prevention and control measures to determine whether they have been adequate to avoid or minimize risk, and identify and implement corrective actions for continuous improvement. • Establish and maintain records related to work-related injuries, illnesses and incidents, worker exposures, monitoring of the work environment and workers' health. • Construction Workers and Camp Management. 	<ul style="list-style-type: none"> • Periodic monitoring is being done • Records are being maintained • Construction workers camps are being carefully managed to mitigate health risks
Source: Adapted from: ILO ^[1] , WHO ^[2] and Canada Construction Association ^[3]		

7 PROJECT PERFORMANCE

36. The following provides a summary assessment of the likelihood of reaching the targets set out in the revised DMF, which is based on the proposed project scope change.

Table 7-1: Design Monitoring Framework

Results Chain	Performance Indicators	Status of Achievements
<p>Outcome</p> <p>Improved urban services and enhanced climate change resilience in participating municipalities</p>	<p>By 2024:</p> <p>a. At least 31,500 people consistently using safe sanitation services (at least 15,000 women)(2020 baseline: 0)</p> <p>b. At least 76,500 people consistently using safe solid waste management services (2020 baseline: 0)</p> <p>c. At least 3,000 households benefit from reduced flooding through improved drainage (2020 baseline:n/a)</p> <p>d. Sanitation and solid waste management units are funded as per the agreed budgets from the provincial governments (Baseline: not applicable)</p>	<ul style="list-style-type: none"> • The improvement of the combined drainage/sewerage system in Pursat will be completed by the end of 2021 and will improve the sewerage service for about 20.000 persons • Construction of the Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment will be started in the beginning of 2022. After completion the system will provide sewerage services for 40.000 people • The construction of the landfills in Kampong Chhnang and Pursat will be completed by December 2021. It is expected that household waste collection in Kampong Chhnang will serve 9200 households and in Pursat 6.400 households • Upto this date there is no facility in place to assist the municipalities in tariff setting and financial management
<p>Outputs</p> <p>1. Policy and regulatory environment improved</p> <p>2. Urban infrastructure improved</p>	<p>By 2024:</p> <p>1a. Building code proposals incorporating climate resilient recommendations and gender-responsive and inclusive climate adaptation action plan developed (Baseline: not applicable)</p> <p>1b. Recommendations on wastewater treatment standards and sludge disposal regulations (Baseline: Sub decree 27 (1999) and Sub decree 235 (2017))</p> <p>By 2024:</p> <p>2a. Two wastewater treatment plants with capacity of at least 6MLD constructed and made operational (2020 baseline: 0)</p>	<ul style="list-style-type: none"> • No information Available, this activity was carried out under Package II: Climate Change Adaptation in Urban Development which has been concluded. • No information Available, this activity was carried out under Package II: Climate Change Adaptation in Urban Development which has been concluded • The WWTP in Pursat with a capacity of 2.1 Mld will be completed by the end of December 2021 • Under the Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment a WWTP will be constructed with a capacity of 5.2 Mld

Results Chain	Performance Indicators	Status of Achievements
<p>3. Institutional effectiveness improved</p>	<p>2b. Two controlled landfills with a capacity of 60,000 tonnes of municipal waste constructed and operational (2020 baseline: 0)</p> <p>2c. 87 km of stormwater drains newly rehabilitated and constructed (2020 baseline: 0 km)</p> <p>2d. At least 5,400 ID Poor 1 & 2 households (20% female headed) have pour-flush toilets (2020 baseline: 4,000)</p> <p>3a. Sanitation and waste management units established in the participating municipalities and become operational (20% of staff are women) (2020 baseline: 0 dedicated units operating)</p> <p>3b. Capacity development program adopted for sanitation and solid waste management units in the participating municipalities, with at least 50 staff trained (30% women) (2020 baseline: n/a)</p> <p>3c. Gender-sensitive hygiene promotion campaigns conducted in each participating municipality with women accounting for at least 40% of participants (2020 baseline: n/a)</p>	<ul style="list-style-type: none"> • The construction of landfills in Kampong Chhnang and Pursat will be completed by December 2021 the landfill will have capacities for storage of solid waste of respectively 120.000 m³ and 140.000 m³ after a design change that added an additional waste storage cell to both landfills • In Pursat 23.7 km of new drainage lines will be installed and 22 km of existing drainage lines will be cleaned, repaired and interconnected with the new drainage lines • In Kampong Chhnang 19 km of new drainage lines will be installed and 22 km of drainage lines will be cleaned. • At present 64 VIP latrines are being installed in the Toul Mkak Village and 36 VIP latrines in the Kaoh village in Pursat • Preparatory activities are being carried for improvement of the sanitation facilities and providing a sewerage connection to the new sewer lines for about 200 households in the Kbal Hong village in Pursat • Preparatory activities are ongoing for improvement of toilet facilities in public schools in Kampong Chhang • It is unlikely that this target will be achieved • Units are to be established before the handover of the landfills to the municipalities, however the responsibility for establishment of USUs has been removed from the tasks of the PMIS. Consultant and achievement of this output now depends on the timely appointment of consultant services for institutional development • In service training for the operation of the SWM facilities and equipment will be provided by the PMIS after commissioning of the landfills and handover of the SWM equipment • Training is provided by the NGO and the PMIS gender specialist. Participation in the training by women was high (61%, see Gap Monitoring Report)

8 LOAN COVENANTS

37. There were no changes in compliance with the loan covenants during this reporting period. The following points still remain valid and no further follow up on these issues was done during this period

38. ADB has updated the opex estimates for the two landfill sites as part of its internal approvals for the changes to the covenant. The current estimated operating costs for both landfill sites, in the first year of operation, is around \$65,000 per year. Both provincial authorities have confirmed that a budget line for landfill operations would be created for 2021 and this sum could be made available from existing resources and if necessary supplemented from a dedicated MoE budget which is available for decentralized solid waste management.

MEF has formally confirmed to ADB to formally that:

- A budget line for landfill operations will be created in both of the municipal (or provincial) administration budgets for 2021, and that these budgets can be submitted to ADB as soon as they are approved by the relevant authorities
- Resources exceeding \$65,000 (inclusive of allocated labour costs, if these are redeployed from existing resources) will be made available by the provincial administrations, MEF and / or MOE for this budget line item for the 2021 budget and carried forward for the duration of the project.

39. It has also been agreed that USUs should now be established before hand over of the completed controlled landfill facilities and related SWM equipment to be procured under the project. This covenant will have to be revisited as it is unlikely that fully functional semi-autonomous USUs within the municipalities of Kampong Chhnang and Pursat are in place before the completion of the landfills by the end of October 2021. One option would be to have a provisional handover upon completion of construction commissioning of the landfill, and the formal handover at the end of the contract liability period

40. A legal review of options for decommissioning the existing dumpsites was conducted during the reporting period. The findings of the analysis are that in Pursat the land title for the existing dumpsite will be transferred to the MA under ongoing bankruptcy procedures of the previous SWM operator and owner of the site. Decommissioning of this site would thus be possible under the loan. However, during years of operating the dumpsite, waste has been deposited far outside the boundaries of the area designated for this dumpsite. For decommissioning of the dumpsite waste has to be collected from the surrounding private land. For the dumpsite in Kampong Chhnang the obligation for proper closure of this site is included in the contract with the SWM operator. The MA will require assistance in enforcing this condition of the contract.

41. . A summary of the covenants is presented in annex 6.

9 ASSESSMENT OF VALIDITY OF KEY ASSUMPTIONS AND RISKS

42. In the Project Design and Monitoring Framework the following risks that could adversely affect effective implementation and sustainable benefits had been identified. The present validity of those risks have not changed since the last reporting period and can be summarized as follows:

