

Environmental and Social Monitoring Report

Consolidated Report
January – December 2019

January 2020

Cambodia: Provincial Water Supply and Sanitation Project

Prepared by the Ministry of Public Works and Transport for the Asian Development Bank.

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KINGDOM OF CAMBODIA



MINISTRY OF PUBLIC WORKS AND TRANSPORT

Cambodia:

PROVINCIAL WATER SUPPLY AND SANITATION PROJECT

ADB L3630 /L8335/G0561-CAM

Sanitation Component

ENVIRONMENTAL AND SOCIAL SAFEGUARDS MONITORING REPORT

Covering Period from January to December 2019

Submission date: January 2020

Prepared by
RAMBOLL Consultant International
In association with
TANCONS (Cambodia) Co., Ltd

ABBREVIATIONS

ADB	Asian Development Bank
AH	Affected households
AP	Affected persons
CEMP	Contractor's environmental management plan
EA	Executive agency
EMP	Environmental management plan
ESO	Environment and Social Office
DDR	Due diligence report
GRC	Grievance redress committee
GRM	Grievance redress mechanism
IA	Implementing agency
IEE	Initial environmental examination
IR	Involuntary Resettlement
MIH	Ministry of Industry and Handicrafts
MOE	Ministry of Environment
MPWT	Ministry of Public Works and Transport
NGO	Non-government organization
PDOE	Provincial Department of Environment
PIAC	Project implementation assistance consultant
PIUs	Project implementation units
PMU	Project Management Unit
PPE	Personal protective equipment
PPTA	Project preparation technical assistance
PWSSP	Provincial Water Supply and Sanitation Project
PWW	Provincial Waterworks
RP	Resettlement plan
SPS	ADB's Safeguard Policy Statement
UWSP	Urban Water Supply Project
WWTP	Waste Water Treatment Plan

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SECTION ONE: PROJECT MONITORING REPORT

I. Provincial Water Supply and Sanitation Project

1.1. Project Overview

1. The Provincial Water Supply and Sanitation Project (PWSSP) aims to establish a sustainable piped water supply and sanitation service in the selected provincial cities/towns, of Battambang, Kampong Cham, Sihanoukville and Siem Reap.
2. The Project is supported by two project implementation assistance consultant (PIAC) packages, one for water supply on behalf of the General Department of Potable Water Supply under the Ministry of Industry and Handicrafts (MIH) and one for sanitation under the General Department of Public Works of the Ministry of Public Works and Transport (MPWT). This report is produced under the sanitation component on behalf of MPWT.

Table 1: Project at a Glance

Project name: Provincial Water Supply and Sanitation Project		Project number: 48158-002 Loan/Grant: ADB L3630 /L8335/G0561-CAM	
Executing Agency: Ministry of Industry and Handicraft		Implementing Agency: Ministry of Public Works and Transport which has established a Project Management Unit. Implementing Units: The four subprojects are overseen by a project implementation unit in each city which is chaired by the Provincial Governor.	
Safeguard Categorization	Environment: B	Involuntary Resettlement: B	Indigenous People: C
Reporting Period	January– December 2019		
Report prepared by:	RAMBOLL International Consultant in association with TANCONS (Cambodia Co., Ltd)		

3. The PWSSP is building on the investment made for the Urban Water Supply Project (UWSP) to improve urban water supply services in provincial towns. The PWSSP is aligned with phase 3 of the government's rectangular strategy for growth, employment, equity, and efficiency as described in the National Strategic Development Plan for 2014–2018. and will improve and expand urban water supply, wastewater and septage management services in the selected towns. At the project design stage it comprised six subprojects, two of which were for the improvement and expansion of piped water supply coverage and four of which were for the improvement of wastewater and septage treatment and conveyance.
4. **Water Supply Subprojects¹:** Water supply subprojects in two cities which will involve design and technical documents to be implemented by MIH under preparation of four work packages: MIH-CW01 - Battambang water treatment plant and MIH-CW02 Battambang distribution network; MIH-CW03 Kampong Cham water treatment plant and MIH-CW04 Kampong Cham distribution network as follows overleaf:

¹ The water supply subprojects here listed for completeness. Unless otherwise specified subsequent sections of this report only present subprojects that are under the scope of the sanitation component.

- **Battambang water supply:** The subproject will build a new water treatment plant, which is planned to be located on public land belonging to the Department of Industry and Handicrafts of Battambang with an area of 2.4 ha and is approximately 4 km from the town center. The subproject will comprise three components: the intake station, water treatment plant and water supply network. Water will be extracted from the Sangké River. The treatment plant construction will take place in 2 phases where phase I will increase production capacity to 50,000 m³/day, sufficient for demand to 2025. The phase II works will increase production by a further 30,000 m³/day for the period between 2026 and 2040.
- **Kampong Cham water supply:** The subproject is expected to improve the water supply system by expanding access to reliable 24 hours urban water supply in priority urban and suburban areas. It will comprise three components: the intake station, water treatment plant and water supply network. On completion of the subproject works in 2022 a further 15,775 households with a population of 65,194 people will have access to the extended water supply network, including 33,249 women (51%).

5. **Wastewater Subprojects:** Initially at loan signing there were wastewater subprojects in Battambang, Siem Reap, Sihanoukville and Kampong Cham which were to be implemented by the MPWT under the following civil work packages: PWSSP/MPWT-01 Siem Reap replacement interceptor sewer; PWSSP/MPWT-02a/2b Wastewater treatment plants at Sihanoukville, Battambang and septage treatment plant at Kampong Cham; and PWSSP/MPWT-03a/3b Battambang and Sihanoukville sewerage networks. A brief description of these subprojects is as follows:

- **Battambang wastewater subproject:** This subproject aims to extend and improve existing facilities in Battambang town to increase the capacities to handle projected sewage loadings from the area for which service coverage is proposed up to 2025, containing the densely populated areas of the town center to the west of the Sangké River, and most of the intermediately populated areas just outside the center, to the year 2040. It is expected to directly benefit some 8,500 households (HHs), with 46,750 inhabitants who will be connected to the sewer. The subproject is under design
- **Sihanoukville wastewater subproject:** the Sihanoukville sanitation subproject is being cancelled and the funds are being reallocated to the Battambang and Siem Reap subprojects.
- **Kampong Cham subproject:** The civil works component of this subproject is being cancelled, but the supply of equipment for septage collection will be retained. The funds from the cancelled subcomponent will be reallocated to Siem Reap subproject.
- **Siem Reap subproject:** This subproject will involve the replacement of a 3.7 km length of failed trunk sewer pipeline. The existing 600 mm and 700 mm diameter sewer is to be replaced with a 1000 mm diameter ductile iron pipeline which will be installed using micro-tunneling and pipe jacking (trenchless technology). The new trunk sewer will continue to function as a combined sewage and stormwater system in the medium term however, eventually it will be turned into a separate, dedicated pipeline for wastewater only. In order to enable the existing sewer to function continuously the new pipeline will be constructed alongside to the old pipeline. As the road above the old trench is still unstable and continues to collapse, part of the funds from the cancelled projects have been earmarked for remedial action. This will be addressed in the next semi-annual report. In addition, the reallocated funds will be used to construct a new regional water quality laboratory in the existing wastewater treatment plant complex.

