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Ministry of Public Works and Transport



Overview of the completed Pursat landfill site



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.21

01 JANUARY- 31 MARCH, 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 September 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. In its letter dated 14 July, ADB has confirmed the approval on 12 July of the project scope change that provides funding for the Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment (SFPWT) subproject. Under the scope change the loan closing date has been extended from 30 April 2023 to 30 April 2024

1.2 Overall Project Progress

2. Based on the extension of the project closing date from 30 October 2022 to 30 October 2023 and the approval for the implementation of the Kampong Chhnang Sewerage Flood Protection and Wastewater Treatment subproject, the implementation schedule for the project has been amended to reflect the extension of the project period as well as the changed weightage between the project components. The revised schedule is based on the new project closing date of 30 October 2021. Award of the works contract for the Kampong Chhnang SFPWT subproject is delayed because of complication in the preparation of the BER. It is expected that the contract can be awarded during Q2 of 2022. With a contract duration of 24 months as stipulated in the bidding documents, this would take the implementation of the contract beyond the loan closing date. VO5 for the extension of the contract for the consultant services up to the project closing date of October 2023 has been approved. Based on the revised implementation schedule the overall physical progress of the project is 64.8%. The progress of the different project outputs can be summarized as follows:

- Project Readiness/Preparation: 100%
- Output 1: Policy and regulatory environment improved 38.1%
- Output 2: Urban Infrastructure Improved: 67.1%
- Output 3: Institutional effectiveness improved: 52.1%

3. The overall status of the project and the compliance with the CAD plans can be summarized as follows

Contract	\$ 47.17	Elapsed Time	79.31%
Contract Award	\$ 21.87	Physical Progress	64.80%
Disbursement.	\$ 17.22	CA - Lag	36.23%
Contract Award %	46.37%	Disbursement. - Lag	42.82%
Disbursement %.	36.49%	Project - Lag	14.51%

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	The DED has been completed and has been approved by ADB	
	IEE/EMP	The IEE and EMP have been approved by ADB	
	IESIA	IESIA has been approved by the MOE on 28 September 2021	
	BRP and DRP	Has been approved by ADB, ADB has issued the NOL as required by GDR. The draft DRP has been submitted to ADB	

	Tender & Contract award	Bid were received on 21 October 2021 and the bid evaluation is ongoing. As lowest and third lowest bids were found to be unbalanced, Additional clarifications on selected work items were requested from the 3 lowest bidders and have been checked for deviations and omissions. The review has been completed and the BER is being finalized
	Construction	To be started
CW06 Lot 1, Kampong Chhnang Landfill	Construction Landfill	Progress 95%. Under VO2 the contract has been extended till 28 February 2022, All the works under the original contract and VO1 have been completed and the works under VO2 are ongoing
	Contract status	VO1 and VO2 have been approved
	Basic site development	Soil filling and cut/fill balancing has been completed
	Landfill Cells and Leachate treatment	Completed
	Boundary, internal roads, drainage	Completed
	Admin Building and Facilities	Completed
	Tree plantation, green areas, site finishing works	Ongoing
	VO2	All major works have been completed,
Pursat Urban Environmental Improvements		
CW05 Improvement in Drainage in Pursat Town and Waste Water Treatment	WWTP	Progress 95% The overall progress includes the additional works proposed under VO3 and the proposed contract extension till 31 March 2022
	Overflow, Primary treatment, Anaerobic tank & filter, Chlorination Chamber	Structural works are completed. Pump installation and other electro mechanical works to be started
	Reed Beds	Construction has been completed, installation of the gravel filter layer and reed planting is 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). Improvement of the outlet of the canal to the natural drain has been completed, (construction of 2 culverts bypassing an existing road culvert and escape gate with high invert levels
	Installation of New Combined Drainage Sewerage lines	Progress 90%

	Installation of pipe lines	The installation 23.7 km pipe lines has been completed including manholes and lateral connection with the existing drainage lines
	Cleaning of existing drainage lines	Out of a total of 22.6 km existing drainage lines, 15.4 km of pipelines including manholes have been cleaning using jetvac equipment
	Reinstatement/upgrading of Pavement	17 km out of a total of 19.7 km for pavement reinstatement and upgrading has been completed
	VO3	VO3 has been approved and includes additional quantities for new DBST pavement and reinstatement of existing DBST pavement
	VO4	VO4 has been approved and includes the upgrading of DBST pavement to concrete pavement in the market area and additional quantities for reinstatement of existing concrete pavement that was installed by communes after the preparation of the DED
	VO5	VO5 has been submitted for approval. The VO includes the increased requirement for subbase and base course in pavement reinstatement because of the poor quality of the existing road foundation layers.
CW06 Lot 2 Pursat Landfill	Construction Landfill	Progress 91%
	Access Road	Completed
	Basic site development	Soil filling has been completed
	Landfill Cells and Leachate treatment	Completed
	Constructed wetland	Completed
	Boundary, internal roads, drainage	Completed
	Admin Building and Facilities	Completed
	Tree plantation, green areas, site finishing works	Completed
	VO2	Installation of a weighbridge and basic facilities for waste pickers has been completed
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	Provision for survey, investigations and detailed design for dumpsite remediation have been included in the VO5 for the PMIS contract. The surveys and investigations will be carried out during Q4, during Q3 the site is flooded or waterlogged
	Implementation	Modality for undertaking the works to be decided
Safeguards		
Environment		
	Preparation of safeguard documentation	The IEE for the project has been updated by including the Kampong Chnang SFPWT subproject.
	SEMRs	The SEMR 2 -2021 has been submitted and comments from ADB have been addressed. The document will be resubmitted during the first week of April

	Safeguards		The IEE was updated for the VOs for both landfills and the VO for Pursat WWTP additional work and Kaoh village. The EMPs for both CW06 VO 1 and CW06, VO1 and VO2
Resettlement			
	Monitoring Reports		The SSMR 2- 2021 could not be completed because the report by GDR/DIMDM is delayed
	Safeguards		The draft DRP for the Kampong Chhnang SFPWT has been submitted A DDR for VO3 and VO4 of the CW05 contract has been prepared. The DDR includes unforeseen minor impact from the construction of line 7 (parallel to the old irrigation canal)
Gender Plan	Action	Monitoring	The GAP has been updated
		Implementation	Because of the COVID restrictions it has not yet been possible to undertake the planned training activities under the GAP
Community Managed Environmental Improvements			
Improvement of sanitation Pursat	of in	Toul Mkak and Kaoh villages	A works contract for the installation of 81 pit latrines in the Toul Mkak village and 26 latrines in the Kaoh village has been completed Distribution of complementary sanitation equipment for household support is now severely delayed. This package also includes improvement of 47 existing latrines.
		Kaoh Village, River Embankment (CW05 VO2)	The rehabilitation of the existing river embankment and embankment road which was breached at several places during the October 2020 has been completed
		Scope of the NGO support under the PADEK contract VO	The procurement rules agreed for this project do not allow effective community management of environmental improvements. This is inconsistent with the main objective of the NGO intervention which community mobilization and support community managed implementation. Therefore, it is proposed to refocus the NGO involvement on those activities in which community mobilization is possible. which are community consultations, awareness creation and training. The following main activities are proposed: <ul style="list-style-type: none"> • Completing the sanitation survey of the houses along the irrigation canal in Pursat and assess the viability with possible solutions for connecting the houses with the new combined drainage/sewer lines. • Assessment of the options for community participation in solid waste collection in areas not served by direct solid waste collection services. • Sanitation inventory in the proposed service area for the sewerage system in Kampong Chhnang.

1.3 Consultant Services

4. The elapsed time of the consultant contract is 77.5% considering the proposal to extend the contract under the the project scope change till 31 October 2023. The total specialist input used up to 31 March 2022 considering the additional inputs under VO5 the 90.5% for international specialists and 80% for local specialists. VO5 for the extension of the PMIS consultant services up to the end of October 2023 has been approved. The VO provides

additional inputs for the construction supervision of CW10 together with the required safeguard monitoring, has been submitted for review and approval by PMU, MEF and ADB. The cost of the proposed contract extension is USD 663,716.30.

Specialists	Total p/m	p/m used	Balance	Percentage P/M used
International	91.3	76.1	15.2	83.3%
National	399.8	296.0	103.8	74.0%
Total	491.1	372.1	119.0	75.8%

1.4 Targets for the next quarter

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

- Responding to any question of the BER for CW10 and hopefully be able to get ADB approval for award of the contract. This would also require the approval of the DRP which has now been finalized
- CW05, Completion of all construction works final inspection, commissioning of the works and hand over. In view of the frequent high water levels in the irrigation canal at the outfall of the WWTP and drainage system, the inflow into the WWTP will have to be carefully controlled and gate setting calibrated. Water levels at the outfall will have to be systematically recorded.
- CW06, final inspection of the Kampong Chhnang landfill and commissioning and hand over of the Kampong Chhnang and Pursat landfill
- Procurement of SWM equipment for the 2 landfills and solid waste collection
- Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions
- Final design for sanitation improvements in the Kbal Hong village and proposals for sanitation improvements for ID poor in Kampong Chhnang
- Construction supervision of remaining works and corrective works as instructed during the final inspection will be continued. During the start up of the facilities O&M support will be provided

2 PROJECT BACKGROUND

2.1 Background

6. 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. Under the project scope change it is envisaged that the following 3 outputs will be achieved:

- (i) Output 1: Policy and regulatory environment improved, which will include proposals for improvement of building codes and recommendations on wastewater standards
- (ii) Output 2: Urban infrastructure improved. This will include;
 - the construction of a WWTP in Kampong Chhnang with a treatment capacity of 5.2 mld and a WWTP in Pursat with a treatment capacity of 2.1 mld. Both WWTP will use a combination of mechanical treatment with biological treatment using a reed bed filter
 - construction of 2 controlled landfills in Kampong Chhnang and Pursat including the provision of equipment for landfill operations, and solid waste collection. The landfills will have an air volume of m³ and consist of 2 waste cells with asphalt lining, leachate collection and primary treatment ponds and wetlands for secondary treatment. The Kampong Chhnang landfill also includes a retention pond for rainwater runoff from the hillslope above the landfill site
 - Pursat, the improvement of the combined storm water drainage/sewerage system in the town area on the west bank of the Pursat river. The works include the installation of 23.7 km of new drainage lines, cleaning of 22.km of existing drainage lines, contraction and repair of manholes, interconnections between the existing drainage lines and the new drainage lines, upgrading laterite pavement to DBST, improving existing DBST pavement, upgrading the DBST pavement in the town center market/commercial area to concrete pavement and improving/extension of road curbs and gutters
 - Kampong Chhnang, the construction of a new sewerage system for the urban center with 16.4 of main sewer lines and 25 km of lateral lines, (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, upgrading of laterite pavement to DBST or concrete pavement
- (iii) Output 3: Institutional effectiveness improved, which comprises the overall project management and implementation support. sanitation and waste management units established, prepare, approve, establish, and strengthen USU institutions, capacity development program adopted for sanitation and solid waste management units

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	64.8%		
Elapsed Period	79.3%	Revised Loan Closing Date	30 April 2024	Revised Project Completion date	31 October 2023
Progress on Contract Award and Disbursement	Contract Award	46.4%	Disbursement	36.5%	
Project Executive Agency	Ministry of Public Works and Transport (MPWT)				
Project Director	H.E. Vong Pisith, Under Secretary 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. 21
Reporting Period	01 January to 31 March 2021
Author(s) & project role	Louis Rijk Team Leader/Municipal Engineer PIMS,

2.4 ADB Review Missions

7. 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 the ADB implementation review mission in September 2021 was a virtual mission.