Assumptions and Risks	Validity
Outcome Improved urban services and enhanced	climate change resilience in Kampong Chhnang and Pursat municipalities.
Economic activities are adversely affected by natural disasters and lack of climate change impact mitigation. Municipalities are not prepared to collect revenues for O&M of urban infrastructure.	<p>MEF has requested the cancellation of the Kampong Chhnang embankment which was vulnerable to damage by natural disasters.</p> <p>The severe flooding in Pursat during October 2020 revealed a new vulnerability of this area to flooding. The cause of this unprecedented flooding will have to be further investigated. Under the project measures are taken to protect the new infrastructure from future flood damage. However, flooding of this magnitude will affect the operation of the drainage system and the WWTP during these flooding events</p> <p>The capacity for resource mobilization by Municipalities will have to be studied in more detail under a new consultant services package for institutional development. Detailed designs have considered the initial investment cost versus O&M cost of the infrastructures.</p>
Output 1. Kampong Chhnang urban area environmental improvements	
Project start-up delays increase the number of affected people along the embankment alignment CSOs and/or NGOs raise concerns during project implementation.	MEF has requested for the cancellation of the embankment, based on this request the ADB is processing a project scope change
Output 2. Pursat urban area environmental improvements	
NGOs raise concerns during project implementation	The INGO under package 4 will close cooperate with local NGOs and timely address the concerns of affected people. Beneficiary population and the general population. The implementation of the stakeholder communication plan should timely address and mitigate these concerns.
Output 3. Community mobilization and environmental improvements	
CSOs and/or NGOs raise concerns during project implementation.	See above
Output 4. Strengthened sector coordination and operations	
A plan for climate change adaption will be difficult to formulate as short and midterm environmental impacts will mainly result from the flow alterations in the Mekong River, due to development activities in the upstream countries. These will cause negative effects for ecosystem productivity, and thus also for livelihoods of the inhabitants of Tonle Sap floodplain, who directly depend on the lake's natural resources. The projected changes in the dry-season water levels, estimated to increase the water level in Tonle Sap Lake by 0.15– 0.60 m, would, in particular, be harmful to the present ecosystem of the lake.	<p>Under the proposed scope change for the project protection from river induced flooding will be provided to WWTP for the Kampong Chhnang sewerage/drainage system, The improvement and extension of the existing drainage system will protect 1.340 from flooding by storm water runoff.</p> <p>The cause of the recent severe flooding of the Pursat area has not yet been fully investigated and these severe flood events may reoccur. Such flooding events will reduce the effectiveness of the new drainage system and interrupt the operation of the WWTP.</p> <p>It is not yet know if climate change has contributed to the recent Pursat flooding events.</p>
Output 5. Strengthened capacity for project implementation, and operations and maintenance	
Participants might not be fully receptive to the training and capacity building	A detailed training needs assessment has been completed, Based on detailed consultations with all the potential recipients of training activities
Financial Management Arrangements	

<p>Municipalities are not prepared to collect revenues for O&M of urban infrastructure.</p>	<p>Problems in revenue collection are being identified by the municipal financing specialists. Establishment of the USUs would improve the capacity of municipalities to collect revenues.</p> <p>However, the new TA that will support the establishment of the USU and financial management has not yet been established.</p>
<p>The project implementation units (PIUs) in Kampong Chhnang and Pursat are new entities and may have difficulty in managing project sub-accounts and adhering to accounting policies and procedures.</p>	<p>The PIUs will draw management staff from PDPWTs and municipalities. A PMU in the MPWT will support the PIUs in project implementation. The PMU will use a project financial management system developed under previous ADB projects, and will be responsible for all procurement. It will support the PIUs, with assistance from the PMIS consultants. A provincial coordination committee will guide the project in each town.</p>
<p>Fund mismanagement</p>	<p>The implementation arrangements are outlined in the project administration manual. All procurement will be done from within the PMU; a representative from each PIU will be invited to participate on the procurement committee. An imprest account will be established in the PMU. However, a sub-account has not yet been established in each PIU. This casts doubt over the viability to transform the PIUs into USUs.</p>
<p>Inadequate internal audit</p>	<p>Each government ministry has a Department of Inspectorate, whose role is to carry out the functions of an internal auditor within the ministry, and ensure that government rules and regulations are observed at all times. The MPWT has extensive experience in undertaking audits for externally financed projects. The Standard Operating Procedures for all Externally Financed Projects/Programs in Cambodia (May 2012) outline the requirements for internal audit.</p>
<p>Inadequate external audit</p>	<p>The MEF has recruited an independent auditor to carry out external audits of all externally financed projects, including ADB-supported projects. The Standard Operating Procedures for all Externally Financed Projects/Programs in Cambodia (May 2012) outline the requirements for external audit.</p>

10 TARGETS FOR THE NEXT QUARTER

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

Targets this quarter	Compliance	Targets next quarter
DED, BOQ, Cost estimates will be finalized based on comments of ADB	The draft final DED, BOQ, Cost Estimates and bidding documents have been completed and comments have been received from ADB	DED, BOQ, Cost estimates will be finalized based on comments of ADB for the ADB NOL and Issuance of Bidding Documents
Final IESIA report will be submitted to MoE for the inter-ministerial meeting and obtaining the environmental license	The final IESIA has been submitted to MOE	The inter-ministerial meeting is scheduled for August 2021
Preparatory works for determining the COI of the works in the Kampong Chhnang Sewerage, WWTP and Drainage system for conducting the resettlement DMS after the scope change approval	The COI has been prepared and submitted to GDR, the DMS will start after approval of the scope change and the final DED by ADB	Preparation of the DMS by GDR
Data entry in the alternative online system will be completed and draft masterplan report submitted		Data entry in the alternative online system will be completed and draft masterplan report submitted
CW05-V02 for the reconstruction of the Kaoh village river embankment will be prepared and reconstruction of the river embankment will be completed within Q2 CW06-V01 for additional works in the Kampong Chhnang and Pursat landfills will be completed and additional works will be initiated	CW05-VO1 for additional works in the WWTP and the irrigation canal embankment has been approved and works are ongoing. CW06 VO2 for the reconstruction of the Kaoh village river embankment has been approved and works are ongoing CW06-VO1 for the construction of an additional landfill cell in both the Kampong Chhnang and Pursat has been submitted for approval to ADB	CW05-V02 for the reconstruction of the Kaoh village river embankment will be prepared and reconstruction of the river embankment will be completed CW06-V01 for additional works in the Kampong Chhnang and Pursat landfills will be completed
G07 Requirements, Specification and Bidding Documents will be finalized for the procurement of SWM equipment for Kampong Chhnang and Pursat	Because of the extension of the Kampong Chhnang landfill completion date, the procurement of equipment has been shifted to Q3. Because of the COVID situation these surveys have been postponed.	G07 Requirements, and Specifications for SWM equipment will be finalized for Kampong Chhnang and Pursat
Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions	The GAP has been updated and the semi-annual monitoring reports have been submitted. The Consolidated semi annual Environmental and Social Safeguard monitoring reports are being prepared	Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions
With the reconstruction of the river embankment in the Kaoh village, it is possible to proceed with the planned installation of VIP latrines in the Kaoh village	The installation of VIP latrines in the Toul Mkak and Kaoh Villages has been started.	Installation of VIP latrines in the Toul Mkak and Kaoh villages will be completed. Arrangements will be made for the supply of additional sanitation equipment and rain water harvesting

Targets this quarter	Compliance	Targets next quarter
Construction supervision will be continued as far as the COVID restriction will allow the supervision activities	Construction supervision was continued, with the limitations imposed by the COVID situation	Construction supervision will be continued as far as the COVID restriction will allow the supervision activities

44. The limitations imposed by the COVID pandemic will continue to affect the achievement of project targets. At present it is still not possible to mobilize the international specialists and, field level activities have to be implemented with care, respecting the restrictions on public meetings and social distancing. The COVID restrictions especially the impossibility to mobilize international specialists will continue to negatively impact the level of support PMIS can provide for the implementation of project activities.

Annexes

Annex 1 : Revised Implementation Schedule



Project: Implementation schedu
Date: Sat 7/31/21

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

Annex 2 : Revised Personnel Schedule

Annex 3 : Contract Award and Disbursement Projections

Annex 4 : Gender Action Plan Monitoring Table

GENDER ACTION PLAN (GAP MONITORING TABLE) -Revised GAP, but not yet approved

Date of Update: 1 April to 30 June 2021

Date of Update: June 30, 2021

Project Title: Integrated Urban Environmental Management in the Tonle Sap Basin Project (RRP CAM 42285)

Country: Cambodia

Project Number: RRP CAM 42285

Type of Project (Loan/Grant/TA): Loan 0454

Approval and Timeline: 10 November 2015 – 30 April 2023

Gender Category: Effective Gender Mainstreaming (EGM)

Mission Leader: Alexander Nash, Urban Development Specialist

Project Impact: Increased economic activities and environmental protection in towns in the Tonle Sap Basin.

Project Outcome: Improves urban services and enhance climate change resilience in Kampong Chhnang and Pursat municipalities.