6. The locations of the cities involved in the PWSSP are shown in the Figure 1.

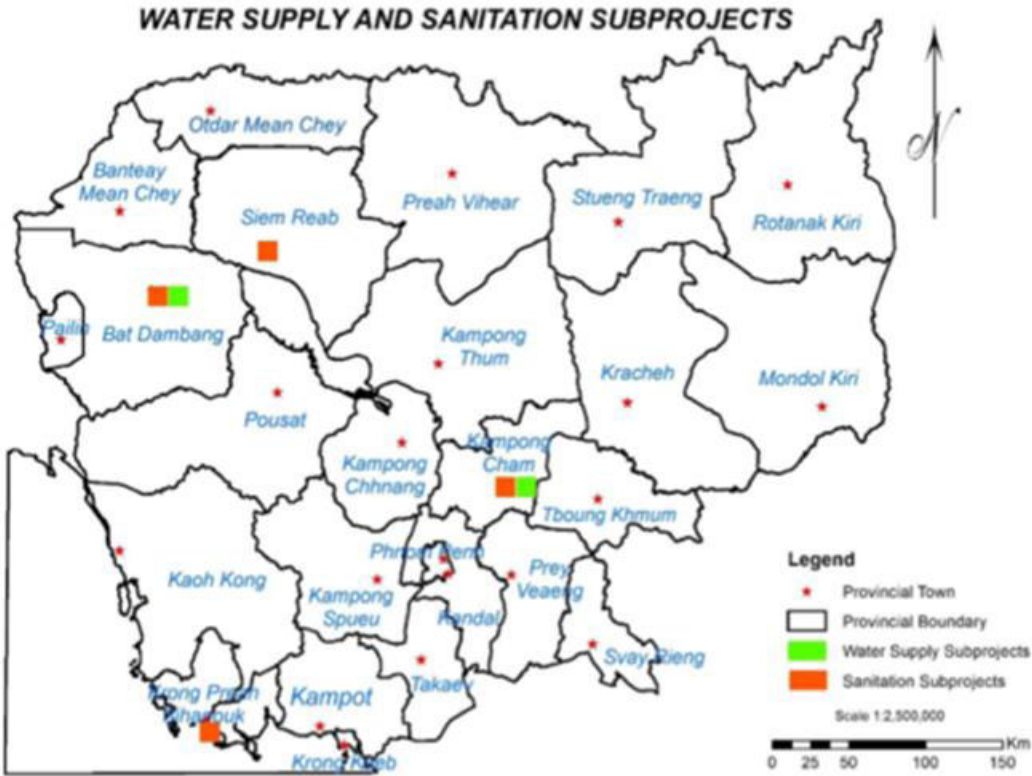


Figure 1: Location of PWSSP Subprojects

7. Project's impact and outcome: Impacts of the project are to improve urban environments and quality of life for the urban residents. Expected outcomes and outputs are as follows:

- (i) Improved piped water supply: Water supply systems improved and service coverage increased through the development of new water supply intakes and treatment facilities, replacement of old water mains, and expansion of the distribution network;
- (ii) Improved sanitation: Septage management and sewerage services provided through the provision of septage collection and treatment and the development of expanded sewerage systems; and
- (iii) Improved institutional effectiveness: Project implementation and operation and maintenance (O&M) developed to complement ongoing institutional development and capacity building in procurement, financial management, and governance

1.2. Project Status and Safeguards Compliance

8. This Semi-Annual Environmental and Social Safeguards Monitoring Report covers only the wastewater and septage treatment subprojects. The water supply subprojects are covered under a separate semi-annual environmental and social safeguards monitoring report to be prepared by the PIAC-Water Supply contracted by MIAH as the Executing Agency (EA).

9. The PWSSP is classified as category B for involuntary resettlement impacts because the two Battambang subprojects involve acquisition requirements of private land and loss of access to some of the productive land. The other four subprojects with no resettlement impacts, are grouped category C. A Resettlement Frameworks (RF) for the PWSSP and Resettlement Plans (RPs) for Battambang Wastewater and Sanitation Subproject and Battambang Water Supply

Subproject were prepared in July and October 2017. Safeguard classification is to be confirmed following DED.

10. PWSSP has been categorized as “Category B” for project as far as the environmental issues, based on ADB's environment guidelines and no component of the PWSSP is located in an environmentally sensitive or protected area. Two Initial Environmental Examination Reports with an Environmental Management Plan and implementation budget were prepared for Wastewater Subprojects and Water Supply Subprojects in June 2017. IEEs for specific subprojects were also prepared in January 2017. Safeguard classification is to be confirmed following DED.

11. Sanitation subproject status and safeguards compliance of the project are depicted as the following table.

Table 2: Sanitation Sub-project Status and Safeguards Compliance

Subproject	Project Status	Status of safeguard documents
1. Wastewater Subprojects		
1.1. Battambang Wastewater subproject	The proposed location of the Wastewater Treatment Plant (WWTP) at Chrabkrosaing village, Vaot Kor commune, Battambang Town with an area of 2.4ha is considered moved to another location. A concept design for new location of the WWTP is prepared and under review.	The IEE/EMP for wastewater projects prepared in January 2017 to be updated considering the new location of the WWTP and separate EMP to be prepared to be included in bid document. RP to be prepared and considering the new location to replace the RP prepared in October 2017
1.2. Sihanoukville wastewater subproject	Subproject has been cancelled.	IEE/EMP for wastewater projects was prepared in January 2017.
1.3. Kampong Cham subproject	Civil works package has been transferred to the TS2 Consultant	IEE/EMP for wastewater projects prepared in January 2017. IEE for wastewater projects to be updated to reflect DED and separate EMP to be prepared to be included in bid document.
1.4. MPWT-01 Siem Reap Replacement Interceptor Sewer	Under construction	IEE/EMP for wastewater projects prepared in January 2017. The EMP was not updated prior to bidding and commencement of civil works. EMP now updated and to be cleared by ADB.

12. As of the end of December 2019, the overall implementation progress for PWSSP sanitation component is estimated at 30% for wastewater projects (or 15% for the overall PWSSP if the water supply component is considered as well) compared with an elapsed time of 34%.

1.3. Compliance with Loan Covenants

13. PWSSP rated as Actual Problem for safeguards as contract for Siem Reap awarded without updating and clearing safeguards documents (see the Appendix 1). The relevant safeguard provisions as required have been also integrated into the contract documents while their overall implementation is being monitored by safeguard team.

14. The safeguards documents such as Initial Environment Examination reports (IEEs) and Resettlement Framework were posted on ADB website in 2017. The documents posted in 2017 are required updated, cleared and disclosed prior to bidding.

1.4. Institutional Arrangement for Program Implementation

15. Ministry of Industry and Handicraft (MIH) is the Executing Agency, while the Ministry of Public Works and Transport (MPWT) is the Implementing Agency. A Coordinating Committee is established for project and sector coordination between MIH and MPWT.