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				

S. No.	Nature of Mission	Duration	Name and Designation of Participants from ADB	Total Nos. of Participants from ADB
1	Portfolio Review Mission	4 April 2018	Vijay Padmanabhan Director Urban Development and Water Southeast Asia Department. Sameer A. Kamal, Urban Development Specialist.	2
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)	
2021				
1	Virtual Implementation Review Mission	28 September to 1 October 2021	Alexander Nash, Team Leader, Virginia Villanueva, Associate Project Officer, Rangina Nazrieva, Safeguards Specialist (Resettlement), Marla McCarroll Pinto Rodrigues, Safeguards Specialist (Environment), Pisey Chea, Gender Consultant (CARM), Javier Coloma Brotons,, Urban Development Specialist	

2.5 Time bound action plan agreed during the ADB review meeting in September 2021

8. The following table presents the timebound action plan agreed during the virtual ADB implementation review meeting from 28 September to 1 October 2021 and includes the current status of the actions required

Table 2-1 Time bound action plan

No.	Actions Required	Target Date	Responsible Agency	Current Status
1 CS01 - PMIS contract				
1.1	Agree VO5 to include construction supervision for CW10	15-Oct-21	PMIS/MPWT / MEF	VO5 approved
2 CW-06: Kampong Chhnang and Pursat Landfill sites				
2.1	Remediation requirements assessment for Pursat, including Environmental Compliance Audit (ECA) information for dumpsite closure and remediation works.	31-Dec-21	PMIS	The surveys and investigations will now be done in Q4 2022. At present access to the site is difficult because of flooding and waterlogging
2.2	ADB to share information on the environmental impact assessments and ECA work conducted as part of the dumpsite closure and remediation works in the CAM GMS4 project in 2021	29-Sep-21	ADB	Completed
2.3	Submission of VO 2 with associated safeguards diligence documentation			VO2 has been approved
3 CW-09 & CS04 Kampong Chhnang and Pursat Community Driven Improvements & NGO support				
3.1	Proposed remaining investment program submitted	15-Oct-21	PADEK	
3.2	CS04-VO4 prepared	29-Sep-21	PADEK	Completed
3.3	CS04-VO4 signed / NoL	15-Oct-21	ADB / MPWT	
3.4	Remaining works program components advertised	30-Oct-21	PADEK	
4 CW-05 Pursat Drainage				
4.1	Resettlement DDR submissions for VO1 and VO2	15-Oct-21	PMIS / MPWT	DDRs for VO1, VO2, VO3 and VO4 have been approved
4.2	Corrective Action Plan/Report by EMO			
4.3	Undertake corrective actions to complete compensation payments			
5 CW-10 Kampong Chhnang				
5.1	Secure approval of the IEIA for package CW10 and submit official documentation to ADB	15-Oct-21	MPWT	IESIA has been approved by the MOE
5.2	Complete DMS	30-Oct-21	GDR	Draft DRP has been prepared
5.3	DRP submitted to ADB for clearance and disclosure	30-Nov-21	GDR	Final draft DDR will be submitted in April

No.	Actions Required	Target Date	Responsible Agency	Current Status
5.4	BER submitted to ADB	30-Oct-21	MPWT / MEF	Bid evaluation has not yet been finalized will be submitted in May 2022
6	Safeguards			
6.1	SEMR January-June 2021. Submission to ADB for review, including the time bound corrective action plans for the contractors.	15-Oct-21	PMIS / MPWT	SEMR for January-June has been approved
6.2	Submission of EMO Report to ADB	15-Oct-21	GDR	
6.3	Submission of the revised consolidated report (Dec 2019 - June 2021) by DIMDM	15-Oct-21	GDR	
6.4	Submission of the SSMR for July-December 2021	31-Jan-22	GDR	Not yet submitted as the report from GDR/DIMDM has not yet been received
7	Covenants			
7.1	Establishment of institutions to operate assets: preparation work	30-Oct-21	ADB / PMIS	No firm decision has been made
7.2	Meetings with Pursat and Kampong Chhnang Provincial Authorities	01-Dec-21	MPWT / MEF	Meetings have no yet taken place
7.3	Decision on operating entities formally issued	31-Dec-21	Provincial Authorities	No firm decisions on operating entities have been formally issued
7.4	Clarification on Sched 5-2 and 5-7	15-Oct-21	ADB / PMIS	
7.5	Operating entities commence training with contractors	31-Jan-22	Provincial Authorities	Not yet started
7.6	MEF grants NoL to Billing Support TA	31-Dec-21	MEF	TA for billing services to be mobilized in Q2
7.7	ADB advertises for consulting package under Billing Support TA	15-Jan-22	ADB	No data

2.6 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

Table 2-2 : Project Monitoring Sheet

Basis Data	Major Issues	Status and Proposed Actions	Target Date														
<p>Loan: L3311-CAM Loan: L8295-CAM Grant:G0454-CAM</p> <p>Integrated Urban Environmental Management in the Tonle Sap Basin Project</p> <p>Project Rating: Actual problem</p> <table border="0"> <tr> <td>EA/IA: MPWT</td> <td></td> </tr> <tr> <td>Loan 3311</td> <td>36.6M</td> </tr> <tr> <td>Loan 8295</td> <td>5M</td> </tr> <tr> <td>Grant 0454</td> <td>5M</td> </tr> <tr> <td>Government</td> <td>0.6M</td> </tr> <tr> <td>Contributions</td> <td>0.0M</td> </tr> <tr> <td>Total</td> <td>47.2M</td> </tr> </table> <p>Approved: 10 Nov-15 Effect: 2-Mar-16 Closing (O): 30-Apr-22 Closing (R) : 30 Apr 23 Elapsed time: 79.3% Physical progress: 64.8%</p> <p>No. of extension: 1 Cumulative Extensions: 1 yrs No. of cancellation: 0 Total cancellation: \$0m</p>	EA/IA: MPWT		Loan 3311	36.6M	Loan 8295	5M	Grant 0454	5M	Government	0.6M	Contributions	0.0M	Total	47.2M	<p>1. General</p> <p>The overall progress of the project is 60.1%, the progress is based on the revised project outputs under the project scope change. The project closing date has been extended to 30 October 2023</p> <p>1. Technical</p> <p>A Kampong Chhang</p> <p>CW04-Kampong Chnnang (\$19m) letter from MEF received on 8 Feb 2019 requesting for the cancellation of Kampong Chnnang embankment project. Scope change is required and funds to be reallocated for the construction of a new sewerage system, WWTP and selective improvement of the existing drainage system for Kampong Chnnang.</p>	<p>The MEF has requested ADB to extend the loan closing date from 30 April 2022 to 30 April 2023. ADB approval for the extension of the loan closing data and the project scope change received on 14 July 2021</p> <p>In its letter dated 12 July 2021, ADB has confirmed the approval of the project scope change on 12 July 2021</p> <ul style="list-style-type: none"> A new sewerage system covering a priority area of 247 ha in the town center that will comprise of (i) raising 6.4 ha by soil filling from the present levels of 4 to 5 m to a level of 13 m (ii) a WWTP with a capacity for treatment of 5.4 m³/d; (iii) 16.4 km main sewer lines; (iv) 24.9 km of main collector/rider lines with a diameter of 200 mm, 1,800 house/building connection chambers and 479 RCC manholes installed. Selective improvements and extension of the existing drainage 	<p>Design completed and approved by ADB</p>
EA/IA: MPWT																	
Loan 3311	36.6M																
Loan 8295	5M																
Grant 0454	5M																
Government	0.6M																
Contributions	0.0M																
Total	47.2M																

<p><u>Project to Date (PTD)</u></p> <p>Projection up to 31/12/2021</p> <table border="0"> <tr> <td>Contract</td> <td>\$47.2 (base costs)</td> </tr> <tr> <td>Contract Award</td> <td>\$21.9</td> </tr> <tr> <td>Disbursement.</td> <td>\$17.2</td> </tr> <tr> <td>CA %</td> <td>46.4%</td> </tr> <tr> <td>Disb %</td> <td>36.5%</td> </tr> </table> <p>Critical:</p> <p>Delay in the award of CW10 for the kampong Chhnang SFPWT</p>	Contract	\$47.2 (base costs)	Contract Award	\$21.9	Disbursement.	\$17.2	CA %	46.4%	Disb %	36.5%	<p>CW10 Preparation of DED and bidding documents have been completed and approved by ADB in August. IFB was published on 1st September, and bid opening was done on 21 October. Contract award was scheduled by the end of December but the BER has not been finalized and contract award is now expected by March 2022.</p> <p>CW06 Lot 1 VO1 (extension of the fence around the portion of the landfill area, construction of an additional cell) and VO2 (constructed wetland and a balancing reservoir to store rainwater runoff from the hill above the landfill, a weighbridge and waste picker facilities)</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. VO1 (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, additional improvements of the embankment on both sides of the irrigation canal, including DBST pavement of the left bank embankment road), VO2 (repair of the Pursat river embankment at the Kaoh village), VO3 (increasing the quantities for DBST pavement) and VO4 (upgrading of DBST pavement to concrete in the market area and road curb and gutter improvement)</p> <p>VO5 is required for the increased quantities for aggregate base course material in the reinstatement of the DBST</p>	<p>system that includes; (i) installation of 19 km of drainage lines and; (ii) pavement for 9.5 km unpaved road sections in the urban area</p> <p>Contract award of CW10 is delayed. Assuming that the contract can be awarded before the end of Q2, and considering the contract duration of 24 months the contract will now end after both closing date of 30 October 2023 and the loan closing date of 31 March 2024.</p> <p>VO1 and VO2 have been approved, works have been substantially completed, finishing works and landscaping is ongoing.</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>ADB has issued the NOL for VO1, VO2, VO3 and VO4. Works under the original contract and VO1 and VO2 have been completed, and work under VO3 and VO4 have been substantially completed</p> <p>The DDRs for VO3 and VO4 have been approved</p>	<p>Advise of ADB need to be sought on the expected duration of the CW10 contract beyond the loan closing date</p> <p>The contract has been extended to 30 April 2022</p> <p>If required the consultant can provide guidance for the proper closure of the dumpsite</p> <p>Works are ongoing.</p>
Contract	\$47.2 (base costs)												
Contract Award	\$21.9												
Disbursement.	\$17.2												
CA %	46.4%												
Disb %	36.5%												