<p align="center">GENDER ACTION PLAN</p> <p align="center">(GAP Activities, Indicators, and Targets, Timeframe, and responsibility)</p>	<p align="center">Progress to Date</p> <p align="center">(This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)</p>	<p align="center">Issues and Challenges</p> <p align="center">(Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)</p>
<p>Output 1: Policy and Regulatory Environmental Improved</p>		
<p>1.1 Women's sanitation issues are incorporated in updated building code applications for two</p>	<p>The issues have incorporated in updated building code application for two town during the national workshop on Climate Change in December 28, 2019.</p>	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
provincial towns around Tonle Sap (e.g., space in public bathrooms and separate toilets). Action 1: Completed/Achieved DMF 4b Responsibility: PMU, municipal, sangkat (sub-district), and village authorities, PMIS consultants, institutional specialist, and PDoWA Time: 2021		
<i>1.2 Women's climate change needs and issues are incorporated in the proposed climate change adaptation regulations for urban environmental improvements.</i> Action 2: Completed/Achieved DMF 4a. Responsibility: PMU, municipal, sangkat (sub-district), and village authorities, PMIS consultants, institutional specialist, and PDoWA Time: 2021	The women's climate change needs and issues have incorporated in updated building code application for two town during the national workshop on Climate Change in December 28, 2019.	
1.3 At least 1 sector coordination meeting, chaired by MPWT, will include a discussion related to women's needs in integrated urban environmental management over project implementation. Target 1: Completed/Achieved DMF 4c Responsibility: PMU, municipal, sangkat (sub-district), and village authorities, PMIS consultants, institutional specialist, and PDoWA	- The coordination meeting conducted in December 28, 2019,	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
Time: 2021		
1.4 Tonle Sap Urban Areas Development Framework and individual urban development strategies for Kampong Chhnang and Pursat are explained to women's groups. Action 3: Completed/Achieved Responsibility: PMU, municipal, sangkat (sub-district), and village authorities, PMIS consultants, institutional specialist, and PDoWA Time: 2021	The design process for the community interventions in both provinces was informed by meaningful and continual consultations with the project participants. The consultation conducted in May, June and October 2020 by partner NGO/PADEK. Women folk formed the majority of the participants and respondents to the assessments in both town to target communities at Kampong Chhnang and Pursat,	
1.5 Sanitation and waste management units in Kampong Chhnang and Pursat municipality are established and become operational (at least 20% of staff in each unit are women). Target 2: N/A, DFM 3a Responsibility: PMU, municipal, sangkat (sub-district), and village authorities, PMIS consultants, institutional specialist, and PDoWA Timeline: project closing	It is proposed to defer the establishment of USUs from before contract award to before commissioning and hand over of the completed landfill facilities. The requirement, at least 20% of staff in each unit are women will include in the handover MOU of both towns, Both, Pursat and Kampong Chhnang municipalities, the land fields completed about 67%. The draft paper on the Sanitation and Waste management units still not yet start, No longer under the project. MEF withdrawn from the project scope of work	
Output 2: Urban Improved		

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>2.1 Sanitation grants to IDPoor 1 and 2, including at least 20% female-headed households if categorized as IDPoor 1 or IDPoor 2.</p> <p>Target 3: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC</p> <p>Time: 2020 up to 2021</p>	<p>The selection of ID Poor 1 and 2 for providing the toilet constructions has already included the female-headed households for sanitation grants project. The DDR of the project was revised and draft finalized. The design of the latrines was revised again in the end of September to accommodate the evolving beneficiary expectations,</p> <p>The bidding has been completed in end of March 2021 and we are awaiting the first meeting with the identified contractor following which field visits will be organised for the finalisation of the HHs. This is as per the earlier information shared that some HHs had already commenced construction of their toilets owing to the delayed action. This action will be impacted due to the ongoing covid19 pandemic situation with restricted field access,</p> <p>Upto Q2-2021: there are 107 HHs from 2 villages (Toul Makak = 66 HHs and Kosh=41 HHs) have been identified as IDPoor 1 and 2. Due to the delays in the start of the actions, the households have proceeded with the construction of the toilets on their own. The current number of the HHs willing to continue with the toilet support includes-Toul Makak=42 and Kosh= 18 HHs. This provides a gap of 47 HHs to be filled in. The new beneficiary list is being finalised and will be validate with the village within the next 2 weeks.</p>	<ul style="list-style-type: none"> • This action is delayed, • the bulk of the action has to be completed within the dry season

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>2.2 Meaningful consultation with women on detailed designs to ensure their needs and preferences are incorporated, and to include woman and child safety measures (e.g., sidewalk and drainage covers during construction, lighting during night work, appropriate construction barriers, child-safe stormwater drain covers, fencing around wastewater treatment lagoons, kitchen, bathroom, lockers and changing facilities & PPE at landfill sites where waste pickers may present).</p> <p>Action 4: Ongoing</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2018 - 2020</p>	<p>In the preparation of the detailed designs for the Pursat Drainage, Sewerage and WWTP works women have been consulted on design details such as the existing on site solutions for waste water disposal, and willingness to connect to the combined drainage/sewerage lines (it stated in contract's agreement of Kiri Dangrek Co. LTD - paragraph 81)</p> <p>A survey for community participation in solid waste collection is postponed because of the COVID pandemic</p> <p>For the Kampong Chhnang sewerage, flood protection and waste water treatment, social mobilization will be added to the construction supervision team for household level consultation on the existing sanitation facilities and the possibilities for connection to the new sewerlines and to promote these household connections</p>	
<p>2.3 Incorporate menstrual hygiene management features in communities for improved solid waste management (e.g., bins in separate public toilet stalls). Specific support to schools to restore on-site sanitation facilities where these are degraded or non-functional, including appropriate sanitation for girls.</p> <p>Action 5: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2020 - 2021</p>	<ul style="list-style-type: none"> - Will be taking into account in the procurement of solid waste management equipment. Under the NGO VO2 awareness building for proper solid waste, - The term stated in the GAP attached as annex with NGO/PADEK VO2 agreement. - TOR on the role of communities in participation in solid waste collection developed by PNG/PADEK, - The HH latrines and water filters, trash bins and mass awareness campaigns for community level, it to be implemented once the covid19 restrictions ease as we waited for the awareness campaigns to be conducted along with the toilet construction action, 	<p>The role of communities and extent of community participation in solid waste collection is still to be decided.</p>

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
	<ul style="list-style-type: none"> - The Project is studying the public infrastructure options for KPCH, all such structures will be designed will to meet the MRD minimum standard for the toilets. The project has completed the draft plan of sanitation facilities for schools and is currently working on the scale up of the action - These public infra actions will cover the needs of separate units for women and men along with the provisions of trash bins inside the toilets for managing the women menstrual hygiene management needs as well as needs, accessibility and privacy. The public infra actions are being planned currently - Updated Q2-2021: The project has completed the draft plan of sanitation facilities for schools in KPCH and is currently working on the scale up of the action. These public infra actions will cover the needs of separate units for women and men along with the provisions of trash bins inside the toilets for managing the women menstrual hygiene management needs as well as needs, accessibility and privacy. 	
<p>2.4 Meaningful consultations with women in Kampong Chhnang and Pursat on priority small scale infrastructure improvements (e.g., gender-specific requirements for public infrastructure, such as separate latrines for women with trash bins, if appropriate).</p> <p>Action 6: Completed/Achieved</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p>	<ul style="list-style-type: none"> - In the preparation of the detailed designs women have been consulted on design details such as the existing on site solutions for waste water disposal, - The consultations done in eight villages of Sangkat Phteas Prey by Kiri Dangrek Co. LTD to inform about the project implementation in February 2020 (it stated in contraction's agreement with Kiri Dangrek Co. LTD - paragraph 81) 	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
Time: 2018 - 2020		
<p>2.5 PIU and NGO to work closely with PDoWA and WCCCs on ensuring women's participation in project activities.</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2018 – 2022</p> <p>Action 7: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2018 - 2022</p>	<ul style="list-style-type: none"> - The tasks have been oriented to related NGOs and PDoWA on August 11-12, 2020 in both target towns, - NGO/PADEK involves PDoWA in the community activities, - the project team keep liaising with stakeholder INGOs: Save the Children, Oxfam, UNDP, WHO, People in Need, Action Aid, Muslim Aid amongst others. This engagement is as per and in line with the guidance provided in the gender training conducted in the PIU offices in both town. 	
<p>2.6 Equal pay for men and women for work of equal type.</p> <p>Action 8: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2020 - 2022</p>	<ul style="list-style-type: none"> - Relevant clauses on core labor standards and equal pay have been included in the GAP as annex attached within the civil construction contractor's contract. - The unskilled workers mostly do: (i) bending bar, and casting cover rebar of concrete. Both male and female unskilled laborers receive from \$8.00 - \$8.75/day, - The payments records regularly in the logbooks (by bills), 	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>2.6 Safe working conditions for men and women construction workers (e.g., separate toilet facilities for men and women).</p> <p>Action 9: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, contractors, IRC/MEF,</p> <p>Time: 2020 - 2021</p>	<ul style="list-style-type: none"> - Relevant clauses on core labor standards and equal pay have been included in the GAP as special conditions of contract, - The orientation of the works safety particular, at work place, HIV/AIDS and COVID 19 prevention regularly done monthly by the site managers to all project laborers, - the orientation of the works safety postponed due to lock down of COVID19. For prevention, Kiridangrek Construction Co., Ltd has written Health and Safety plan on COVID-19 for daily practice. - Updated Q2- 2021 Kiridangrek Construction Co., Ltd works closely with health center through individual consultant for setting schedule for organizing the training on Work Safety and COVID 19 prevention to their laborers. 	
Outputs 3: Institutional Effective Improved		
<p>3.1 Capacity development program adopted for sanitation and solid waste management units in the participating municipalities, with at least 50 staff trained (30% women) (2020 baseline: n/a)</p> <p>Target 4: N/A DMF 5b</p> <p>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC</p> <p>Time: by 2023</p>	<ul style="list-style-type: none"> - the action will take place when solid waste management units established, - This action no longer under the project scope, MEF withdrew the action, 	<ul style="list-style-type: none"> - Most of the ground work is complete - The action will be actioned in the next phase