16. Two Project Management Units (PMUs) were established in (i) the General Department of Potable Water Supply (GDPWS) within MIH for the water supply subprojects, and (ii) the General Department of Public Works (GDPW) within MPWT for the wastewater/septage subprojects.

17. Project Implementation Units (PIUs) were established in the Provincial Waterworks (PWWs) at Battambang and Kampong Cham, and the DPWTs at Battambang, Kampong Cham, and Siem Reap, with responsibility for daily oversight and supervision of subproject implementation

18. The Project Implementation Assistance Consultant – Sanitation Package² (PIAC) has been also engaged with Environmental and Social Safeguard Teams to support and assist the PMUs and PIUs with smooth implementation of PWSSP works.

19. **Environmental and Social Safeguard Team:** The composition of the Environmental and Social Safeguards Specialists of PMUs, PIUs, the Project Implementation Assistance Consultants (PIAC) and the Contractors. Refer to Table 4 below for safeguard monitoring team and figure 2 for safeguard management institution.

20. PIAC's Environmental and Social Safeguards Specialists have been closely monitoring activities and providing active guidance and recommendation in order to facilitate the Contractors for environmental safeguards compliance.

21. PIAC is working closely with PMUs and PIUs wherever required on management of PWSSP safeguard issues related to the environmental and social safeguard compliances.

Table 3: Environmental and Social Safeguard Monitoring Team

Item	Organization/Specialist	Mobilization/on site	Remark
I	Project Management Unit (PMU)		
2	Social and Environmental Specialist (MPWT)	Mobilized	MPWT has established Social Environmental Office (SEO) responsible for the project
II	Project Implementation Units (PIUs)		
5	Social and Environmental Specialist (SES) (DPWT-Battambang)	Not yet mobilized	
8	Social and Environmental Specialist (SES) (DPWT Siem Reap)	Mobilized	SES in under PIU of DPWT at provincial level, Mr. Thern Soviet (Provincial Officer)
III	Project Implementation Assistance Consultant (PIAC)		
9	International Environment Specialist	19 May 2019	Intermittent Inputs (3 man-months)
10	National Environment Specialist	01 March 2019	Intermittent Inputs (9 man-months)
11	International Social Safeguards and Resettlement Specialist	Not yet mobilized	Intermittent Inputs (3 man-months)

² Ramboll Danmark A/S in Association with TANCONS (Cambodia) Co., Ltd

Item	Organization/Specialist	Mobilization/on site	Remark
12	National Social Safeguards and Resettlement Specialist	27 May 2019	Intermittent Inputs (9 man-months)
VI	Civil Works Contract - Battambang Wastewater subproject		
15	Social, Environmental and Safety Specialist	Not yet mobilized	Contractor not yet engaged
VII	Civil Works Contract - Siem Reap subproject		
17	Social, Environmental and Safety Specialist	Mobilized	Contractor Focal: Ms. Laing Lenghieng 098 213 575

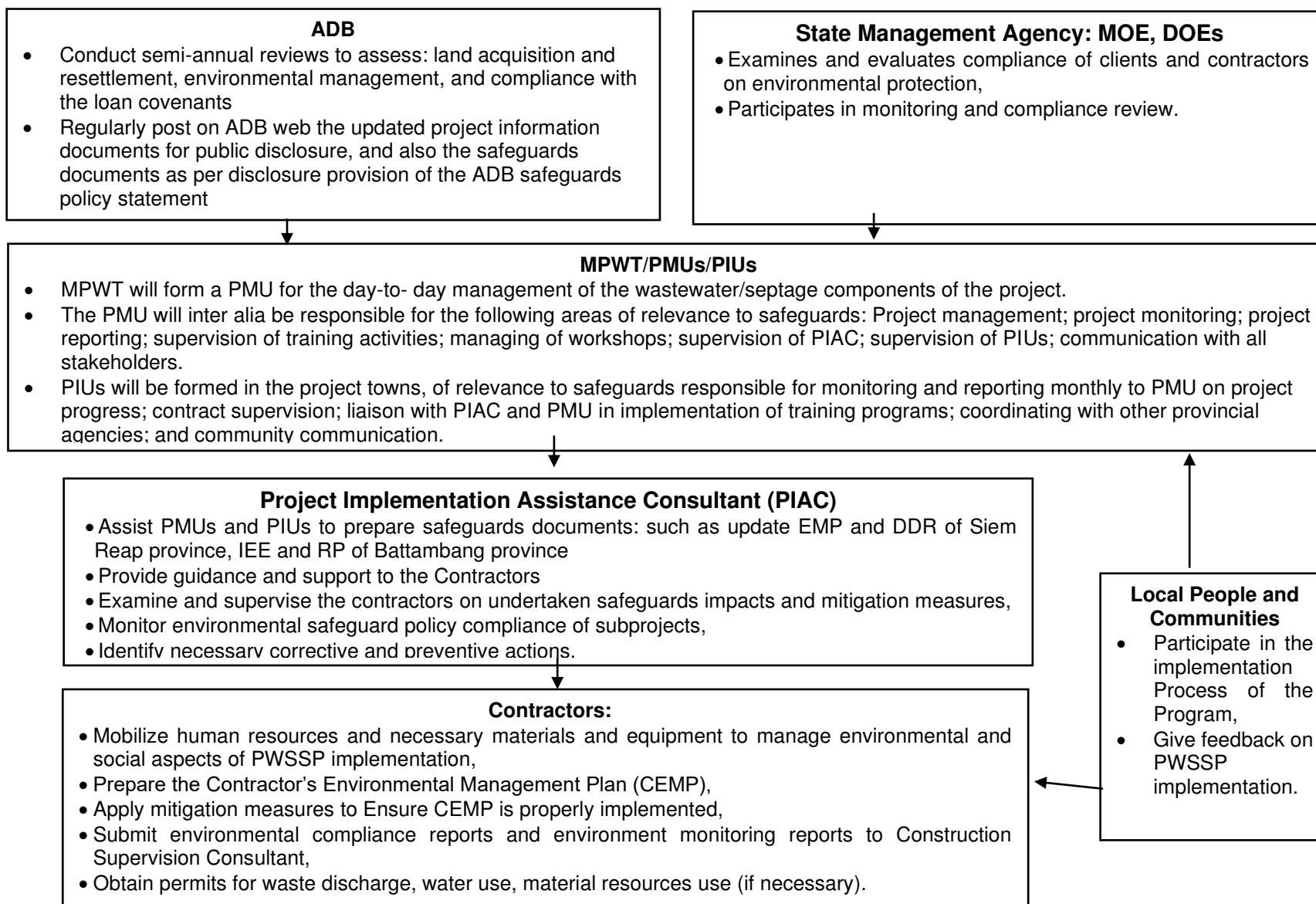


Figure 2: Institutional Arrangement for PWSSP, Safeguards Management

SECTION TWO: SUBPROJECTS MONITORING REPORT

The Wastewater Subproject in Siem Reap province is the only subproject currently under construction. This section describes the implementation processes and progress of the preparation EMP/CEMP of the compliance issues arisen and actions undertaken regarding environmental and social safeguards of Siem Reap Subproject as per the ADB SPS and Royal Government of Cambodia policies and standards. As construction activities only commenced in mid-June on the Siem Reap subproject. As there was considerable uncertainty and so lack of effective progress on the other subprojects, it was decided with ADB concurrence that the publication of the first semi-annual report be deferred to the end of 2019. Therefore, this first report covers the period 1 January to 31 December 2019.