	<p>pavement in the town area on roads in which the new drainage lines have been installed, this because the poor quality of the existing subgrade</p> <p>CW06 Pursat Landfill VO1. (construction of an additional I cell, and a constructed wetland).VO2 a weighbridge and waste picker facilities.</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>VO5 has been submitted for approval</p> <p>The ADB has issued the NOL for VO1 and VO2 and the works have been completed</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>The contract has been extended to 30 June 2022</p> <p>A final inspection of the completed works was done at the end of March</p> <p>Surveys and investigations will be done in Q4. At present the site is flooded</p>
	<p>2. Contract Awards & Procurement</p> <p>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 and VO2 additional works for lots 1 and 2 (see above), and time extension till 31 march 2022</p>	<p>Contract has been awarded and ADB has issued NOLs for VO1, VO2.</p> <p>VO3 and VO4 for additional quantities for reinstatement of DBST and concrete pavement have been finalized</p> <p>Contract has been awarded and ADB has issued the NOL for VO1.</p> <p>VO2 for a constructed wet land and stabilization pond in the Kampong Chhnang landfill and weighbridges in the two landfills have been finalized</p>	<p>ADB has issued a conditional NOL NOL</p> <p>ADB has issued the NOL</p>
	<p>3. Disbursement</p> <p>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>Contract is expected to be awarded by by the end of Q2 2022</p>
	<p>4. Safeguards</p>		

	<p>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>Safeguard documentation for CW10 Kampong Chhnang sewerage, drainage and WWTP</p> <ul style="list-style-type: none"> • IEE/EMP • BRP • IESIA • DRP 	<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 second semiannual social and environmental safeguard reports for the period from July to December 2021 are being finalized by the consultant</p> <p>Submissions and approvals 8.5</p> <ul style="list-style-type: none"> • Has been approved by ADB • Has been approved by ADB • Has been approved by MOE • DRP is being finalized 	<p>No target date available</p> <p>Will be submitted through PMU to ADB by the middle of January 2022</p> <p>Final draft to be submitted in April</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> PMIS consultant services to be extended up to the project closing date.</p> <p>The establishment of Urban Services Units (USU) are a loan covenant requirement for hand over of the completed kampong Chhnang and Pursat landfills</p>	<p>VO5 for the extension of the PMIS consultant services up to 20 October 2023 has been approved.</p> <p>Support for financial management and billing to be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) for preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region</p>	<p>Completed</p> <p>Will be mobilized in Q2</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. And on 12 July 2021 ADB approved a major scope change for the project Financing for the \$53.4 million project includes a USD equivalent 26,4M 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

Source	Amount (\$ million)	Share of Total (%)
Asian Development Bank ADF Loan	37.9 ^b	70.8
ADB Strategic Climate Fund loan ^a	5.0	9.4
ADB Strategic Climate Fund grant ^a	5.0	9.4
Royal Government of Cambodia	5.4	10.0
Community	0.2	0.4
Total	53.4	100.0

ADB = Asian Development Bank, ADF = Asian Development Fund.

^a Under the Pilot Program for Climate Resilience financed by the Strategic Climate Fund. Administered by the Asian Development Bank.

^b Increase from \$37m to \$37.9m due to changes in the SDR:USD exchange rate. \$37.9m uses the SDR exchange rate in 29 April 2021 of 1.4346090833 (when all the financial tables were updated and calculated). This does not represent additional financing. Source: Asian Development Bank estimates.

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 : Detailed Cost Estimates by Expenditure Category (\$ million)

Item	(US\$ Million)				Total
	Foreign	Local		Sub-total	
		Non-tax	Taxes		
A. Investment Costs					
1 Civil Works					
b. Kampong Chhnang Solid Waste Management	0.08	0.76	0.08	0.84	0.93
d. Pursat Drainage	0.98	8.85	0.98	9.83	10.82
e. Pursat Solid Waste Management	0.14	1.23	0.14	1.37	1.51
h. Works - Sewer and Flood Protection	4.17	16.68	2.08	18.76	22.93
i. Works - Community Sanitation Works	0.26	2.35	0.26	2.61	2.88
Subtotal	5.64	29.87	3.55	33.42	39.06
2 Equipment					
a. Solid Waste Management	1.92	0.06	0.20	0.25	2.17
3 Workshops					
a. Workshops	0.02	0.07	0.01	0.07	0.09
4 Consulting Services					
a. Project Management and Implementation Support	1.45	1.68	0.31	1.99	3.44
c. Surveys and Investigations	0.61	0.61	0.12	0.73	1.34
d. Climate Change Adaptation in Urban Development	0.23	0.06	0.03	0.09	0.32
e. NGO Support to Community-led Environmental Improvements	0.42	0.85	0.13	0.98	1.39
Subtotal	2.71	3.19	0.59	3.78	6.49
5 Incremental Administration					
a. Office and Travel Expenses	-	0.19	0.02	0.21	0.21
b. Vehicles	0.15	0.03	0.02	0.05	0.19
c. Equipment	0.01	0.16	0.02	0.18	0.19
d. Salaries	-	0.55	0.05	0.60	0.60
Subtotal	0.16	0.93	0.11	1.03	1.19
6 Resettlement Support					
a. Resettlement Support	-	0.19	0.02	0.21	0.21
Total Base Cost (A) a/	10.43	34.30	4.47	38.77	49.20

B. Contingencies b/	
1 Physical	2.35
2 Price	0.76
Subtotal (B)	3.11
C. Financing Charges During Implementation c/	
1 Interest During Implementation	1.12
Total Project Cost (A+B+C)	53.43

a/ In April 2021 prices. Includes taxes and duties of \$4.47 million which will be financed by the Government through exemptions, ADB loan financing of taxes and duties for incremental administration (office and travel expenses and office equipment) and workshops costs; ADB SCF grant financing of

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 3-2: Consolidated Status of Loan and Grant Proceeds

Loan/Grant No.	US Dollars					
	Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
	A	B	C = A - B	D	E = A - D	F = B - D
Loan 3311	36,903,144	16,924,292	19,978,852	9,787,699	27,115,445	7,136,594
Loan 8295	5,000,000	-	5,000,000	-	5,000,000	-
Grant 0454	5,000,000	4,287,678	712,322	4,212,969	787,031	74,709
Government	602,736	147,264	147,264	147,264	455,472	-
Total	47,505,880	21,359,234	25,838,437	14,147,932	33,357,948	7,211,302

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

Elapsed Time	79.31%
Physical Progress	64.84%
Contract Award Lag	32.95%
Disbursement Lag	42.82%
Project - Lag	14.48%

Table 3-3: Grant Utilization (Grant 0454)

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	-	-	-	-	-	-
01C	CW - PS Sanitation Improvement	-	169,669	(169,669)	78,532	(78,532)	91,136
02A	WS - NGO SCEI	770,000	-	770,000	-	770,000	-
02B	WS - CCAUD	290,794	290,794	-	290,496	298	298
03A	CS - CCAUD	1,267,214	1,267,214	-	1,089,942	177,273	177,273
03B	CS - NGO SCEI	100,001	100,001	-	100,000	1	1
03C	CS - Survey and Investigation	-	-	-	-	-	-
04	Unallocated	1	1	-	-	1	1
	Advance Account	111,990		111,990	194,000	(82,010)	(194,000)
	Total	5,000,000	4,287,678	600,331	4,212,969	787,031	74,709

Table 3-4: Consolidated Loan Utilization (Loan 3311)

		As of 31 Dec 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	-	-	-	-	-	-
01B	CW - KC Solid Waste Mgt.	832,016.75	954,817	(122,800)	717,322	114,695	237,495
01C	CW - Pursat Flood Protection	-	-	-	-	-	-
01D	CW - Pursat Drainage	7,201,847.77	9,718,947	(2,517,099)	3,521,817	3,680,031	6,197,130
01E	CW - PS Solid Waste Mgt	1,345,809.84	1,595,132	(249,322)	1,092,937	252,873	502,195
01F	CW - KC Small-scale Inf. Dev.	-	-	-	-	-	-
01G	CW - PS Small-scale Inf. Dev.	-	-	-	-	-	-
01H	CW_KC Swer and flood projection	15,466,769.27	-	15,466,769	-	15,466,769	-
01I	CW_ Community Sanitation	1,439,086.27	-	1,439,086	-	1,439,086	-
02A	GD - KC Solid Waste Management	-	-	-	-	-	-
02B	GD - PS Solid Waste Management	-	-	-	-	-	-
02C	GD - KC Embank. Manual Equipment	-	-	-	-	-	-
02D	GD - KG Flood Manual Equipment	-	-	-	-	-	-
02E	GD - PS Embank. Manual Equipment	-	-	-	-	-	-
02I	Equipment	1,923,849.53	-	1,923,850	-	1,923,850	-
03A	WS - Project Mgt & Implement Supp.	87,152.20	82,035	5,117	20,000	67,152	62,035
03B	WS - SSCD	-	-	-	-	-	-
04A	CS - PM & IS	3,012,154.08	3,101,238	(89,084)	2,602,174	409,980	499,064
04B	CS - SSCD	-	-	-	-	-	-
04C	CS - Survey & Investigations	1,082,560.61	1,115,144	(32,583)	907,523	175,038	207,621
05A	IA - Office and Travel Expense	200,884.99	168,526	32,359	168,526	32,359	0
05B	IA - Vehicles	165,825.72	134,500	31,326	134,500	31,326	-
05C	IA - Equipment	183,577.48	53,953	129,624	41,018	142,559	12,935
06	Interest During Implementation	1,081,113.44	-	1,081,113	145,881	935,233	(145,881)
07	Unallocatd	2,877,457.65	-	2,877,458	-	2,877,458	-
	Advance Account	3,038.17	-	3,038	436,000	(432,962)	(436,000)
	Total	36,903,143.77	16,924,292	19,978,852	9,787,699	27,115,445	7,136,594