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>3.2 Gender-sensitive hygiene promotion campaigns conducted in each participating municipality with women accounting for at least 40% of participants (2020 baseline: n/a).</p> <p>Target 5: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC</p> <p>Time: 2020 – 2022</p>	<ul style="list-style-type: none"> - The public health trainings have covered a series of women and child based topics including maternal and child care, mensural hygiene, solid waste management and environmental sanitation and will continue - This action will prioritize, at least 50% of menstrual hygiene and solid waste management topics along with the training actions. - Public health campaigns and trainings in the month of October had been conducted in Kampong Channang. The continual Covid19 related breakups have affected the implementation plans. - Updated Q2-2021: the COVID19 pademis still affected the implementation plans. 	
<p>3.3 At least 40% of participants in CMEI activities and training are women.</p> <p>Target 6: on-track DMF 3a</p> <p>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC</p> <p>Time: 2018 – 2021</p>	<ul style="list-style-type: none"> - The project has continually ensured that the women participation in the project actions are higher than the set standard. - The Project has conducted trainings topics of Health and Hygiene Promotion, Hazard Vulnerability Capacity Assessment/ participatory vulnerability capacity assessment, Disaster Risk Reduction and Climate Change Adaptation. - A total of 350 (215 females or 61%) vulnerable community members have been trained. The trained participants consist of 61% (215) women, 13% (45) elders, 8% (27) students and 7% (7 physically challenged) specially abled. - The process of design and implementation for CMEI Project is ensuring active women's participation in the target communities and schools in close collaboration and coordination with PIU and PDoWA, WCCCs as well as 	<p>The project foresees a continual and higher degree of participation as we move more towards the solid waste management and septage management processes.</p>

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
	NGOs who implement WASH activities in the operational Geography. This is as per and in line with the guidance provided in the gender training conducted in the PIU offices at both target towns, - Updated Q2-2021: no training activities in this report period,	
3.4 Hygiene IEC campaigns covers topics that are important for women (e.g., at least 30% of hygiene campaigns focus on menstrual hygiene and solid waste management). Target 7: on-track DMF 3c Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC Time: 2020 – 2022	<ul style="list-style-type: none"> - The public health trainings have covered a series of women and child based topics including maternal and child care, mensural hygiene, solid waste management and environmental sanitation and will continue, - Public health trainings were organized in Kampong Channang for 9 participants in 2 rounds with 6 women participants in each trainings (66%) (training list attached). The permission for the campaigns were not possible due to the pandemic situation. This action will prioritize, at least 50% of menstrual hygiene and solid waste management topics along with the training actions. - Public health campaigns and trainings in both provinces are planned for the month of October and November. The floods in the region have pushed activities alittle. The same people will be provided additional trainings in the coming months in the training of trainers mode. - Updated Q2-2021: No campaign activities been conducted during this report period due to COVID19 pademic, 	
3.5 Capacity development and IEC materials will be gender-sensitive. Action 10: On-track	<ul style="list-style-type: none"> - The CMEI Project has published a first round of IEC posters which were certified by MRD and the WATSAN group Cambodia and have been disseminated in the field with good receptivity 	<ul style="list-style-type: none"> - Most of the ground work is complete

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDoWA, and WCCC</p> <p>Time: 2020 - 2022</p>	<ul style="list-style-type: none"> - The project team has consulted with the ADB gender focal on the need for newer IEC materials with special focus on Women specific needs- this action will be actioned in the next phase of programming. - The project is continually liaising with other INGOs: Save the Children, Oxfam, UNDP, WHO, People in Need, Action Aid, Muslim Aid amongst others and focus groups for the sharing of relevant IEC materials which are already developed to ensure cost effectiveness (on preparation part) and enhanced options (on dissemination) part. - The IEC: posters and these are provided to the school, health centers, provincial offices and other public institutions in the operational geography. The mass messaging nature of the action to the whole town as the catchment of reception, - This is a continual action (provide date) till July 2022 	<ul style="list-style-type: none"> - The action will be actioned in the next phase
<p>3.6 At least 20% of technical training participants are qualified women.</p> <p>Target 8: Not yet due DMF: 5a</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: by 2023</p>	<ul style="list-style-type: none"> - Technical training has not yet been started - Technical training has been taken out from the PMIS, 	
Output 4: Project Management and Gender Specific Activities		

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>4.1 At least 30% of PMU and 30% of staff in both PIUs are women (2014 Baseline: PMU=1 woman; PIUs have not been established).</p> <p>Target 9: Completed/Achieved</p> <p>Responsibility: MPWT/PDPWT, PMU, PMIS Consultants, and PDoWA</p> <p>Timeline: 2017 - 2022</p>	<p>As of December 2020, the composition of PMUs and PIUs for the PMIS-IUEMTSB-Tonle Sap 1¹:</p> <ul style="list-style-type: none"> - 2 (29%) females/7 PMUs - 3 (27%) females of 11 PIUs for K. Chhnang, - 3 (33%) females of 9 PIUs for Pursat <p>In overall, it meet the target, the pecentage of females PMUs and PIUs are 30%,</p>	
<p>4.2 Project management and implementation consultants include an international social development /resettlement specialist (6 person-months) and a national gender specialist (6 person-months).</p> <p>Target 10 : Completed/Achieved</p> <p>Responsibility: MPWT/PDPWT, PMU, PMIS Consultants, and PDoWA</p> <p>Time: 2017 - 2022</p>	<ul style="list-style-type: none"> - The input of the international resettlement specialist has been increased to 10.5 pm and the input of the national resettlement specialist has been increased to 20 pm to support the preparation of the scope changes for the project - The national gender specialist started mobilizing from May 2020. 	

¹ List of PMUs and PIUs of Pursat and Kampong Chhnang stated in the last page of the GAP

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
<p>4.3 Gender sensitivity and mainstreaming training is administered to all project staff (PSC, PMU, PIUs, and PCC).</p> <p>Target 11: Completed/Achieved</p> <p>Responsibility: MPWT/PDPWT, PMU, PMIS Consultants, and PDoWA</p> <p>Time: 2020</p>	<ul style="list-style-type: none"> - The orientation on Gender Mainstreaming and GAP orientation engaged 39 (14F = 36%) participants consisted of 2 PMUs, 17 PIUs, 4 PDoWA, 7 staffs of NGO/PADEK, 6 contractors and 3 PMIS consultants in Kampong Chhnang on August 11, and Pursat on August 12, 2020. 	
<p>4.4 A resettlement/social development officer is appointed in the PMU</p> <p>Action 11: Achieved/Completed</p> <p>Responsibility: PMU, PIUs, PMIS consultants,</p> <p>Time: 2017</p>	<ul style="list-style-type: none"> - Mr. Vong Rada, PMU, appointed to in-charge for Resettlement and Mr. Chey Tech, resettlement expert recruited in PMU office, 	
<p>4.5 At least 1 member of the Project Steering Committee is a woman.</p> <p>Target 12: Note yet due</p> <p>Responsibility: MPWT/PDPWT, PMU, PMIS Consultants, and PDOWA</p> <p>Time: 2017 - 2022</p>	<ul style="list-style-type: none"> - Upcoming activity 	
<p>4.6 The NGO appoints at least 30% women as part of their team for each town in Kampong Chhnang and Pursat.</p>	<ul style="list-style-type: none"> - 4 (2 females or 50%) provincial coordinators recruited by PADEK for CMEI, - Keep updating for the female staff face out, 	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
Target 13: on-track Responsibility: PMU, PIUs, PMIS consultants, and WCCC Time: 2018		
4.7 A government community coordinator is appointed in Pursat PIU and two government community coordinators are in Kampong Chhnang PIU. Target 14: Completed/Achieved Responsibility: PMU, PIUs, PMIS consultants, PDoWA, Time: 2017	<ul style="list-style-type: none"> - Community coordinators have been appointed in both the Kampong Chhnang and Pursat PIUs, - The community coordinators are seconded from the respective municipality staff, 	
4.8 Project performance monitoring system includes sex-disaggregated data. Action 12: on-track Responsibility: PMU, PIUs, PMIS consultants, and contractors, Time: 2020 - 2022	<ul style="list-style-type: none"> - Sex-disaggregated data collection from civil construction contractors by using manpower monitoring table. - As of September 30, 2020, out of a total 19,233 unskilled labor days, 3,529 (20%) days claimed by women under the construction work. Type of activities performance by women included: (i) bending bar, (ii) cleaning the road, (iii) deliver brick and mixed cement and (iv) flag person, painting and etc. Female unskilled workers received training from the company on concrete work, painting work, bending, installing rebar to enable their work in the construction. 	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
	<ul style="list-style-type: none"> - As of December 31, 2020, out of a total 31,756 unskilled labor days, 5,657 (19%) days claimed by women under the construction work. - Updated Q2-2021: As of June 30, 2021, out of a total 42,543 unskilled labor days, 8,152 (19%) days claimed by women under the construction work. 	
<p>4.9 The annual project performance monitoring and evaluation reports will include progress against these indicators.</p> <p>Action 13: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants and contractors,</p> <p>Time: 2019 - 2022</p>	<ul style="list-style-type: none"> - Sex-disaggregated indicators and progress against these indicators has been included in the GAP, as was done in the revision proposed by the PMIS 	
<p>4.10 Progress reports (e.g., quarterly, safeguards, annual project performance monitoring and evaluation, and PPCR reports) include information on gender activities. The GAP monitoring table is updated and attached to the project progress report (twice a year).</p> <p>Action 14: on-track</p> <p>Responsibility: PMU, PIUs, PMIS consultants, PDoWA, contractors, IRC/MEF, and WCCC</p> <p>Time: 2019 - 2022</p>	<ul style="list-style-type: none"> - The GAP monitoring table as revised by the PMIS has been included in each QPR, however no comments have been received on this revised version and the present GAP is different from the revision proposed by the PMIS in September 2018. The PMIS will now adopt this version for future reporting - The GAP monitoring table revised by gender specialist prior to ADB format on 30 September 2020, - The GAP monitoring table updated quarterly, 	