II. Siem Reap subproject

2.1. Subproject Overview

2.1.1. Introduction

22. Siem Reap Wastewater Project is replacing and upgrading a 3.7km length of a failed main trunk sewer from the intersection of NR6 Highway (the national highway) and Sivatha Street to the Siem Reap sewage pumping station. The subproject location is shown in Figure 3.



Figure 3: Location Map of Alignment of the Interceptor Sewer in Siem Reap Town

23. Overview of the subproject is depicted as the following table.

Table 4: Project Overview

Project	Provincial Water Supply and Sanitation Project (PWSSP) – Siem Reap Subproject	
Subproject	Wastewater in Siem Reap Province	
Safeguards Category	Environment	B
	Indigenous Peoples	C
	Involuntary Resettlement	C
Key sub-project activities:	<ul style="list-style-type: none"> • Progress of Work (73% civil works and construction) • Status of Safeguard Approvals/Permits/Consents: Updates of EMP and DDR submitted to ADB in January 2020; • Conducted public consultations/meeting with affected people and relevant organizations/agencies; • Established GRC and operational GRM • Site observation and monitoring on-going • Safeguards Training (every 3 months, refer Appendix 5) • Semi-annual report 	

24. The Contractor³ has been awarded Contract No. MPWT/PWSSP/ICB/CW01 dated 12 November 2018 for design, supply and installation of replacement interceptor sewer in Siem Reap.

25. Main works of the subproject include (i) excavation working shafts, (ii) pipeline jacking and installations, (iii) construct inspection manholes, and (iv) resealing road. The scope of works are depicted as the following table.

Table 5: Scope of Works

Item	Content	unit	Quantity
I	Installation and other services		
1	DN 1000 Ductile Cast Iron Pine	Km	3.7
II	Civil and construction works		
1	Inspection holes	Pc	37
2	Working shaft	Pc	38

2.1.2. Subproject Construction Status

26. By the end of December, the progress of the physical works is expected to reach overall 73 percent, which ahead of the 60 percent elapsed time since the effective date of 9 April 2019.

27. Progress with installation of the pipes has increased due to better weather and ground conditions. The following table depicts physical progress of the subproject

Table 6: Progress of the subproject

Item	Cumulative to Date	Contract Target
Pipelines installed	2,015 m	3,700 m
Working pits excavated	19 pits	37 pits*
New manholes constructed	10 manholes	37 manholes*

* Note that the number of pits was reduced to 27 in the reporting period

³ Beijing Urban Construction Group Co., Ltd (BUCG)

2.2. Safeguard Monitoring Method

28. The environmental and social issues are monitored by (i) reviewing documents (ii) visual observation with checklist and photographs as evidence, and (iii) interview and consultation with affected people and relevant organizations and agencies.

- **Hierarchy of monitoring activities:** The Environment and Social Office (ESO) has been established at the MPWT and is working at overall project level monitoring. The PIU (is involved at subproject level. The Consultant is monitoring through direct observations on site and review of Contractor's reporting.
- **Review documents:** Checking and reviewing the recorded environmental monitoring checklist and related documents such as approved CEMP, weekly and monthly reports to obtain correct information on implementation of mitigation measures proposed and timely find out any the gap need to be improved; Checking and reviewing GRM and recorded grievances and timeliness and effectiveness of responses.
- **Fieldwork and Observation:** Daily by the Site Engineer who reports on a weekly basis, and monthly by the Environmental and Social/Resettlement Specialists. The site is visited during construction working hours and checklists of environmental issues are used to evaluate the level of compliance with environmental mitigation requirements. The Contractor has appointed his own focal point for community engagement who is conducting daily monitoring of construction sites. Observations will also include:
 - Noting and taking photographs as evidence of environmental impacts caused by construction activities or non-compliances observed;
 - Discussion with the Contractor on reasons for observed impacts and/or non-compliances.
- **Consultation:** The Site Engineer and Environmental and Social/Resettlement Specialists. conduct ad hoc and house to house consultations, open discussions and/or meetings with the people making business along the subproject alignment and affected people and relevant agencies to identify the negative impacts caused by the construction activities, propose corrective actions and mitigation measures and obtain the concurrence of the local people and community regarding the expected outputs and outcomes of the subproject.

2.3. Environmental Safeguard Monitoring

2.3.1. Procedural Environmental Safeguard Requirements

29. **Updated EMP:** The EMP of Siem Reap Subproject has been updated by PIAC team based on the detailed design. The main updates are (i) Detailed description of civil works of the subproject, (ii) revision of the impacts of the subproject, (iii) revised Environmental Management Plan. The updated EMP has been submitted to ADB for review and comments in January 2020.

30. **Review and Approval CEMP:** In accordance with the Civil Works Contract, the Contractor has prepared a Contractor's Environmental Management Plan (CEMP), which includes"

- Introduction: (i) General information, (ii) Legal Framework, and (iii) Brief description scope of works;
- Organization and Reporting Procedures: (i) Organization and Staffing, and (ii) Reporting Procedures;
- Environmental Control Plans: (i) Workforce and site management plan, (ii) Construction impact management plan, (iii) Waste management plan, (iv) Materials handling, use and storage management plan, (v) Ecological management plan, (vi) Safety management plan,

(vii) Emergency plan, (viii) Community relations and health management, (ix) Environmental monitoring program.

31. The Contractors had submitted the draft CEMP to the PIAC for review and comments to ensure compliance with the contractual requirements. The CEMP has been approved by PIAC in May 2019 after revised based on comments provided by PIAC.

32. **Guideline documents of Environmental safeguards monitoring:** PIAC has worked on the preparation of a guideline document for environmental safeguards monitoring aiming to develop a uniform framework for monitoring activities effectively. The document aims to address the requirements regarding environmental safeguards of the subproject, procedures on environmental safeguards monitoring, and templates for monitoring and reporting. In this respect, it is planned to introduce:

- Environmental Safeguards Requirements (ADB and Government of Cambodia);
- Methodology for Implementation of Environmental Supervision and Compliance;
- Appendixes; Template/Forms for Contractors.