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

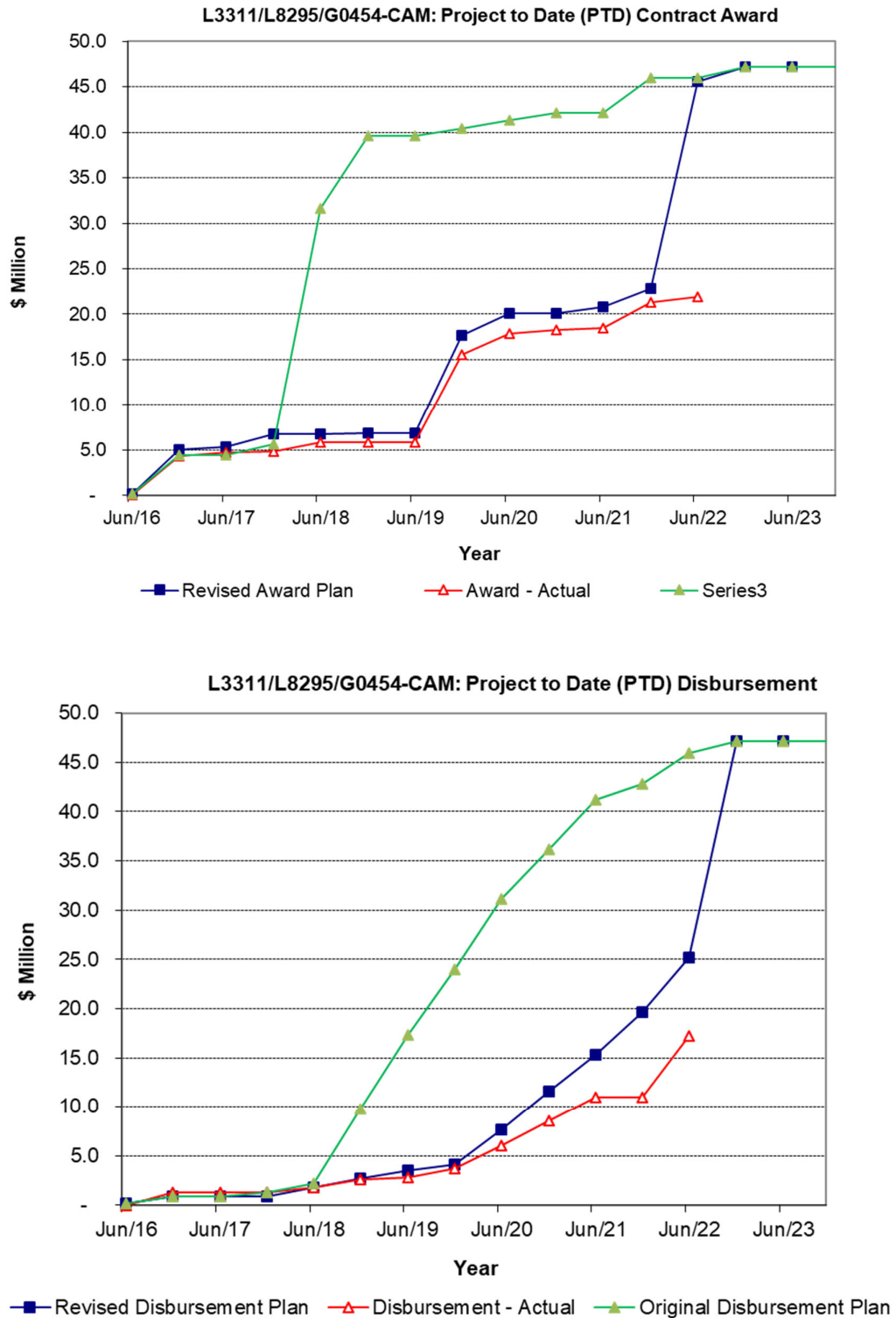
		As of 31 Dec 2021					
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
1	CW - KC Flood Protection	4,982,000	-	4,982,000	-	4,982,000	-
2	Service 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 3 September 2021. The table reflects the planning as presented in the revised implementation schedule presented in chapter 4 and Annex 1. The figures in green colour represent historic data of completed procurement

Table 3-5: 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
CW05	VO4		Q3 2021	Q4.2021
CW05	VO5		Q1 2022	Q1.2022
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	Q1-2022
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

14. The overview of the status of the principal contract packages for the implementation of the project is presented in table 3-6

¹ Based on present design, not assuming design changes

Table 3-6: Overview Contract Packages

Package Name	Financing			Variation Order						
	L-3311	G-0454	L-8295	No	Date	L-3311	G-0454	% of Award	Scope	Status
CS01 - Project Management Implementation Support Consultant (KECC/KCC)	4,106,913.00	100,000.00		VO1	14-Jun-17	-		0.0%	Budget realignment to carry out additional topo and geotech surveys	Approved
				VO2	6-Sep-18	-		0.0%	Contingency utilized; include IEIA under scope of work	Approved
				VO3	31-Dec-18	-		0.0%	Budget realignment and utilization of contingencies; Preparation of sewerage and drainage masterplans, and road maps for USUs and SWTUs; removal of financial and procurement tasks	Approved
				VO4	10-Mar-20	-		0.0%	Advance actions on CW10 design, remove construction supervision CW04, institutional components, BRP, IEA and GAP preparation	Approved
				VO5	21-Oct-22	602,403		14.7%	Construction Supervision CW10	Draft
CS04 - CMEI NGO (P		829,878		VO1	15-Jul-19		-	0.0%	Use of contingencies for more staff time and additional funds for IEC	Approved
				VO2	16-Mar-20		437,336	53%	Revised scope in KC for septage management; alternative solutions (i.e. lateral connections) to be implemented in Pursat inc community based clean up of the canal; development of SWM system; additional pm inputs	Approved
				VO3	1-Mar-21		-	0.0%	design of new sanitation solutions, equipment support to poor and vulnerable communities, support to informal sanitation and waste collection workers, changes in personnel schedule	Approved
				VO4	30-Sep-21		195,972	23.6%	Major scope change impact plus expansion of pre-identified areas	Draft
CW05 - Pursat Drainage	7,374,117	2,460,000		VO1	29-Jan-21	-		0.0%	Use of contingencies; additional works due to flooding in the project site	Approved
				VO2	19-Apr-21	-		0.0%	Use of contingencies; Repair of river embankment in Kaoh village due to damage caused by floods	Approved
				VO3	27-Oct-21	1,114,949		11.3%	New BDST Pavement and Pavement Reinstatement	Conditional Approval
				VO4	8-Nov-21	1,229,881		12.5%	Upgrading BDST pavement to Concrete and Concrete Pavement Reinstatement	Conditional Approval
CW06 - Kampong Chhnang and Pursat landfills	2,212,729.57			VO5					Increase in quantities for subgrade and basecourse reinstatement and pumping station for drainage outfall	Under preparation
				VO1-Lot 1	30-Jul-21	110,534		5%	Design changes and additional cells for each landfill	Approved
				VO1-Lot 2	30-Jul-21	226,685		10%	Design changes and additional cells for each landfill	Approved
				VO2-Lot 1	28-Oct-21	448,607		20%	Constructed wetland, stormwater storage, weighbridge, wastepicker facilities	Approved
				VO2-Lot 2	28-Oct-21	81,566		4%	Weighbridge, waste picker facilities	Approved
CW10 - K. Chh WWTP etc.	18,593,685	4,991,296							BER under preparation	
CW09a		101,121								
CW09b		68,547								
CW09 - rest		516,350								Not designed yet

4 IMPLEMENTATION PROGRESS

4.1 Status of Project Implementation and Revised Project Implementation Schedule

15. Overall implementation progress is estimated at 64.8% compared to the elapsed implementation period of 79.3%. Cumulative contract awards achieved is \$ 21.9 million (46.4% of the total project budget), and disbursements achieved is 17.2 million (36.5 % 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. Subsidiary slippage is caused by the delay in the award of the CW10 contract due to complication in the preparation of the BER for the award of the CW10 contract. The effect of the delay in the contract award for CW10 on the overall project implementation is reflected in the S Curve for the project implementation presented in fig 4-1. With the substantial completion of the CW05 and CW06 contracts there is a notable slowdown in the overall progress of project implementation

16. The project closing date has been extended from 31 October 2022 to 31 October 2023. The revised project implementation plan is presented in figure 4-1 and the detailed revised work plan is presented in annex 1. Revised Implementation Schedule. The S-curve for the project is presented in Annex 7. However, because of the delay in the award of the CW10 contract, with a contract period of 24 month, which is now expected by the end of Q2 2022, it will not be possible to complete the contract before the loan closing date of 31 March 2024.