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
4.11 GAP performance included in mid-term and final project reviews. Action 15: not yet due Responsibility: PMU, PIUs, PMIS consultants, and Contractors, Time: 2022	- Works have not yet been started and apart from consultations and data collection no activities under the GAP have been implemented	

CMEI = community mobilization and environmental improvements, PDPWT = provincial department of public works and transport, PDoWA = provincial department of women's affairs, GAP = gender action plan, IEC = information education and communication, IRC = Inter-ministerial Resettlement Committee, MEF = Ministry of Economy and Finance, MPWT = Ministry of Public Works and Transport, NGO = nongovernmental organizations, PCC = provincial coordination committee, PIU = project implementation unit, PMIS = project management and implementation support, PMU = project management unit, WCCC = women and children's consultative committee.

Source: Asian Development Bank

GAP implementation in summary

The project is effective gender mainstreaming and the GAP covers 15 action and 14 quantitative targets.

Total Action = 15; # of Completed/Achieved = 6 (40%) ; # of On-track = 8 53%); # of Not yet due = 1 (7%); # of Off-track = 0

Total Target = 14; # of Completed/Achieved = 5 (36%) ; # of On-track = 5 (36%); # of Not yet due = 2 (14%); # of Off-track = 0 and # of N/A² = 2 (14%);

As of 30 June 2021, the activities for implementation of GAP and gender indicators in DMF were accomplished as following:

(i) Actions

² These target no longer under the project scope after MEF withdrawal,

- 1) **Action 1 – DMF: 4c:** The issues have incorporated in updated building code application for two town during the national workshop on Climate Change in December 28, 2019.
- 2) **Action 2 – DMF: 4a:** The women’s climate change needs and issues have incorporated in updated building code application for two town during the national workshop on Climate Change in December 28, 2019.
- 3) **Action 3:** The design process for the community interventions in both provinces was informed by meaningful and continual consultations with the project participants. The consultation conducted in May, June and October 2020 by partner NGO/PADEK. Women folk formed the majority of the participants and respondents to the assessments in both town to target communities at Kampong Chhnang and Pursat,
- 4) **Action 4:** In the preparation of the detailed designs women have been consulted on design details such as the existing on site solutions for waste water disposal, (it stated in contract’s agreement of Kiri Dangrek Co. LTD - paragraph 81)
- 5) **Action 6:** - In the preparation of the detailed designs women have been consulted on design details such as the existing on site solutions for waste water disposal. The second consultations done in eight villages of Sangkat Phteas Prey by Kiri Dangrek Co. LTD to inform about the project implementation in February 2020 (it stated in contraction’s agreement with Kiri Dangrek Co. LTD - paragraph 81)
- 6) **Action 11:** Mr. Vong Rada, PMU, appointed to in-charge for Resettlement and Mr. Chey Tech, resettlement expert recruited in PMU office,

(ii) **Target:**

- 1) **Target 1:** the sector coordination meeting, chaired by MPWT was done on December 28, 2019. The meeting has discussed about women’s needs in integrated urban environmental management over project implementation.
- 2) **Target 9:** As of December 2020, the percentage of females PMUs and PIUs are 30%: 2 (29%) females/7 PMUs; 3 (27%) females of 11 PIUs for Kampong Chhnang; and 3 (33%) females of 9 PIUs for Pursat,
- 3) **Target 10:** The input of the international resettlement specialist has been increased to 10.5 pm and the input of the national resettlement specialist has been increased to 20 pm to support the preparation of the scope changes for the project. The national gender specialist started mobilizing from May 2020.
- 4) **Target 11:** The orientation on Gender Mainstreaming and GAP orientation engaged 39 (14F = 36%) participants consisted of 2 PMUs, 17 PIUs, 4 PDoWA, 7 staffs of NGO/PADEK, 6 contractors and 3 PMIS consultants in Kampong Chhnang on August 11, and Pursat on August 12, 2020.
- 5) **Target 14:** Community coordinators have been appointed in both the Kampong Chhnang and Pursat PIUs. The community coordinators are seconded from the respective municipality staff

**INTERGATED URBAN ENVIROMENTAL MANAGEEMENT IN THE TONLE SAP
PROJECT**

PMU/MPWT/ IUEMTSBP/ICB/CW05

List of PMUs and PIUs of Pursat and Kampong Chhnang

No.	Name	Title	Remarks
PMUs Composition			
1.	HE. Vong Piseth	Deputy General Director, Project Director	
2.	Mr. Paou Manith	In-charge for PMIS	
3.	Ms. Thab Soliny	In-charge for Accountanting	
4.	Mr. Vong Rada	In-charge for Technical	
5.	Mr. Ngan Sokol	In-charge for General	
6.	Mr. Prok Novida	In-charge for Technical	
7.	Ms. Pann Siyon	PMU's Official	
PIUs Kampong Chhnang			
1.	Mr. Chhay Leaphea	Deputy Director, PDoPWT Chief of PIU	
2.	Mr. Yin Borin	Deputy Director, PDoPWT Vice-Chief of PIU	
3.	Mr. Keo Viet	Vice-chief office of Public Work	
4.	Mr. Eang Huor	Officials, Office of PW	
5.	Mr. Prum Chan Sopheap	Provincial Hall, Resettlement	
6.	Mr. Meas Yuthynavann	Chief of Planning Office Urban Development Plan	
7.	Mr. Mok Soklim	Vice-chief of Municipality Procurement, Social and Environmental,	
8.	Mr. Sok Chhan Veasna	Chief of Accounting Office	
9.	Ms. Rom Srey Rath	Administration	
10.	Ms. Un Solina	PIU's officials	
11.	Ms. Phon Youdy	PIU's officials	

PIUs Pursat			
1.	Mr. Chinh Kuon	Deputy Director, PDoPWT Chief of PIU	
2.	Mr. Yam Ya	Deputy Governor of Municipality, Vice-chief of PIU	
3.	Mr. Chak Say	Inter-sectoral Managing Director	
4.	Mr. Kang Kim Chhun	In-charge for Technical	
5.	Mr. Thon Sophearun	In-charge for Resettlement	
6.	Mr. Phin Narin	In-charge for Finance	
7.	Ms. Svay Chan Chakrya	Administrative	
8.	Ms. Kim Chakrya	In-charge for Social & Environmental	
9.	Ms. Kol Kongkea	PIU's officials	