33. The PWSSP complies with ADB safeguards policy and regulations Royal Government of Cambodia as follows:

Table 7: Project Compliance with ADB Safeguards and Government's Regulations

Item	Requirement	Current Status	Remark
I	Subproject Preparation Stage		
1	Based on the subproject impacts and risks, the subproject has been assessed to belong to category B. An Initial Environmental Examination (IEE) has to be prepared	The IEE report has been prepared. Subproject is Design-build with DED conducted by Contractor. Scope has not changed since PPTA stage.	Submitted to ADB in 2017
2	Updated EMP	EMP of the subproject is under review	submitted to ADB in January 2020
II	Bidding and Contract		
3	Inclusion of the safeguard requirements in the bidding documents	The safeguards provisions have been included in the bidding documents	
4	Incorporated the relevant provisions from the EMP into the Works' contracts	The safeguards provisions are included in the Civil Works Contract	
5	Available budget for all such environmental and social measures	A budget for social and environmental implementation and monitoring was allocated in the Civil Works Contract	Bill of Quantities under SRP civil work contract included budget for environmental and social mitigation measures and funds are being adequately utilized
III	Construction Stage		
6	Compliance with Government's Regulations	Notice to Proceed was issued 1 April 2019	
7	Reporting: Semi-annual Safeguard Monitoring Report	First report prepared in January 2020	This report will be uploaded at ADB's Website
8	A written notice of any unanticipated environmental risk	There was no major environmental risk during construction phase	
9	Applicable laws and regulations related to environment, health and safety	All related laws and regulations were applied during the construction	Contractor Focal: Ms. Laing

Item	Requirement	Current Status	Remark
		phase	Lenghieng 098 213 575
10	Environmental Safeguards Training	<ul style="list-style-type: none"> Safeguards Training (every 3 month) 	

2.3.2 Status of EMP Implementation (Mitigation Measures)

34. The main environmental issues during construction phase of the subproject were identified during the EMP updated as following:

• Pre-construction:

- Temporary land use: Land for material storage areas and worker camps and casting yards. This land is used during construction time and then restored and returned to its owners. Agreements with the PIU have been concluded. Land has been rented from a private person.
- Threat to Public safety, injured worker or public: Traffic disruption and risks for pedestrians having to go through construction zones due to lack of space on the roads, disturbed ground surfaces and excavations, operation of machinery and construction activities. Roadside furniture, warning systems and lighting will be temporarily removed and restored later.

• Construction phase

- Air quality and dust emissions: Dust from excavation and backfilling, material and spoils transportation and exhaust fumes
- Construction noise and vibration: Noise and vibration from construction, transportation and noise from casting yards,
- Spoils generation and solid wastes: Domestic waste from worker camp
- Pollution due to spills of fuel and other hazardous substances
- Water quality
- Traffic congestion and road safety
- The risks of occupational and community health and safety due to construction works
- Impact on Ecosystems

• Operation phase

- Risk of failure or defects causing release of effluent from the pipe
- Pollution of groundwater, land, or surface waters from leachate from the pipes
- Operator occupational health and safety and community health and safety hazards

35. During this monitoring period, the contractor has applied measurements in construction phase to meet the requirements set forth in the EMP and CEMP as described in the following table.

Table 8: Compliance with EMP and CEMP Requirements (Environmental Performance)

EMP Requirements	Compliance Status	Comment or Reasons for Non-Compliance	Issues for Further Action
Air quality and dust emissions			
Dust suppression by water spraying	Partial	The contractor has not mobilised enough equipment for dust control, including in some sensitive sections of the schools and pagodas	Contractor has implemented corrective actions and, prepared a detailed working schedule and mobilized additional human resource and equipment for dust control

EMP Requirements	Compliance Status	Comment or Reasons for Non-Compliance	Issues for Further Action
Dump trucks transporting raw materials to and from the site shall be covered by tarpaulins, or other acceptable types of cover	yes		None
Position any stationary emission sources (e.g., portable diesel generators, compressors, etc.) about 100m far from sensitive receptors including school and residential area	Partial	Some construction areas are less than 100m from residential areas	Contractor has started using grid electricity instead of generator to comply with the requirement
Conduct periodic checking of all equipment and machinery on site and make all necessary corrections and/or repair	Yes		None
Provides sufficient personal safety devices such as face mask, gloves and protective clothes to protect workers	Partial	PPEs not fully provided to the workers	Contractor requested to provide PPEs to the workers and staff working on sites by January 2020
Daily cleaning of road surfaces of debris/spills from construction equipment, haulage trucks and vehicles	yes		None
Daily visual inspections to identify and address potential areas of dust and odor emissions	yes		None
Construction noise and vibration			
Use only vehicles and equipment that are registered and have necessary permits	yes		None
Erection of temporary wall around the construction sites material storage area	Yes		None
Machines which generate the noise level of over >55 dBA at night (from 22:00 to 6:00) is strictly prohibited along section	Yes		None
Spoils generation			
Spoil disposal will only be to local authorities approved areas	Yes		None
Trucks transporting spoils shall be tightly covered with tarpaulin or other suitable materials to minimize dust emission and spills	Yes		None
Road surfaces shall be regularly cleaned of spilled spoils	Yes		None
Generation of solid wastes			
Provide garbage bins and facilities within the project sites for temporary storage of construction waste and domestic solid waste	Partial	Not enough bins provided	Contractor to review the construction site and contractor offices and provide adequate garbage bins by January 2020
Separate solid waste into hazardous, non-hazardous and reusable waste streams and store temporarily on site in secure facilities with weatherproof	Partial	Hazardous and non-hazardous waste not properly separated.	Contractor to train their staff regarding separated waste and provide enough bins for

EMP Requirements	Compliance Status	Comment or Reasons for Non-Compliance	Issues for Further Action
flooring and roofing, security fencing and access control and drainage/ wastewater collection systems			waste storage by January 2020
Ensure that wastes are not haphazardly dumped within the project site and adjacent areas	Yes		None
Undertake regular collection and disposal of wastes to sites approved by local authorities	Yes		None
Pollution due to spills of fuel and other hazardous substances			
Store fuel and hazardous substances in paved areas with embankment. If spills or leaks do occur, undertake immediate clean up	Partial	Hazardous waste is not properly stored in an area with concrete foundation	Contractor shall store hazardous material in paved area by January 2020
Ensure availability of spill clean-up materials (e.g., absorbent pads, etc.) specifically designed for petroleum products and other hazardous substances where such materials are being stored	Partial	Spill clean-up materials are not fully available on sites	Contractor follow schedule to store the necessary material on sites by January 2020
Train relevant construction personnel in handling of fuels and spill control procedures	yes		None
Ensure all storage containers are in good condition with proper labelling	yes		None
Store hazardous materials above flood level	yes		None
Discharge of oil contaminated water shall be prohibited	Yes		None
Water quality			
Runoff water from material storage areas: The casting yard will construct bunds around and direct all runoff to stilling basins before release into the environment through a silt fence	Partial	Spill control not fully implemented on site	Contractor follow schedule to store the necessary material on sites by January 2020
Provide adequate facilities in the site including latrines, holding areas and garbage cans. Waste from latrines will be collected and treated properly through an economic contract with local environmental co-operatives/companies	Yes		None
Disposal of solid wastes into canals, stream, other watercourses, agricultural field and public areas shall be prohibited	Yes		None
Traffic congestion and road safety			
The contractor prepare a traffic management plan and strictly implement approved the plan	Yes		None
Provide advance notification to the community regarding works schedule,	Yes		None