Figure 4-1: S Curve of project implementation

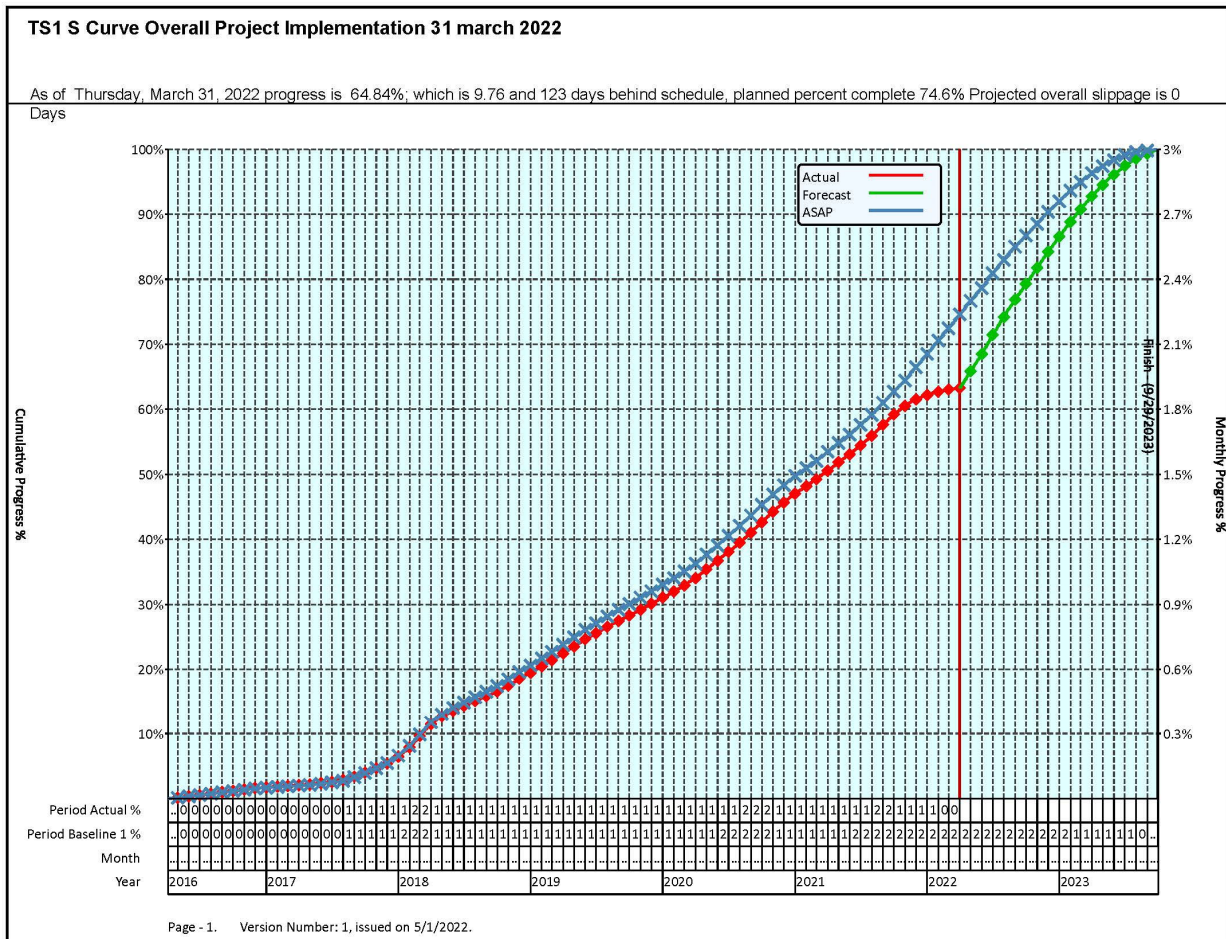


Table 4-1 Summary of the status of the ongoing works contracts

	Contract Amount	Advance Payment	IPC		Total	Physical Progress			Remarks
			Previous	This Quarter		Target	Actual	+/-	
CW05. Contract Name: Construction of Pursat Drainage, Contract Date:31 December 2019									
	9,834,116.59	1,475,117.49	4,507,275.74	2,705,172.78	7,212,448.52	98.0%	92.0%	-6.0%	Including additional works under VO3 & VO4
CW06. Contract Name: Construction of Kampong Chhnang and Pursat Landfills, Contract Date 19 March 2020									
Lot 1 Kampong Chhnang	844,283.27	126,642.49	590,679.43	537,020.55	1,127,699.98	100.0%	95.0%	-5.0%	Including additional works under VO1 & VO2
Lot2 Pursat	1,368,446.30	205,266.95	887,670.24	410,547.87	1,298,218.11	100.0%	100.0%	0.0%	Including additional works under VO1 & VO2
Total	2,212,729.57	331,909.44	1,478,349.67	947,568.42	2,425,918.09	100.0%	98.1%	-1.9%	

4.1.1 Flood Protection Embankment

Cancellation of the flood protection embankment The MEF has confirmed its decision to cancel the flood protection embankment. The ADB board of directors has approved the project scope change on 12 July 2021

4.1.1 Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment

As alternative for the flood protection embankments it has been agreed to finance the Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment subproject that comprises the construction of a new sewerage system, a WWTP and the selective improvement and extension of the existing drainage network

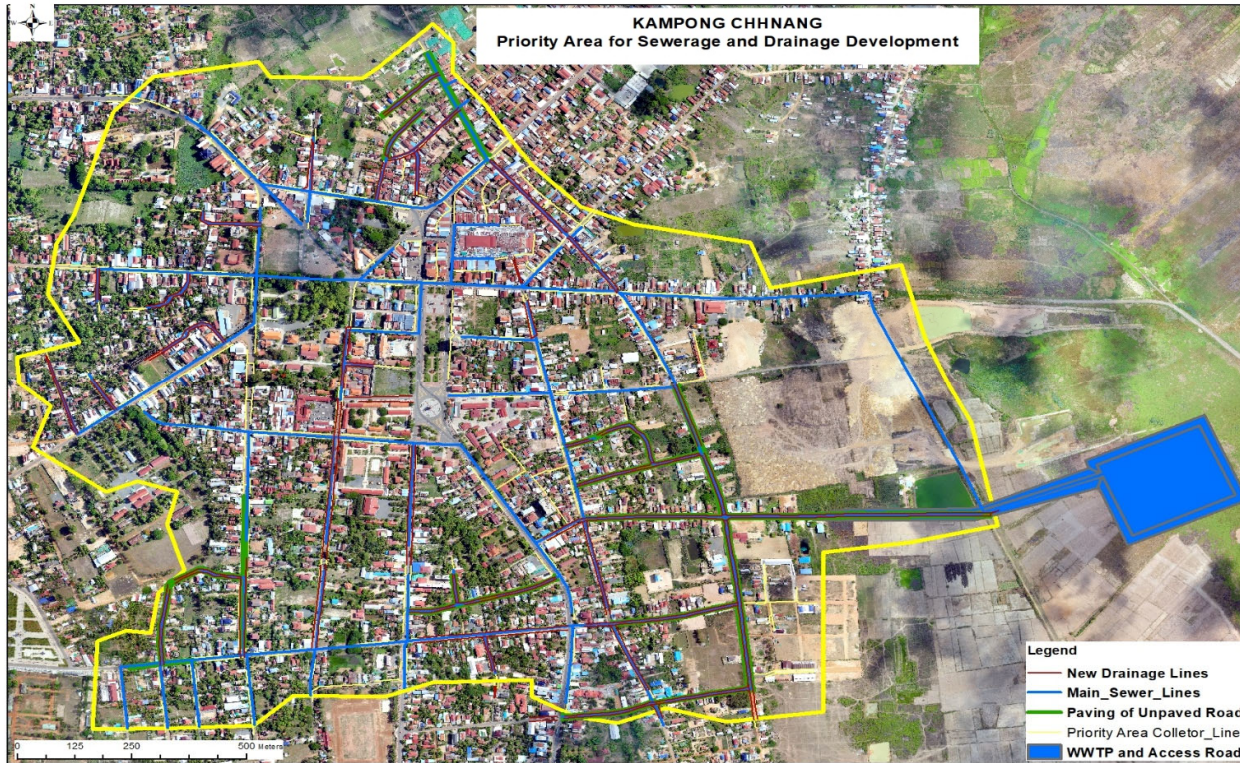
Construction of a new sewerage system in the most densely build-up town area together with the construction of a WWTP A masterplan has been prepared for the development of a separate sewerage system for the town area of Kampong Chhnang. This system would cover a total service area of 1447 ha. In the concept design a priority 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 5.4 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. 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 sewer 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.

The total cost for the for the sewerage, drainage and WWTP works is estimated to be USD 23.6 M

Progress The DED report, BOQ and cost estimate, technical specifications and construction drawings and bidding documents have been approved by ADB in the letter dated 17 August 2021. The IFB has been published on 1 September 2021 and the bid took place on 21 October 2021. The award of the contract has been delayed because of complications in the preparation of the BER. The submission of unbalanced bids required adjustment of bid prices for which additional clarifications and analysis was required. Bidders have been requested to extend the validity of the bids and bid guarantee but so far only two bidders have complied with this request. With the contract award now expected by June 2022 and with a proposed contract duration of 24 months the contract will now be completed by June 2024 which is beyond the present project closing date of 30 October 2023, and revised loan closing date of 30 April 2024.

Figure 4-1: Proposed Kampong Chhnang town area for sewerage development and priority area



4.1.2 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, NOL received from ADB, 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.
- CW06 VO2, NOL received from ADB. The additional works (see below) under this VO have increased the total accepted cost of the works for lot 1. with USD 438,897.10 from USD 954,817.13 to USD 1,393,714.23, without contingencies. The contract completion date has been extended from the present completion date of 11 October 2021 to 28 February 2022

Construction Landfill & Ancillary Works. Including VO1

Progress is 95%, 5% behind the planned completion of 100%) 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 were 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. (completed)
- 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 (Completed)

- 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 (Completed)



Overview completed asphalt lining of waste cells and leachate ponds



Completed rain water runoff balancing pond

VO2

Additional works under VO2 include:

- a balancing pond that will receive drainage water from the road in front of the landfill and from the hill slope above the landfill site. The pond will cover an area of 12.000 m² and have a storage capacity of 23.800 m³. (Completed)
- Environment a constructed wetland will be added for storage and further polishing of leachate overflow from the leachate stabilization ponds. (Completed)
- The installation of a weighbridge has been added to allow for different operators of the management of the landfill and the waste collection, and to accept solid waste from third parties. (Completed)
- of a facility for waste pickers which will include toilets, washing facilities and a shaded area for resting and temporary storage of recovered materials (Completed)

Remaining works to be completed are finishing works, landscaping and minor corrections in the finished works



Completed constructed of wetland

Liability period	Will start after the handover of the completed infrastructure at the end of April 2022
O&M support for SWM	Operation and maintenance manual for the landfill is being completed. PMIS will provide onsite support for O&M
Remediation and Closure of existing dump sites	During the ADB review mission in September it was agreed that a provision for investigations of the environmental issues and ongoing risks at the dumpsite would be included in the contract variation to allow a decision to be made by the PMU on the most appropriate remediation solution, as well as a provision for the preparation of a detailed design and cost estimate for specific civil works package for the selected solution for the dumpsite remediation. The PMIS VO5 includes a provision for a more specific review of the legal issues related to the remediation of the dumpsite, in particular the contractual obligations of the SWM contractor for closure of the dumpsite and the options for the project to support the Municipal authorities in this endeavour. The VO include also provision for topographic survey of both the Pursat and Kampong Chhnang dumpsites including the collection of drone imagery, collection and analysis of groundwater samples, core drilling in the waste layers to measure the thickness of the waste layers and check the permeability of the underlying soil layers.