Annex 5 : Compliance with Loan Covenants

Ref	COVENANT	STATUS	ACTIONS	REMARKS
Covenants in the Loan Agreement				
Sched 5, para 2	<p>Tonle Sap Urban Areas Development Framework. Within 18 months of the Effective Date, the Borrower shall ensure the adoption of the Tonle Sap Urban Areas Development Framework, an urban planning document that guides sustainable and climate resilient infrastructure development and growth of urban areas in the Tonle Sap basin.</p>	<p>Due in September 2017.</p> <p>Under review by Under Secretary of State.</p>	<p>Prakas to be adopted following further review by Secretary of State, Minister MPWT.</p>	<p>Adoption is pending</p>
Sched 5, para 3	<p>Roadmap for Establishing Urban Service Units: Within 12 months of the Effective Date, the Borrower shall ensure, and cause the Project Executing Agency to ensure, that the plans for establishing semi-autonomous USUs within the municipalities of Kampong Chhnang and Pursat are in place, including relevant draft ministerial <u>prakas (or ministerial decisions) to be signed by MPWT</u> for the establishment of USUs, its board of directors (or its equivalent), staffing requirements, human resource recruitment plan, office location, reporting responsibilities, financial management and audit requirements, good governance actions, assets transfer, and <u>timeline and process of conversion from a PIU to a USU.</u></p> <p>Has been amended as follows:</p> <p><i>The Borrower shall ensure, and cause the Project Executing Agency to ensure, that by the handover date of the first completed sub project for solid waste, flood protection or drainage works the PIUs in Kampong Chhnang and Pursat have been replaced by fully-operational, semi-autonomous USUs for the sustainable operations and maintenance of urban infrastructure and delivery of reliable urban services in their respective municipalities</i></p> <p><i>The Borrower shall ensure, and cause the Project Executing Agency to ensure, that by the handover date of the first completed sub project for solid waste, flood protection or drainage works each USU is established as a special operating agency with a committee (or equivalent) with the authority to levy the Environmental Sanitation Fees.</i></p>	<p>Due by March 2021.</p>	<p>Establishment of USUs will be supported by a new ADB funded TA for institutional development support with the emphasis on administrative and financial management</p>	<p>This covenant will have to be revisited as it is unlikely that fully functional semi-autonomous USUs within the municipalities of Kampong Chhnang and Pursat are in place before the completion of the landfills by the end of October 2021. One option would be to have a provisional handover upon completion of construction commissioning of the landfill, and the formal handover at the end of the contract liability period</p>

Ref	COVENANT	STATUS	ACTIONS	REMARKS
Sched 5, para 4	<p>Environmental Sanitation Fees. Within 18 months of the Effective Date, the Borrower shall ensure, and cause the Project Executing Agency to ensure, that each USU conducts a review of existing Environmental Sanitation Fees levied in the municipalities of Kampong Chhnang and Pursat and completes a feasibility study on levying Environmental Sanitation Fees that recovers operations and maintenance costs and gradual depreciation of solid waste management, flood control and drainage, taking into account affordability for the poor.</p> <p>Has been amended as follows: <i>The Borrower shall ensure, and cause the Project Executing Agency to ensure, that by the contract handover date for each solid waste management, flood control and drainage sub-project each relevant USU adopts the part of the Environmental Sanitation Fees relating to that sub project, determined by ADB to be sufficient to recover full operations and maintenance costs of the relevant sub project. Each USU shall undertake an annual assessment and will implement the aforesaid fee adjustments by January 1 of each year, starting 2021</i></p>	Due in January 2021.	Review ongoing under PMIS. In light of the scheduling of other activities related to the construction of solid waste and waste water/drainage infrastructure the date for the establishment of an environmental sanitation fee was premature	
Sched 5, para 5	<p>Project Performance Monitoring and Evaluation. Within 18 months of the Effective Date, the Borrower shall ensure, and cause the Project Executing Agency to ensure, that a project performance monitoring and evaluation is established, acceptable to ADB, to monitor and evaluate the Project performance during implementation.</p>	Due in September 2017	Project Performance Monitoring is ongoing, it has been agreed that the PPR can be expanded, incorporating a data set for the DMF, to form the PPME	Since multiple consultant teams are involved in the implementation of the project responsibilities for and coordination of data collection will need proper coordination. And possibly the development of an online data collection system
Sched 5, para 6	<p>Environmental Decommissioning of Open Dumpsites. The Borrower shall ensure and cause the Project Executing Agency to ensure that the open dumpsites in Kampong Chhnang and Pursat relating to the Project shall be closed and properly decommissioned according to the plans set forth in the IEEs and finally in the IEEs updated during detailed design.</p>	Due After commissioning of the new controlled landfills	The existing open dumpsites are mainly located on private land owned or leased by the SWM contractors. A legal review of the options for decommissioning the existing dumpsites has been carried out	The findings of the review are that in Pursat the land title for the existing dumpsite will be transferred to the MA under ongoing bankruptcy procedures of the previous SWM operator and owner of the site. Decommissioning of this site would thus be possible under the loan. However, during years of operating the dumpsite, waste has been deposited far outside

Ref	COVENANT	STATUS	ACTIONS	REMARKS
				the boundaries of the area designated for this dumpsite. For decommissioning of the dumpsite waste has to be collected from the surrounding private land.
Sched 5, para 7	Plan for Climate Change Adaptation. Within 36 months of the Effective Date , the Borrower shall ensure that the Project Executing Agency has adopted the plan for climate change adaptation in urban areas around the Tonle Sap and revised building codes.	Due by 02 March 2019 Non-compliant	The present status of the building code that was reported to be under revision by the Ministry of Land Management, Urban Planning and Construction is unknown	At the time of the preparation of Climate Change Adaptation in Urban Development no building code was in existence. The CCAS report does not contain any specific building specifications or design standards that can be transformed into building codes. The covenant should be reconsidered.
Sched 5, para 8	Counterpart Funds. The Borrower shall ensure that all counterpart funds necessary for the Project is provided on a timely basis.	In compliance		
Sched 5, para 9	Environment. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the EARF, IEEs, the EMPs, and any corrective or preventative actions set forth in a Safeguards Monitoring Report. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that the foregoing is applied and implemented for all outputs of the Project described in Schedule 1, regardless of the financing source.	In compliance	Updating the EMPs and IEE for the Pursat and kampong Chhnang landfills has been completed and approved The preparation of the MEF has issued the IESIA licenses for the landfill and Pursat sewerage/drainage subprojects The IEE for the Kampong Chhnang sewerage, WWTP and drainage subproject has been completed The preparation of the IESIA is ongoing and it is expected that the environmental license	

Ref	COVENANT	STATUS	ACTIONS	REMARKS
			will be issued by MoE by the end of Q2 2021	
<p>Sched 5, para 10</p>	<p>Land Acquisition and Involuntary Resettlement. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that all land and all rights-of-way required for the Project are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with the RPs based on (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the applicable principles and requirements set forth in the SPS; and (c) any necessary corrective or preventative actions as agreed by the IRC set forth in a Safeguards Monitoring Report.</p> <p>Without limiting the application of the SPS or the RPs, the Borrower shall ensure or cause the Project Executing Agency to ensure that no physical or economic displacement takes place in connection with the Project until:</p> <p>(a) prior to the award of any Works contract which involves involuntary resettlement impacts, the Borrower has (i) updated the agreed RPs following completion of detailed design; and (ii) prepared, disclosed to affected persons and submitted to ADB the final RPs based on the Project's detailed design and obtained ADB's concurrence with such RPs;</p> <p>(b) compensation and other entitlements have been provided to affected people in accordance with the RPs; and</p> <p>(c) a comprehensive income and livelihood improvement program has been put in place in accordance with the RPs.</p>	<p>Will be in compliance after approval of the project scope change</p>	<p>The project scope change is expected to be approved by the ADB board during Q2 2021</p>	
<p>Sched 5, para 11</p>	<p>Indigenous Peoples. The Project, including Output 3 described in Schedule 1 hereto, shall benefit Ethnic Minorities. The Borrower shall ensure and cause the Project Executing Agency to ensure, that it adheres to applicable laws and regulations of the Borrower relating to indigenous peoples, and the Indigenous Peoples Safeguards and any corrective or preventative actions set forth in a Safeguard Monitoring Report.</p>	<p>In compliance, no indigenous people are affected by the subprojects</p>		

Ref	COVENANT	STATUS	ACTIONS	REMARKS
Sched 5, para 12	Human and Financial Resources to Implement Safeguards Requirements. The Borrower shall ensure, and cause the Project Executing Agency to ensure, to make available the necessary budgetary and human resources to fully implement the EARF, EMPs and the RPs.	In compliance		
Sched 5, para 13	<p>Safeguards – Related Provisions in Bidding Documents and Works Contracts. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures relevant to the contractor set forth in the EARF, IEEs, the EMPs and the RPs (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;</p> <p>(b) make available a budget for all such environmental and social measures; and</p> <p>(c) provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the EARF, IEEs, the EMPs and the RPs.</p>	In compliance	All conditions related to safeguards compliance have been incorporated in the relevant sections of the bidding documents and no objections from ADB to the bidding documents has been received	
Sched 5, para 15	<p>Safeguards Monitoring and Reporting. The Borrower shall ensure, and cause the Project Executing Agency to do the following:</p> <p>(a) no later than the commencement of land acquisition and resettlement activities, engage qualified and experienced external monitoring organization(s) (EMO), under the terms of reference(s) acceptable to the Borrower and ADB to verify information produced through the Project monitoring process and facilitate the carrying out of any verification activities;</p> <p>(b) submit quarterly Safeguards Monitoring Reports relating to implementation of and compliance with the RPs and submit semi-annual Safeguards Monitoring Reports relating to the implementation of and compliance with the EARF, EMPs, and any IPP (if it becomes applicable), in each case to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p>	Being brought in compliance	External monitoring organization to be recruited by GDR	To be recruited