EMP Requirements	Compliance Status	Comment or Reasons for Non-Compliance	Issues for Further Action
changes to public transport facilities or routes			
Provide warning signs indicating the works with 500m distance from worksite and at the work pits	Yes		None
Implement suitable safety measures to minimize risk of adverse interactions between construction works and traffic flows through provision of temporary signals or flag controls, adequate lighting, fencing, signage and road diversions	Yes	Lack of signals or flag controls, adequate lighting, fencing, signage and road diversions in some area	Provide temporary signals or flag controls, adequate lighting, fencing, signage and road diversions where needed by January 2020 Assign staff to control traffic in the peak hours by January 2020
Regularly monitor traffic conditions along access roads to ensure that project vehicles are not causing congestion	Yes		None
The risks of occupational and community health and safety due to construction works			
Implement precautions to ensure that objects (e.g., equipment, tool, debris, pre-cast sections, etc.) do not fall onto or hit people, vehicle, and properties in adjoining areas	Yes		None
When installing, using and repairing electric equipment and electric system at the site, the regulation in "Safety power using in construction"	Yes		None
Electrician as well as electric device operator must be trained and examined to get qualified certificate on electricity safety technique	Yes		None
Conduct orientation for all workers on safety and environmental hygiene	Yes		Regularly conduct necessary training to staff and workers by January 2020
Provide first aid kits that are readily accessible by workers	Yes		None
Provide appropriate personnel safety equipment such as safety boots, helmets, gloves, protective clothes, breathing mask, goggles, and ear protection	Partial	PPE not fully provided to workers on sites	Fully equip staff and workers with PPE by January 2020
Screen all persons to be engaged on the project for HIV/AIDS as part of the induction of personnel to be engaged	Yes		None
Implement a HIV/AIDS awareness program as part of the occupational health and safety training provided to personnel on the project	Yes		None

EMP Requirements	Compliance Status	Comment or Reasons for Non-Compliance	Issues for Further Action
Ecosystem			
Fauna: Undertake only the necessary clearing inside or outside the permanent way for the purpose of construction, operation or supply of materials to the road	Yes		None
Impact on local occupation and income			
Selecting the reasonable working time, when the construction is passing through sensitive areas such as: market, restaurant, hospital, and school. Should be not constructed in (peak hours or more activities).	Yes		None
Try to open or keep access way to markets, guesthouses, restaurants to reduce disturbance	Yes		None
Try to finish construction works as soon as the construction work can do, when sections are blocked	Yes		None
Provide construction works to local people, especially affected people	Yes		None

Table 9: EMP Issues for Further Action in this Reporting Period

Issue	Required Action	Responsibility and Timing	Resolution
Construction materials have been stored in illegal places - the public land, near canal	Materials shall be stored in accepted and permitted areas	Contractor, January 2020	
The contractor has not mobilised enough equipment for dust control, including in some sensitive sections	Contractor has implemented corrective actions and, prepared a detailed working schedule and mobilized additional human resource and equipment for dust control	Contractor, January 2020	
Some construction areas requiring power supply are less than 100m from residential areas	Contractor to use grid electricity instead of generator to comply with the requirement	Contractor, already resolved	Resolved
PPEs not fully provided to the workers	Contractor to provide PPE to staff	Contractor, immediately and no later than January 2020	
Not enough waste bins	Contractor to provide adequate number of waste bins	Contractor, January 2020	
Hazardous and non-hazardous waste not properly separated.	Contractor to train their staff regarding separated waste and	Contractor, January 2020	

Issue	Required Action	Responsibility and Timing	Resolution
	provide enough bins for waste storage		
Hazardous waste is not properly stored in an area with concrete foundation	Contractor shall store hazardous material in paved area	Contractor, January 2020	
Spill clean-up materials are not fully available on sites	Contractor follow schedule to store the necessary material on sites	Contractor, January 2020	
Enhance safe conditions at construction sites <ul style="list-style-type: none"> - Lack of signals, flags and flagmen in some areas - 	Provide safety sign for site construction done and waiting backfill cover, Provide sufficient traffic signs wherever lack for traffic control and management Ensure staff for traffic control during the rush hours	Contractor, January 2020	

2.4 Social Safeguards Monitoring

2.4.1. Screening, Categorization, and Documentation

36. The Siem Reap subproject is classified as category C in the RF (para 54-55) prepared at the PPTA stage. The DDR has been updated and submitted January 2020 as required after completion of the DED. The updated DDR confirms the findings at the PPTA stage. The subproject does not require land acquisition for construction either from public entities or from private owners. The subproject does not affect either primary or secondary structures, trees or land use. Temporary impact of road access, walkways and drive-ways impacted by the construction are reinstated by the Contractor. Involuntary resettlement and Indigenous Peoples of the subproject fall in the category C as per ADB SPS (2009).

2.4.2 Anticipated, Actual, and Mitigated Social Impacts

37. The project is expected to have positive social impacts as it will provide improved access to basic service of wastewater treatment and drainage, leading into reduction of environmental pollution in the waterbodies and residential areas, reducing localized flooding, and improving the overall condition of the road.

38. As identified in the RF, the subproject may result in temporary heavy traffic and longer travel times due to the construction of manholes and working pits.

39. Following the preparation of the DED, joint site visits and review of design including drawings have been undertaken by the Contractor, Site Engineer, and National Social Safeguards / Resettlement Expert. It was established that based on the location of working pits and manholes as included in the DED, six pits were located either at a particularly narrow section of the road or where a shop front was located very close to the proposed manhole / working pit. A total of nine businesses were located close to these six proposed pits. Two of these pits were located at a section of the road with a road width of 4.5-5 meters and four of these pits at a section of the road with a width of 10-12 meters. To mitigate the impacts to these businesses, the following actions were taken: (a) The two pits at the narrow section of the road was cancelled; (b) The four pits located close to the shop fronts

were moved between 1.5 to 5 meters either along the road or away from the shopfront to ensure adequate access for the businesses during construction. Variations to the DED on these matters were thus agreed upon to avoid the impact to the businesses at the narrow section of the road and to limit the impacts at the wider section of the road to temporary heavy traffic due to the construction of manholes and working pits. Additional traffic management measures were agreed with the Contractor, including preparation and implementation of Traffic Management Plan and maintaining uninterrupted access by always keeping at least one lane open.

2.4.3. Social Monitoring Activities and Compliance

40. The PIAC's Social Safeguard Specialist conducted monitoring and evaluation of social impact and any complaints over the subproject on a monthly basis. Site visits have been undertaken with the following targets:

- Site observation and screening for social impact at construction sites
- Interview the local people living along the subproject alignment regarding the impacts of subproject during the construction phase.
- Consultation with residents/households who are living close to the construction sites and may directly impact by the subproject's activities.
- Discussion with PIU and contractor about social impact.
- Discussion with site engineer about construction progress and social impact

41. In general, the findings of the consultations, public meetings, discussions and interviews with the affected people and relevant stakeholders are that they understand the entitlements for compensation and how and where to complain in case of grievances caused by the sub-project during the construction period.