It is proposed to carry out surveys and investigations at the Kampong Chhnang dumpsite to propose remediation solutions. These solutions could be implemented under the project if there are no legal constraints or could guide the responsible authorities or SWM operators for closing 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

4.2 Pursat Urban Environmental Improvements

4.2.1 Improvement Drainage in Pursat Town and Waste Water Treatment

<p>Preparation of Detailed Design, BOQ and Cost Estimate (DED) for improvement of the combined storm water drainage/sewerage system and construction of a WWTP</p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p>Preparation of IEE & EMP</p> <p>Preparation of Domestic IESIA by a local consulting firm accredited with the MoE</p>	<p>Preparation of the IEE and EMP have been completed and approved by ADB</p> <p>The MOE has issued the IESIA license for the subproject</p>
<p>Preparation and Implementation of a Resettlement Plan</p>	<p>The DRP for the subproject has been approved. Compensation payment has been made to 21 AH along the line 7 drainage line (parallel to the old irrigation canal). Installation of the pipeline in this section has been completed</p> <p>During the installation of the drainage line 7 some unanticipated impacts have been reported. A total of 39 AHs/174 APs had unanticipated IR impacts caused by the construction contractor widening the road during the installation of the drainage and sewer network. Impact on structures was caused on 38 AHs/171 APs, out of which 3 AHs/16 APs primary structure has been shifted back (with no impact on the structure) and 8 AHs/23 APs primary structures had partial impact (approximately 0.5m cut-off, leaving remaining structures viable for continued residency). 8 AHs/38 APs stairs into the stilted houses needed changing the direction of the stairs away from the road (of which 2 AHs/9 APs also had rain cover built on top of the stairs). The remaining impact on secondary structures included animal den (2 AHs/10 APs), extended eaves (17 AHs/83 APs), fences (6 AHs/30 APs) and one spirit house. The spirit house was re-impacted as it was impacted already earlier in year 2020, and was compensated once at that time. All of the other unanticipated impacts were new, and not compensated previously.</p> <p>It should be noted that since in the preparation of the DRP and subsequent monitoring no georeferenced data are collected the impact reported is largely anecdotal based on verbal claims by the supposedly AH. The impact assessment was done by an independent monitoring organization and was solely based on interviews with HH without corroboration of the reported impact. It would have been possible to collect post construction drone imagery of the line 7 alignment and compare the imagery with the already available ante construction imagery to verify the impact claims, but the use of geographic information techniques for assessment of impact is still far beyond the capabilities of all involved in the preparation and monitoring of resettlement impact.</p>
<p>Bidding Process and Contract Award</p>	<ul style="list-style-type: none"> • CW05 was signed on 31 March 2019. The Contract sum is USD 9,834,116.59. • CW05 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

- CW05 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
- CW05 VO3. For completion of the additional works of this VO the contract closing date has been extended from 31 December 2021 to 31 March 2022. The VO includes; (i) minor works to improve the outflow from the drainage system in the open canal and the drainage from the open canal in to the natural drainage;(ii) reinstatement the full width of the damaged pavement on roads where drainage pipelines have been installed as the excavation of trenches in the middle of roads with existing DBST pavement have created more damage to the existing pavement than originally estimated; (iii) upgrading of laterite pavement on road sections in which drainage lines have been installed to DBST; (iv) installation an additional drainage line between street 102 and street 103 including the full reinstatement of BDST pavement; (v) Construction of a retaining wall and a shed for housing of the generator at the WWTP. With this VO-03 the contract amount will increase with USD 1,114,949.43 from USD 9,749,378.50 to USD 10,949,066.02
- CW05, VO4, includes the following works;(i) reinstatement of concrete pavement in line 3 after the installation of the drainage line; (ii) the DBST pavement which is badly damaged by the installation of drainage lines around the market area will be replaced with more durable concrete pavement which will better withstand the wear and tear cause by the heavy traffic in this area and provide for improved sanitary conditions around the market area; (iii) repair and further extension of road curbs and gutters to limit the inflow of soil and debris from the unpaved road shoulders or damaged road curbs into the drainage lines;(iv) repair or replacement of 210 manhole covers and cover frames With this VO-04 the contract amount will increase with USD 1,229,880.83 from USD 10,949,066.02 to USD 12,178,946.85.
- CW05, VO5, an additional contract variation will be required to provide the necessary provisions for: the increased quantities for aggregate base course material in the reinstatement of the DBST pavement in the town area on roads in which the new drainage lines have been installed. During the ongoing pavement reinstatement, it was found that most of the roads did not have a base course foundation and that the existing DBST layer was directly laid on top of the existing native (subgrade) material. For the reinstatement of the existing DBST pavement it is necessary to first install a proper base course to ensure the quality and durability of the municipal roads. In addition, to ensure a consistent quality of the roads it is necessary to improve the pavement in road sections that were not directly affected by the installation of drainage pipe lines but connect the road sections with reinstated and improved pavements. The VO also includes minor additional works for the repair of road curbs, road markings and signs in the town area, raising and leveling of existing manholes to align with the new pavement levels, additional base course material for extension of the pavement on the irrigation canal road and installation of a protective railing on a section of the Kaoh village river embankment
With this VO-05 the contract amount will increase with USD 1.091.449 from USD 12,178,946.85 to USD 13.270.395.

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Construction of the Combined Sewer/Drainage lines

19.8 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 1100 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, therefore under VO3 a provision for new DBST pavement of the full road width has been provided. Of the total road length of 19 km on which DBST or concrete pavement has to be reinstated or newly constructed 4.4 km has been completed Progress of pipe installation and pavement reinstatement or upgrading is 69%. Overview maps of the pipe installation and pavement reinstatement status are given in annex 8



Pavement reinstatement; installation of a new base course and DBST layer

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 71%.



Before



After

Road Curb and gutter repair in the market area



Overview of the Pursat WWTP

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. The cleaning activities had been suspended during the rainy season but have now been resumed. An overview map of the pipe cleaning status is given in annex 8
Overall Progress of CW05	Overall construction progress, is 92%; 6% behind (Planned Percent Complete 96%). Projected overall slippage is 0. days..
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

4.2.2 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
- CW06 Pursat Landfill (Lots 2) was signed on 19 March 2020. Contract Sum USD Lot2: USD 1,368,446.30).
 - CW06 VO1; NOL has been received by ADB, 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. The additional works include: the construction of an additional waste cell and a constructed wetland for receiving and polishing overflow form the leachate storage ponds

- CW06 VO2 is under preparation and will be submitted by the middle of October 2021. The additional works under this VO the total accepted cost of the works with USD 514,304.30 from USD 2,549,948.86 to USD 3,064,253.16, without contingencies. The additional works include: The installation of a weighbridge has been added to allow for different operators of the management of the landfill and the waste collection, and to accept solid waste from third parties and facility for waste pickers which will include toilets, washing facilities and a shaded area for resting and temporary storage of recovered materials



Constructed wetland Weighbridge and waste picker facilities

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 was raised with one meter to prevent flooding of the site. Site development construction the waste cells, leachate collection ponds, wet land, boundary wall, administrative building has been completed. The construction of waste picker facilities, the installation of a weighbridge and land scaping is ongoing. Construction has been completed and inspection has been carried out jointly by PMU, PIU and Consultant. Minor defects were found and the contractor was instructed to rectify these defects.



Overview of the completed Pursat landfill site

Liability period	Not yet due
O&M support for SWM	Not yet due
Remediation and Closure of	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

existing dump sites 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. The waste deposits that will have to be transferred to this area from the adjacent are estimated to be between 60 to 80.000 m².

The PMIS VO5 includes provisions for a more specific review of the legal issues related to the remediation of the Pursat dumpsite and for technical investigations that comprise; collection of drone imagery, supplementary survey work to support the preparation of the detailed designs for the closure/decommissioning of the dumpsite; drilling boreholes in accumulated solid waste in the kampong Chhnang and Pursat existing dumpsites to measure the thickness of the waste layer and permeability/pollution in underlying soil layers, testing of the general physicochemical properties of ground water in the vicinity of the landfills.

It is proposed to carry out surveys and investigations at Pursat dumpsite during Q4 of 2022, during the rainy season starting in May investigations are not possible as the site is flooded or waterlogged.

A provision for detailed survey and investigations of the existing Kampong Chhnang dumpsite is also included in the PMIS VO5 in case the local authorities require support for closing the dumpsite or if in closing out the ongoing SWM contract the dumpsite is transferred to the Municipality, similar to the case in Pursat

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

4.2.3 River Bank Protection for the Pursat River

Reconstruction of the Kaoh village Pursat River Embankment	During the the floods of October 2020, the river embankment in the Kaoh village was breached at several places. The reconstruction of the embankment has been completed under CW06, VO2. Completion of the selective embankment protection works which were suspended during the rainy season have been resumed.
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4.3 Institutional Development, Tariff Structure Tariff Setting, Subsidy Methodology and Public Private Partnership Development

17. 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

4.4 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. During this reporting period the software has been redesigned for the use of PostgreSQL as the open source object-relational database system for data
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storage and processing. The system has also been improved to provide more editing facilities and tools for the system user
 In addition, because of the rather organically driven urban development activities in Pursat and kampong Chhnang the masterplans are being updated to have any relevance for the present situation.
 For completion of the system and installation in a local server the in country support of the IT specialist will be necessary

4.5 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 81 pit latrines in the Tould Mkak village and 26 latrines in the Kaoh village has been completed
 There has been no progress on procurement and supply of complementary sanitation equipment for the selected beneficiary households. There is also no progress of the proposed improvement of 47 existing latrines.



Completed VIP latrines

Kbal Hong village

With the aim to understand detailed situation of the self-connection to main sewerage line for HH along the Kbal Hong canal, Padek team is finalizing the options of conducting a level assessment along the canal to ascertain the elevation of each premises. This action will be possible once the VO for the NGO services is approved.

Limitations for the implementation of the CMEI component

Community managed environmental improvements has turned out to be a misnomer for this component. Community management or common-pool resource management is the management of a common resource or issue by a community through the collective action of volunteers and stakeholders. The role of the NGO should be to provide assistance to the community and additional resources to be used by the community to implement the proposed works. However the rules for procurement of good, works and services agreed for this project do not permit this model as all work, goods and services have to be procured by the EA and works constructed by formally registered construction firms or service providers and not by the community themselves. This means that active participation of the community is limited to consultations and apart from facilitating these consultations the role of the NGO is limited to a conventional role for design and construction supervision.

Given these limitations on the work of the NGO, it is proposed that for the VO of the PADEK contract the services provided by the NGO should be focused on activities and action that the NGO can undertake without being restricted by the administrative limitations of the project, which are community consultations, awareness creation and training. The following main activities are proposed:

- Completing the sanitation survey of the houses along the irrigation canal in Pursat and assess the viability with possible solutions for connecting the houses with the new combined drainage/sewer lines. This would include an

estimate of the materials required and the cost. The EA would procure the works and construction supervision would be done by PMIS

- Assessment of the options for community participation in solid waste collection in areas not served by direct solid waste collection services. This would involve a survey of the present coverage, frequency and quality of solid waste collection, identify areas which are presently not served or infrequently served, after community consultation in these areas propose measures to improve solid waste collection with participation of the community and materials/equipment required.
- Sanitation inventory in the proposed service area for the sewerage system in Kampong Chhnang. Which would comprise the identification of type of buildings, use of the buildings, type of sanitation and disposal, number of persons for the disposal facility (soak pit, septic tank or connection to the drainage system), willingness to connect and pay sanitation fee and possibility for installing collector lines on communal or private property with the agreement of the owners. This information is essential for obtaining the maximum number of user connections to the new sewerage system

5 PROJECT MANAGEMENT ARRANGEMENTS

5.1 PMU and PIUs

18. 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

19. 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

20. 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.