Ref	COVENANT	STATUS	ACTIONS	REMARKS
	<p>(c) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the EARF, IEEs, the EMPs and the RPs, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(d) report any actual or potential breach of compliance with the measures and requirements set forth in the EARF, EMPs or the RPs promptly after becoming aware of the breach.</p>			
<p>Sched 5, para 16</p>	<p>Gender and Development. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that (a) the GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provisions for contractors to comply with the measures set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; (d) progress on implementation of the GAP, including progress toward achieving key gender outcome and output targets, are regularly monitored and reported to ADB; and (e) key gender outcome and output targets including, but not limited to, 30% of staff in the PMU and PIUs and 20% of staff of USUs shall be composed of women.</p>	<p>Ongoing</p>	<p>Relevant provisions of the GAP have been included in the bidding documents. The status of the GAP is included in the QPR. PMU and PIUs have not met the targets of respectively 30% and 20% female professional staff.</p>	
<p>Sched 5, para 17</p>	<p>Labor. The Borrower shall ensure, and cause the Project Executing Agency to ensure (i) compliance with all applicable labor laws of the Borrower on the prohibition of child and forced labor; (ii) giving of equal pay for equal work regardless of gender, ethnicity or social group; and (iii) dissemination of information on sexually transmitted diseases (including HIV/AIDS) and human trafficking to sub-contractors/employees and local communities surrounding the Project construction sites.</p>	<p>In compliance</p>	<p>All conditions related to applicable labor laws have been incorporated in the relevant sections of the bidding documents and no objections from ADB to the bidding documents has been received. Compliance with these conditions is being monitored by PMIS supervision staff.</p>	

Ref	COVENANT	STATUS	ACTIONS	REMARKS
Sched 5, para 18	<p>Governance and Anticorruption. The Borrower, the Project Executing Agency and the Project Implementing Agencies shall (a) comply with ADB's Anticorruption Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.</p>	In compliance		
	<p>The Borrower, the Project Executing Agency and the Project Implementing Agencies shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project.</p>	In compliance		
Sched 5, para 19	<p>Prohibited List of Investments. The Borrower shall ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.</p>	In compliance		

Annex 6 : Overview of the input by Key International and National Specialists

KEY EXPERT (INTERNATIONAL)

No.	Expert / Position	Original Contract + VO 1, 2, 3, 4			Up to Last Quarter		This Quarter		Total		Balance	
		Input (Person-Months)		Total Inputs	Total Input (Person-Months)		Total Input (Person-Months)		Total Input (Person-Months)		Total Input (Person-Months)	
		Home	Field		Home	Field	Home	Field	Home	Field	Home	Field
A. Remuneration												
Key Expert (International)												
KI-01	Christopher Konecki/Louis RIJK <i>Team Leader / Municipal Engineer</i>	1.50	33.50	35.00	0.50	29.53	-	0.98	0.50	30.51	1.00	2.99
KI-02	KIM, Dong Min <i>Geotechnical Engineer</i>	0.00	2.27	2.27	0.00	2.27	-	-	0.00	2.27	-	-
KI-03	Ricky Kwan/ Prashant MALLA <i>River Engineering Specialist</i>	3.50	3.25	6.75	2.69	2.86	-	-	2.69	2.86	0.81	0.39
KI-04	Herkko Kristian Torssonen <i>Solid Waste Management Specialist</i>	0.50	3.25	3.75	0.00	2.93	-	-	0.00	2.93	0.50	0.32
KI-05	Cliff Massey/Rachel Wildblood <i>Environment Specialist</i>	2.00	3.50	5.50	1.86	2.00	0.10	-	1.96	2.00	0.04	1.50
KI-06	Paul Van Strijp/Teemu Antero Jantuner <i>Social Development and Resettlement Specialist</i>	1.00	9.50	10.50	1.00	6.41	-	0.07	1.00	6.48	-	3.02
KI-07	Kerry Maxwell Blanch <i>Municipal Finance Specialist/Economist</i>		5.65	5.65	0.00	5.65	-	-	0.00	5.65	-	-
KI-08	Eric Baye <i>Private Sector Specialist</i>	0.05	2.48	2.53	0.05	2.48	-	-	0.05	2.48	-	-
KI-09	Claes Clifford <i>Institutional Specialist</i>	0.73	4.58	5.31	0.73	4.58	-	-	0.73	4.58	-	-
	Subtotal Key Expert (International)			77.26	6.83	58.71	0.10	1.05	6.93	59.76	2.35	8.22

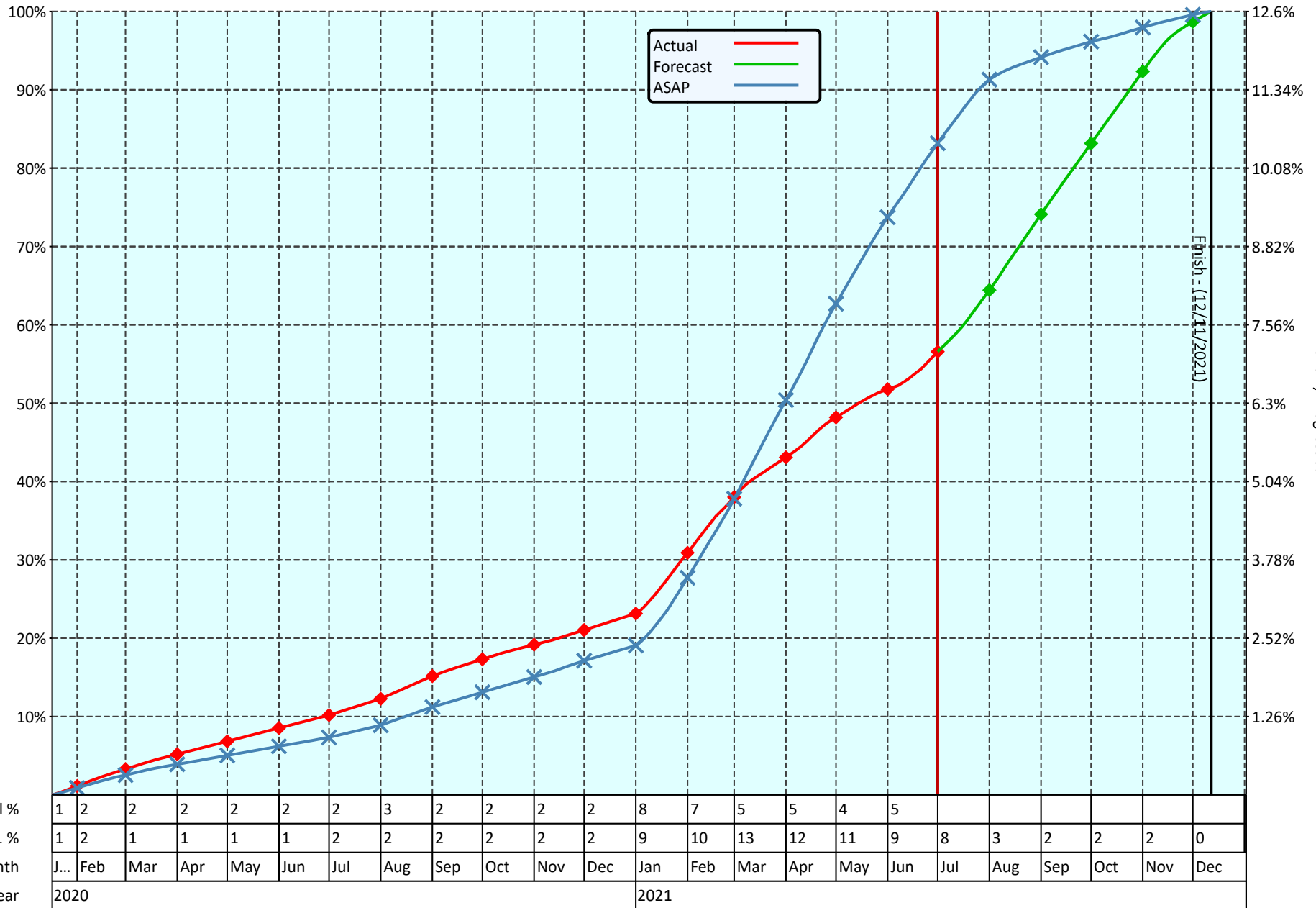
KEY EXPERT (NATIONAL)