42. The following table show the compliance with social safeguard requirements.

Table 10: Compliance with Social Safeguards Requirements

No.	Item	Status (Ready/Not ready/ N/A)	Follow up required (Y/N)	Remark
1	Safeguards monitoring included in the project progress report	Ready	Yes	Every monthly monitoring report
2	Updated DDR prepared and submitted	Ready	Yes	Update January 2020
3	Project's Grievance Redress Committee established	Ready (Provincial Level)	Yes	Established on 18 th November 2019
4	Project's Grievance Redress Mechanism explained to households	Ready	Yes	Explained in detail during the public consultation meetings
5	Public consultation meeting	Ready	Yes	PPTA (1 time) DED (1 time) 2 times during project implementation

6	Consultation and Face to Face interview with residential and business owner	Ready (risk up by national consultant)	Yes	Before starting until to finish construction
7	Customer Perception Review	Ready	Yes	For narrow road before construction
8	Safeguards Training, incl. on HIV/AIDS, Road Safety, Site Safety, Gender	Ready	Yes	Provided every 3 months

43. The social safeguard monitoring checklist is shown in the following table

Table 11: Detail of Safeguards Monitoring Checklist

Item No.	Safeguards Related Requirements	Status (Ready/Not Ready/N/A)	Completion Deadline	Progress to Date/Remarks
Updating of DDR base on detail design				
1.1	Update DDR <ul style="list-style-type: none"> January 2020 	Ready	Submitted	
1.2	Compensation	N/A (Category C)		No land acquisition required. No structures affected. The construction on existing of road as belong to govt. No IR impact in this project.
1.3	Disclose final/updated DDR <ul style="list-style-type: none"> In ADB website In EA's website 	After approval from ADB		
1.4	<ul style="list-style-type: none"> Disclose project activities to community Public consultation Detail GRC and GRM Distribution PIBs Inform information before construction start Social Impact follow up 	Ready	Submitted	
15	Grievance redress records <ul style="list-style-type: none"> List and number of grievances received Number of resolved issues Number of cases under GRC review Outstanding cases (filed to court)_ 	Ready		Complaints are so far received verbally on the street or by phone (rather than as written formal complaints) Although the complaints are recorded this is without noting name or address

44. The following table show the compliance with the resettlement requirements

Table 12: Summary of compliance with Resettlement Requirements

Requirement	Compliance status Yes/No/Partial	Comment or Reason for Compliance, Partial Compliance/Non-Compliance	Issues for Further Action
Establishment of personnel in PMU/PIU	Yes	Complied	
Public consultation and socialization process	Yes	Complied Public consultation participation activities carried out in project Conducted prior to and during construction, and during semi-annual monitoring	Continued monitoring to ensure people are aware of the GRM and entitlements.
Land areas to be acquired	Yes	No land acquisition required. The construction on existing of road as belong to govt.	
Temporary land use (affected properties restored to at least pre-project conditions)	Yes	There is temporary land use by the Contractor for storage facility, material storage, and casting yard. Agreements have been concluded between the PIU and the Contractor for storage at the Siem Reap Wastewater Treatment Plant and at the Pump Station. In addition, the Contractor has rented private land and concluded a 1-year rental agreement.	Confirmation of restoration after completion and use of temporary land use agreements
Temporary disturbance mitigated (driveways and pavement reinstated, traffic managed)	Yes	Provisions for reinstatement of any damage to driveways or pavement along the road are included in the EMP and is responsibility of the Contractor. Provision for traffic management plan is included in the EMP (Refer environmental monitoring)	Reinstatements to be verified and confirmed acceptable
Capacity building and training activities	Yes	Capacity building activities have been carried for Social Safeguards, ADB Policy and GDR SOP to contractor and PIU. Training proposed includes general training to PIUs, Site engineer, Contractor, Relevant Stakeholder and community on topics of: <ul style="list-style-type: none"> • Safeguards training • HIV-AID training • Site Safety training • Gender training • Traffic management training 	

Table 13: Social Safeguards Issues for Further Action in this Reporting Period

Issue	Required Action	Responsibility and Timing	Resolution
Grievance Redress Record is not recording name, address, specific date, location, and contact details of complainants	Grievance record need specify at least date and location and unless the complainant wishes to be with anonymous name, address, and contact details	PIU, January 2020	
Confirmation of restoration after completion and use of temporary land use agreements	Ongoing monitoring of temporary land use agreements	PIU, ongoing	
Reinstatements to be verified and confirmed as acceptable	Verification of reinstatement, ongoing consultations to ensure reinstatement is acceptable	PIU, ongoing	
Continued monitoring to ensure people are aware of the GRM and entitlements.	Ongoing consultations to ensure people are aware of the GRM and entitlements.	PIU, ongoing	

2.5 Public Consultation, Information Disclosure, Capability Building

45. Public consultations with affected households and relevant stakeholders and community have been carried out in line with the requirements of the subproject. Subproject's information including project alignment, resettlement framework, entitlement for compensation, grievance redress committee and mechanism had been provided in the discussions and consultation meetings held with Svay Dangkom commune authority, relevant department stakeholders and villagers before and during the construction phase. Minute of Meetings/consultations are attached in Appendix 3.

Table 14: Consultation and Public Consultation Meeting from May to December 2019

No.	Date	Consultation	Participants		Consultant
1	28 May 2019	House to house Consultation	Local authority	18 / F2	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
2	29 May 2019	House to house Consultation	Business owner and residential	12 / F10	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
3	30 May 2019	House to house Consultation	Business owner and residential	13/ F10	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
4	31 May 2019	Public Consultation Meeting	The people along the roadside	33/ F11	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
5	4-7 June 2019	House to house Consultation	Business owner and residential	30 /F25	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
6	10-13 June 2019	House to house Consultation	Business owner and residential	25/F12	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
7	9-10 June 2019	House to house Consultation	Business owner and residential	20/F15	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
8	April 2019	House to house Consultation	Business owner and residential	8/F7	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
9	23-24 September	House to house Consultation	Business owner and residential	15/F8	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
10	03-10 October 2019	House to house Consultation	Business owner and residential	100/F86	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
11	4 October	House to house Consultation	Local authority	8/F6	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
12	23-25 October	House to house Consultation	Business owner and residential	30/F24	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
13	30-31 October	House to house Consultation	Business owner and residential	15/F10	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
14	17-19 December	House to house Consultation	Business owner and residential	85/F65	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact
15	20 December	Public Consultation Meeting	The people along the roadside	24 / F8	Project description, RF, entitlement for compensate, GRC, GRM and Social Impact

Table 15: Summary of Public Consultation with Stakeholder and Relevant Department

No.	Date/Month	Location	No. of Participant	Topic Discussed	Remark
1	29 May 2019	DPWT	8/ F=1	Project description and IR	Screening
2	30 May 2019	EDC SR's office	6/ F=1	Project description and IR	Screening
3	30 May 2019	PDWRM's Office	6/ F=1	Project description and IR	Screening
4	31 May 2019	DPTC's Office	4/ F=0	Project description and IR	Screening
5	31 May 2019	DE's Office	4/ F=0	Project description and IR	Screening
6	23 Sept 2019	PIU office	6/F=2	Project description, IR and Social Impact	Monitoring
7	03 Oct 2019	PIU's Office	6/ F=0	Project description, IR and Social Impact	Monitoring
8	10 Octt 2019	PIU's Office	17/ F=5	Project description, IR and Social Impact	Monitoring
9	24 Oct 2019	PIU's Office	6/ F=2	Project description, IR and Social Impact	Monitoring
10	25 Oct 2019	Provincial Hall	20/ F=6	Social Impact at Narrow Road (MH 09 to MH 12)	Monitoring
11	31 Oct 2019	PIU office	8/F2	Project description, IR and Social Impact	Monitoring
12	18 Dec 2019	PIU office	6/F1	Project description, IR and Social Impact	Monitoring

46. For the construction activities, the contractor and PIU also have informed all residents along the road via letter from provincial authorities and PIB with all project information, including how to file complaints and GRM contact names and numbers. The Contactor is working closely with the relevant stakeholder departments and utility companies to ensure continued operation of underground utilities such as telecommunication, electricity cable, water supply and others.