21. 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.

22. 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.

23. 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,

24. 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

25. 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

26. 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

27. Up to the end of this reporting period, the total person-months used can be summarized as follows; international 92.3 pm (83.3% of the total provision), and national 399.8 pm (74% of the total provision), The total provision includes the addition pm input provided under VO5. The details of the consultant's staff input are show in annex 7

Table 5-1: Consultant's Staff Inputs

Specialists	Total p/m	p/m used	Balance	Percentage P/M used
International	91.3	76.1	15.2	83.3%
National	399.8	296.0	103.8	74.0%
Total	491.1	372.1	119.0	75.8%

5.3.2 VO-04

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

5.3.3 VO-05

29. VO5 has been approved, the VO extends 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 and includes the required inputs for the O&M support of completed infrastructure under CW05 and CW06, construction supervision of CW10, engineering support required for possible design changes or additional works, the investigations and detailed design for the selected solution for the dumpsite remediation, and safeguard monitoring including the preparation of required updates of safeguard documents in the case of a variation of the CW10 works contract.

30. The contract variation increased the total contract amount with USD 663,716.30 from USD 4,206,913.00 to USD 4,870,629.30

5.4 Financial Management

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

Table 5-1: Financial covenants

The MPWT will pursue improved collection of fees and charges for urban environment infrastructure to recover the cost of O&M expenditures	It has been agreed that financial management and billing support for the Kampong Chhnang and Pursat urban infrastructure will be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) that provides project preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region
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
Kampong Chhnang Flood Protection Embankment Construction	MEF has requested the cancelation of the subproject	Project scope change has been approved on 12 July 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 issues
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 The IEE and EMP for VO2 has been updated and submitted to ADB	Completed
Pursat Landfill Construction and Operation	EMP, IEE and domestic IESIA have been completed The IEE and EMP for VO1 has been updated and submitted to ADB	ADB has approved the updated IEE and EMP
Kampong Chhnang Sewerage, Flood Protection and Wastewater Treatment	IEE has been prepared and has been approved by ADB Preparation of the IESIA is ongoing	The IESIA has been approved by the MOE in August 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 Additional works under VO1 and VO2 are within the boundary of the landfill site	Project scope change has been approved on 12 July 2021
Kampong Chhnang sewerage/drainage system	The BRP has been prepared and has been approved by ADB Detailed mapping of the COI for the WWTP and access road has been prepared	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. Draft DRP has been submitted by GDR on 23 March. After submission a discrepancy was found between the number of AH in the DRP (16) and the number of

		AH identified in the SES (11). The discrepancy is being checked and rectified.
Pursat, Reconstruction of the Kaoh village river embankment (CW05 VO2)	Social DDR has been prepared and submitted to ADB	DDR has been approved by ADB
Pursat, Pavement upgrading and reinstatement (VO3 and VO4)	DDR has been prepared and submitted to ADB	Conditional approval by ADB. During the installation of the drainage line 7 some unanticipated impacts have been reported. A total of 39 AHs/174 APs have been reportedly affected by the impacts caused by the widening the road during the installation of the drainage and sewer network. Compensation has been made using the budgeted provision in the general items of the CW05 works contract
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
	Additional works under VO1 and VO2 are within the boundary of the landfill site	

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, approved ADB, • January 2021 to June 2021, approved by ADB • July 2021 to December 2021, could not be finalized because the required information from GDR/DIMDM was not made available. The draft report will now be submitted without this information
Environment		
	Semi-Annual Environmental Monitoring Report	<ul style="list-style-type: none"> • July 2020 – December 2020 approved by ADB. • January 2021 – June 2021, approved by ADB • July 2021 to December 2021 the draft report has been submitted, ADB comments have been received and the report will be resubmitted in the first week of April

6.4 Social Safeguards

6.4.1 The indigenous peoples

32. 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).

33. 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.

34. 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. Records of complaints on social media are being kept

6.4.3 Gender Action Plan

35. 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.

36. 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. Because of the many comments from ADB on the GAP monitoring table presented in QPR 20, the national specialist has not been able to respond to all these comments and update the table. Once the update is available it will be submitted separately.

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 is periodically reviewing the Risk Assessment, and follows the guidelines and instructions 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. 	<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

COVID-19 Mitigation Measures for EMP		Actions
	<ul style="list-style-type: none"> 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"> 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, bathrooms, communal areas, offices, and any other areas with commonly touched surfaces. 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"> Toilets and washing facilities are provided at the construction site and workers camps and are regularly cleaned 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 Contract 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 	<ul style="list-style-type: none"> Safe and health working environment has been established health promotion and wellbeing is being promoted through training

COVID-19 Mitigation Measures for EMP		Actions
	physical and mental activity and adequate work-life balance. <ul style="list-style-type: none"> 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 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

37. 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 March 2022 • 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 April 2022 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 have been 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. • Installation of 81 VIP latrines in the Toul Mkak Village and 26 VIP latrines in the Kaoh village in Pursat has been completed. The distribution of additional sanitation material and the proposed improvement of an additional 47 existing latrines is severely delayed • 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 the target of 5.400 pour flush toilets for ID poor can be achieved • Units are to be established before the handover of the landfills to the municipalities, Support for financial management and billing to be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) for preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region • 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

38. 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

39. 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.

40. It has also been agreed that USUs or management unit 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 cannot be complied with as the landfills have been completed and have to be handed over at the end of April 2022 but no functional semi-autonomous USUs within the municipalities of Kampong Chhnang and Pursat are in place.

41. A legal review of options for decommissioning the existing dumpsites has been prepared. 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. Provision for survey, investigations and detailed design for dumpsite remediation have been included in the VO5 for the PMIS contract

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

9 ASSESSMENT OF VALIDITY OF KEY ASSUMPTIONS AND RISKS

43. 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.	The Kampong Chhnang flood embankment has been cancelled
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 project scope change for the project protection from river induced flooding will be provided by improving and extending the existing drainage system for the Kampong Chhnang sewerage/drainage system,</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>Support for financial management and billing to be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) for preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region</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 sub-account has not yet been established in each PIU. This cast 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

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

Targets this quarter	Compliance	Targets next quarter
Contract award for CW10 by March 2022 Draft DRP will be submitted by the middle of January 2022	Bid evaluation has been completed Preparation of the draft DRP has been submitted Contract award of CW10 is delayed	Contract award for CW10 by March 2022 Draft DRP will be submitted by the middle of January 2022
CW05, completion of all construction works under the original contract and the VOs 1,2,3,and 4 The estimate for the increase in the quantity of subgrade for the reinstatement of DBST pavement will be completed by February 2022 The design pumping station will be completed by February 2022 For completion of works under VO5 the contract period will have to be extended with 2 month CW06 completion of the Kampong Chhnang and Pursat landfills	Works under the original contract and V)s 1,2,3 and 4 have been completed with the exception of finishing works for the WWTP VO5 has has been submitted for approval The construction of a pumping station at the WWTP has been deferred because of environmental concerns The contract has been extended till the end of April, first inspection of the Pursat landfill has been done and minor corrective works are ongoing	CW05, all work will be completed by the end of June 2022. Final inspection of the works is schedule for the middle of June In view of the frequent high-water levels in the irrigation canal at the outfall of the WWTP and drainage system, the inflow into the WWTP will have to be carefully controlled and gate setting calibrated. Water levels at the outfall will have to be systematically recorded.
Meetings with Pursat and Kampong Chhnang Provincial Authorities on the operation of SWM and equipment requirements	Draft specifications for the SWM equipment have been prepared. Meetings have not yet been held	Meetings with Pursat and Kampong Chhnang Provincial Authorities on the operation of SWM and equipment requirements
Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions	The GAP has been updated The final SERM for Q2/Q4 2021 will be submitted in the first week of April Submission of the SSRM is delayed because of delays in the preparation of the minoring report by GDR/DIMDIM Environmental and social safeguard monitoring has been done by the national specialists.	Basic Safeguards monitoring will be continued, as far a practically possible under the present COVID restrictions
Supply of additional sanitation equipment for ID poor HH in the Toul Mkak and Kaoh Villages. Finalizing solution for sanitation improvements in the Kbal Hong village	The installation of VIP latrines in the Toul Mkak and Kaoh Villages has been completed The distribution of supplementary sanitation equipment is delayed as well as the improvement of 48 additional latrines	
Construction supervision will be continued as far as the COVID restriction will allow the supervision activities	Construction supervision was continued.	Construction supervision will be continued with the final inspection of the Kampong Chhnang landfill and the Pursat Drainage works and WWTP

Annexes

Annex 1 : Revised Implementation Schedule



Project: Implementation schedule Date: Sun 5/1/22	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



Project: Implementation schedu Date: Sun 5/1/22	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 4 : 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>Support for financial management and billing to be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) for preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region</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 April 2022. 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 is premature	Support for financial management and billing to be provided under the transaction technical assistance (TA) facility (the Southeast Asia Facility for Resilient Cities) for preparation, policy advice, and capacity development support for projects and investment programs in the urban development and water sectors of the Southeast Asia region
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	DMF is regularly updated
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	Part of the dumpsite has been transferred to the municipality. 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.