No.	Expert / Position	Original Contract + VO 1, 2, 3, 4			Up to Last Quarter		This Quarter		Total		Balance	
		Input (Person-Months)		Total Input	Total Input (Person-Months)		Total Input (Person-Months)		Total Input (Person-Months)		Total Input (Person-Months)	
		Home	Field		Home	Field	Home	Field	Home	Field	Home	Field
Key Expert (National)												
KN-01	Phai Sokheng <i>Deputy Team Leader/Civil Engineer 1</i>	2.11		2.11	2.11		-		2.11		-	
KN-02	Srey Socheat <i>Deputy Team Leader/Civil Engineer 2</i>	63.89		63.89	49.00		3.00		52.00		11.89	
KN-03	Ty Sopheak/Chea Ketia <i>National Geotechnical Engineer</i>	12.00		12.00	12.00		-		12.00		-	
KN-04	Som Kosal <i>Senior Civil Engineer 1</i>	0.00		-	-		-		-		-	
KN-05	Sim Sen <i>Senior Civil Engineer 2</i>	24.00		24.00	24.00		-		24.00		-	
KN-06	Phung Katty/ Mam Sanoun <i>Civil Engineer-River Hydrology</i>	12.00		12.00	12.00		-		12.00		-	
KN-07	Yim Mong Toeun <i>Civil Engineer-Solid Waste Management</i>	10.00		10.00	10.00		-		10.00		-	
KN-08	Chhoeum Ravann/ Meng Nantara <i>Resident Engineer 1</i>	27.00		27.00	12.45		3.00		15.45		11.55	
KN-09	So Saran <i>Resident Engineer 2</i>	0.00		-	-		-		-		-	
KN-10	Chhor Ratha/ Nuon Udom <i>Site Engineer 1</i>	27.00		27.00	11.10		3.00		14.10		12.90	
KN-11	Ro Rosbunnat <i>Site Engineer 2</i>	0.00		-	-		-		-		-	
KN-12	Pong Veasna <i>Site Engineer 3</i>	0.00		-	-		-		-		-	
KN-13	Vuth Ratha <i>Site Engineer 4</i>	27.00		27.00	12.61		2.73		15.34		11.66	
KN-14	Chhay Theara <i>AutoCAD Operator-Solid Waste Management</i>	18.00		18.00	18.00		-		18.00		-	
KN-15	Norm Mara <i>AutoCAD Operator-Drainage and River Bank Protector</i>	0.00		-	-		-		-		-	
KN-16	Pen Tiddara <i>AutoCAD Operator-Flood Control</i>	20.00		20.00	20.00		-		20.00		-	
KN-17	Hep Srey Leak/ Houth Ratanak <i>Gender and Development Specialist</i>	6.00		6.00	3.04		0.39		3.43		2.57	
KN-18	Chap Samoeun/ Seang Bora <i>Resettlement Specialist 1- Pursat</i>	20.00		20.00	20.00		-		20.00		-	
KN-19	Mel Sophanna <i>Resettlement Specialist 2- Kampon Chhnang</i>	0.00		-	-		-		-		-	
KN-20	Chea Mong <i>Environment Specialist</i>	18.00		18.00	10.36		-		10.36		7.64	
KN-21	Ouk Monyroath <i>Financial Management/Accounting Specialist</i>	0.00		-	-		-		-		-	
KN-22	Bun Sangvar <i>Procurement Specialist</i>	0.00		-	-		-		-		-	
KN-23	Chan Vannak <i>Municipal Finance/Tariff/Economic Specialist</i>	20.86		20.86	20.86		-		20.86		-	
KN-24	Houth Ratanak <i>Human Resource/Training Coordinator</i>	5.32		5.32	5.32		-		5.32		-	
KN-25	Khuon Komar <i>National Legal Specialist</i>	1.96		1.96	1.96		-		1.96		-	
KN-26	Unallocated	0.00		-	-		-		-		-	
	Subtotal Key Expert (National)			315.14	244.81		12.12		256.93		58.21	
	Total (International + National)			392.40	251.64	58.71	12.22	1.05	263.86	59.76	60.56	

Annex 7 : S Curves for CW05 and CW06

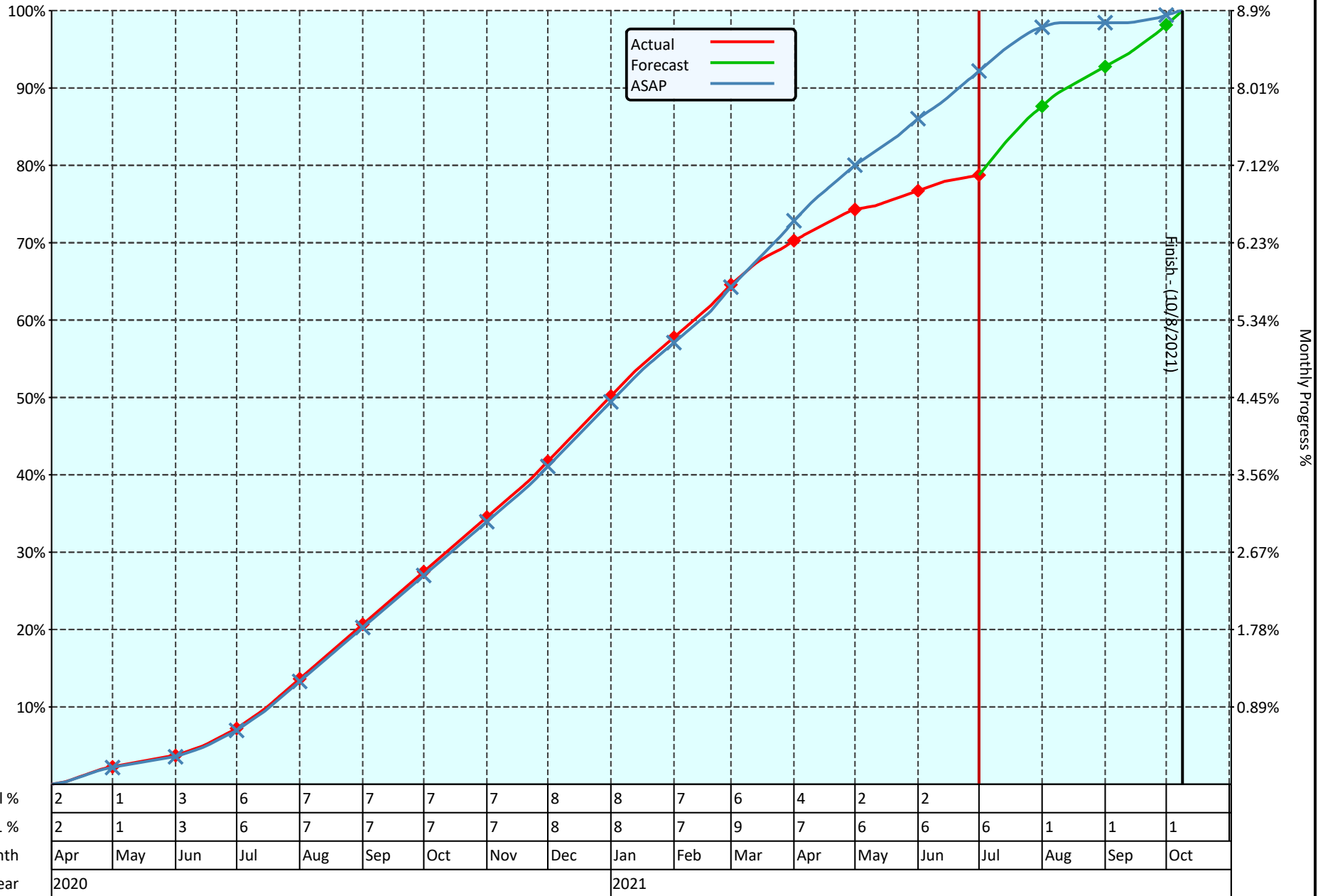
CW-05 Pursat Drainage and WWTP S-Curve June 2021

As of Wednesday, June 30, 2021 progress is 56.58%; 26.6% behind (Planned Percent Complete 83.18%) and 75 Days behind schedule. Projected overall slippage is 0 Days



CW06 Landfill Kampong Chhnang S- Curve June 2021

As of Wednesday, June 30, 2021 progress is 78.74%; 13.45% behind (Planned Percent Complete 92.19%) and 66 Days behind schedule. Projected overall slippage is 0 Days



CW06 Landfill Pursat S- Curve June 2021

As of Wednesday, June 30, 2021 progress is 73.3%; 18.13% behind (Planned Percent Complete 91.44%) and 99 Days behind schedule. Projected overall slippage is 0 Days