Ref	COVENANT	STATUS	ACTIONS	REMARKS
				Detailed surveys and investigations for decommissioning of the dumpsite will be done by the PMIS in Q4 2022. During Q3 the site will be flooded or waterlogged
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>In Compliance</p>	<p>Was brought in compliance after the project scope change with the cancellation of the Kampong Chhnang Flood Protection Embankment</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>	In compliance	External monitoring organization has been recruited by GDR	

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 5 : Overview of the input by Key International and National Specialists

KEY EXPERT (INTERNATIONAL)

No.	Expert / Position	Original Contract + VO 1, 2, 3, 4, 5			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>	2.50	42.85	45.35	0.93	33.23	0.27	1.93	1.20	35.16	1.30	7.69
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>	3.89	2.86	6.75	2.69	2.86	-	-	2.69	2.86	1.20	-
KI-04	Herkko Kristian Torssonen <i>Solid Waste Management Specialist</i>	1.42	2.93	4.35	0.23	2.93	-	-	0.23	2.93	1.19	-
KI-05	Cliff Massey/Rachel Wildblood <i>Environment Specialist</i>	4.42	2.08	6.50	2.53	2.08	0.10	-	2.63	2.08	1.79	-
KI-06	Paul Van Strijp/Teemu Antero Jantunen <i>Social Development and Resettlement Specialist</i>	3.10	9.50	12.60	1.46	8.60	0.50	-	1.96	8.60	1.14	0.90
KI-07	Kerry Maxwell Bianch <i>Municipal Finance Specialist/Economist</i>	0.00	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)			91.31	8.62	64.68	0.87	1.93	9.49	66.61	6.62	8.59

KEY EXPERT (NATIONAL)

No.	Expert / Position	Original Contract + VO 1, 2, 3, 4, 5			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>	78.50		78.50	58.00			3.00		61.00		17.50
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>	28.50		28.50	24.00			-		24.00		4.50
KN-06	Phung Katry/ 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>	12.00		12.00	10.00			-		10.00		2.00
KN-08	Chhoeum Ravann/ Meng Nantara <i>Resident Engineer 1</i>	42.00		42.00	21.45			3.00		24.45		17.55
KN-09	So Saran <i>Resident Engineer 2</i>	0.00		-	-			-		-		-
KN-10	Chhor Ratha/ Nuon Udom <i>Site Engineer 1</i>	40.50		40.50	20.10			3.00		23.10		17.40
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>	41.50		41.50	21.34			3.00		24.34		17.16
KN-14	Chhay Theara <i>AutoCAD Operator-Solid Waste Management</i>	22.50		22.50	18.00			-		18.00		4.50
KN-15	Norm Mara <i>AutoCAD Operator-Drainage and River Bank Protection</i>	0.00		-	-			-		-		-
KN-16	Pen Titdara <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>	16.00		16.00	5.71			0.68		6.39		9.61
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			0.13		10.49		7.51
KN-21	Ouk Momyroath <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>	4.00		4.00	1.96			-		1.96		2.04
KN-26	Unallocated	1.00		1.00	-			-		-		1.00
KN-27	Electro Mechanical Engineer	3.00		3.00	-			-		-		3.00
	Subtotal Key Expert (National)			399.79	283.21	-	12.81	-	296.02	-	103.77	-
	Total (International + National)			491.10	291.83	64.68	13.68	1.93	305.51	66.61	110.39	-

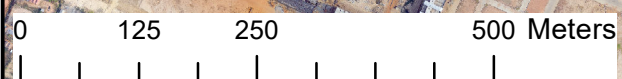
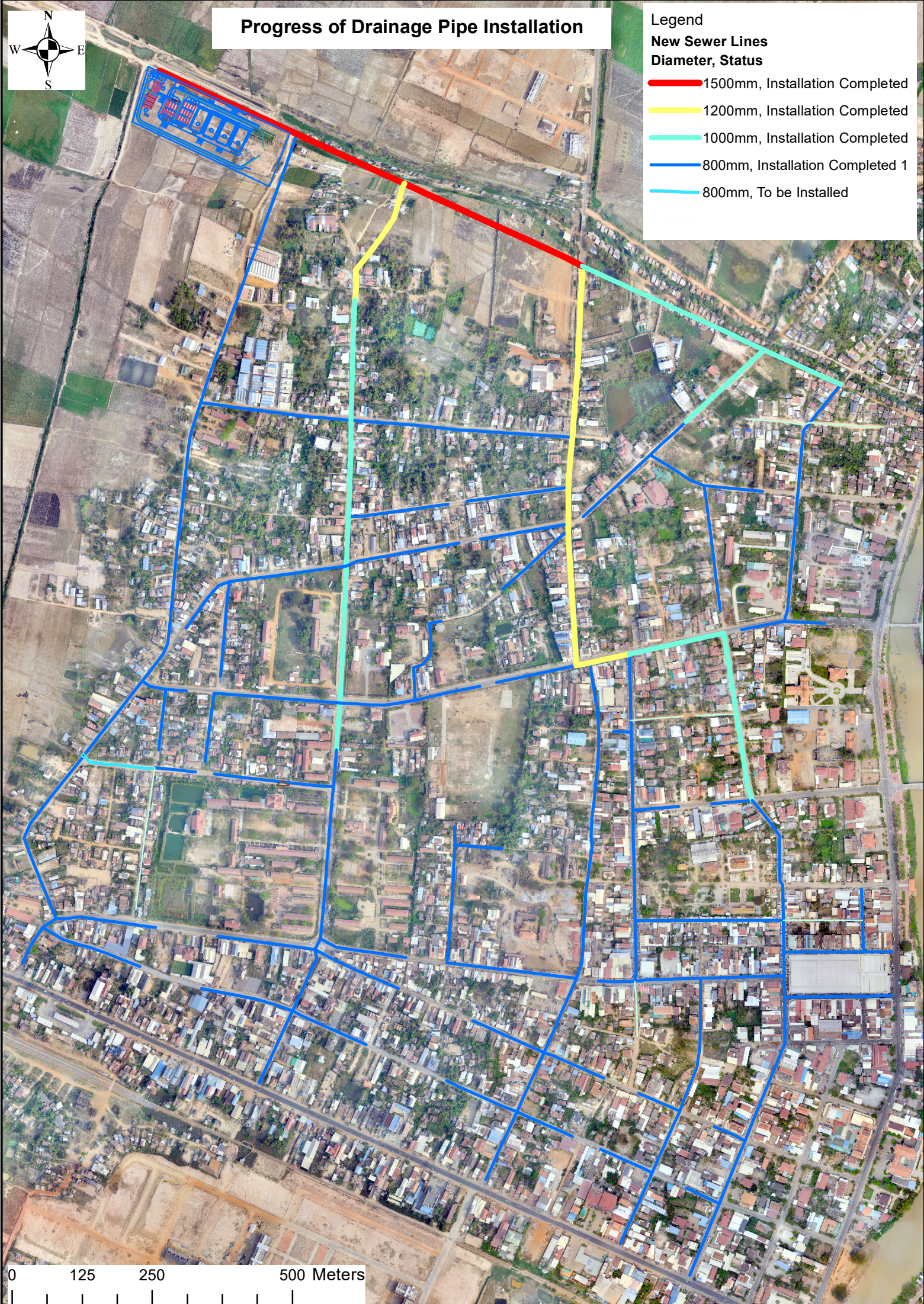
Annex 6 : Maps of Construction progress in CW05

Progress of Drainage Pipe Installation



Legend
New Sewer Lines
Diameter, Status

- 1500mm, Installation Completed
- 1200mm, Installation Completed
- 1000mm, Installation Completed
- 800mm, Installation Completed 1
- 800mm, To be Installed









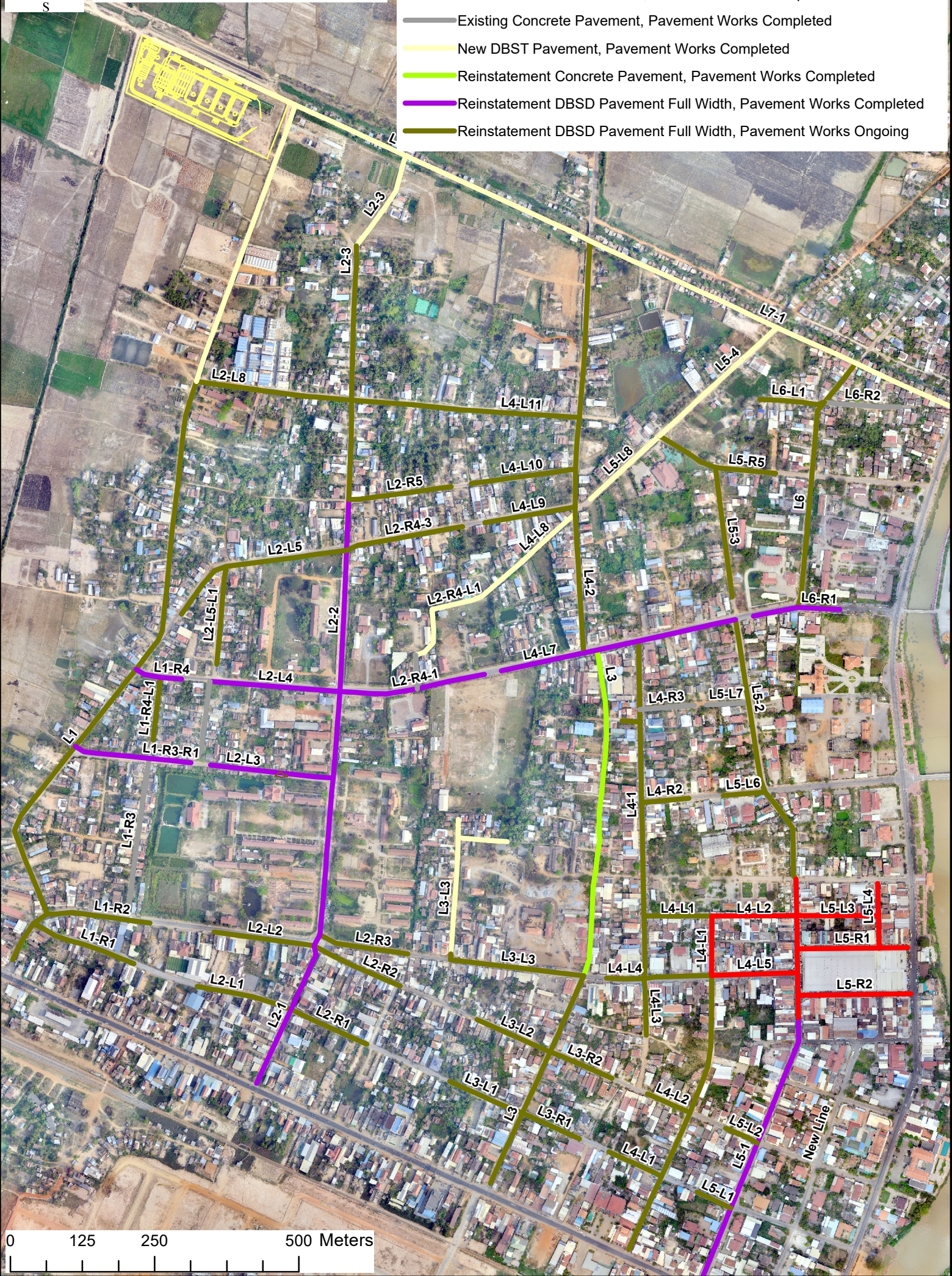


Progress Reinstatement of Pavement

Legend

Pavement, StatusP

-  DBST to Concrete Pavement, Pavement Works Completed
-  Existing Concrete Pavement, Pavement Works Completed
-  New DBST Pavement, Pavement Works Completed
-  Reinstatement Concrete Pavement, Pavement Works Completed
-  Reinstatement DBSD Pavement Full Width, Pavement Works Completed
-  Reinstatement DBSD Pavement Full Width, Pavement Works Ongoing



0 125 250 500 Meters