47. **The key concerns and feedbacks:** The monitoring process included site consultation or discussion with concerned parties such as: PIU, engineers, inspectors, workers, contractor, relevant agencies, affected people are on the project sites, and local authorities. The feedbacks, issues, and comments from consultations are summarized below:

- Collaborate with line agencies, local authorities, and local people to inform on construction locations and schedule, before excavation of manholes and pits.
- Work closely and inform utility companies on conducting site monitoring or survey on manholes.
- Improve traffic safety signs, other safety sign boards, and safety zones include safety patrol on construction sites, especially at manholes.
- Provide watering on construction sites to control dust.
- Need to control localized flooding caused by pumping of water from manholes, which at times can discharge on the road.
- Detour road is narrow and with potholes, hence further road maintenance should be considered.
- Need to speed up the construction progress, so that the road can be restored.

48. All the concerns, suggestions and comments from the residents, local authority, relevant stakeholder department and affected persons near construction sites have been addressed.

2.6. Grievance Redress Mechanism

49. The Grievance Redress Committee (GRC) has been enabled by MPWT. The grievance redress committee (GRC) was established at provincial level on 18 November 2019. The commune level grievance committee is comprised of commune officials and village leaders. The GRC will promptly address affected people's concerns, complaints, and grievances about the Project's environmental performance. Complaints are handled at no costs to the complainant and without fear of retribution. The GRC, which was established before commencement of site works is chaired by PIU-PMU and assisted by the SEO established at the MPWT. The GRC has members from the DPWT-PIU, commune councils, and local organizations. Grievances can be filed in writing or verbally with any member of the GRC. The committee has 15 days to respond with a resolution. If complainant is unsatisfied with the decision, the complainant can elevate the grievance to the next level of GRM.

Table 16: List of GRC members

No.	Name	Position	Telephone
1	Pin Prakod	Vice Governor, Siem Reap province, as President	095-666-678
2	Sok Thol	Director of Administration, Siem Reap province, as Vice President	012-902-299
3	Ky Vavin	Director of Provincial Department of Public Work and Transport, Siem Reap province, as Vice President	012-831-385
4	Khud Vudyarith	Director of Water Supply Authority, Siem Reap province, as member	012-827-474
5	Hen Puthy	Vice Director of Administration of Siem Reap province, as member	012-931-714
6	Nuon Puthyra	City Governor, Siem Reap province, as member	012-981-515
7	Hy Say	Director, Provincial Department of Land Management, Urban Planning and Construction, as member	012-569-798
8	Nuon Krisna	Director, Provincial Department of Water Resource and Meteorology, as member	012-890-133
9	Sok Seyha	Director, Provincial Department of Post and Telecommunication, as member	012-940-683
10	Sun Kong	Director, Provincial Department of Environment, as member	012-755-550
11	Ngov Seng Kak	Director, Provincial Department of Tourism, as member	012-509-008
12	Eung Sophorn	Director, Director of Inter-Sector Provincial Department, as member	011-876-393
13	Hea Hav	Chief of Svay Dangkum commune, as member	092-904-199
14	Hiep Me	Vice-director of DPWT (PIU Chairman)	012 870 830
15	Say Pichenday	Director of Sewage Unit (Vice-Chairman of PIU)	012 851 486
16.	Laing Lenghieng	Contractor Focal Point	098 213 575

50. The Project grievance redress mechanism has effectively been disseminated through public awareness campaigns and PIB. The GRM, the GRC's address and contact numbers were also included as part of the updated PIB. Hard copies of the updated PIB were distributed to the residents and businesses during the public consultation and also face to face consultation with people along the roadside of the project. A hotline for complaints and the hotline information and contact details has been publicized through the PIB, the notice boards outside the construction site, and at local government offices (e.g., provincial, district, commune levels). Locally, affected people are still able to express grievances through the commune councils and these has been referred to PIU/PMU through the existing communication channels.

51. Complaints can be verbally expressed or in written form. In the case of verbal complaints, the committee on grievance at any stage in the GRM process will be responsible to document this during

the first meeting with the complainant and keep this on file. The GRC has received and, followed-up all complaints, disputes or questions. The designated commune officials shall exercise all efforts to settle complainants' issues at the commune level through appropriate community consultation and meetings with complainants. All meetings on the grievance process shall be recorded by concerned level of grievance committee and copies shall be provided to the complainants. A copy of the minutes of meetings and actions undertaken shall be provided to GRC. The GRM and complaints status are summarized and reflected in the semi-annual monitoring reports submitted to ADB.

2.6.1. Record of Incidents

53 As mentioned above, GRM is in place in the subproject and has been explained to community leaders and GRC members. Incidents are recorded and reported. Incident forms are included in the PIB's. The nature and status of incidents occurring during this reporting period are summarised in table below.

Table 17: Complaints received in the reporting period

No.	Type of Grievance	Date and Who	Resolution	Required Action, Responsibility and Timing
1	Reduced accessibility and damaged access road	August 2019 _ Resident and business owner	_ Backfill the broken road _ Open more space the road for easy access _ Traffic Management	Contractor responded and after 2 days complaint resolved
2	Reduced accessibility and slippery access road	August 2019 _ Business Owner _ Traveler	Open more space for access road Backfill with stone on the slippery area during raining season traffic management for slippery road/section	Contractor responded to Business owner After 1 day complaint resolved Traveler After 3 days complaint resolved
3	Broken road and difficult access	August 2019 _ Traveler and villager	- Backfill the broken road with soil at broken road	Contractor responded and after 5 days complaint resolved
4	Backfill without compaction on the access road	September 2019 _ Villager	_ back to compact again on the access road	Contractor responded after 2 days complaint resolved
5	Remove water truck parking in front of shop	September 2019 _ Business owner	Water truck removed	Contractor responded after 1 day complaint resolved
6	Remove construction site from in front of restaurant	November 2019 _ Business owner	Working pit moved in agreement between Contractor and PIU to allow access to the restaurant as requested	Contractor agree to suggestion after discussion
7	Traffic jam in front of business located at the narrow section of the road	December 2019 _ Business owner	_ Allow bigger space for access road _ Traffic Management _ Push working schedule construction	Contractor responded and after 2 days the complaint was resolved
8	Traffic jam in front of business located at the narrow section of the road	December 2019 _ Business owner	Allow bigger space for access road Traffic Management	Contractor responded after 2 days complaint resolved

			Push construction work schedule	
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2.7. Summary and Conclusions

52. By monitoring, observation and interview/consultation with the affected people, main findings in this monitoring period are as follows:

- **Traffic management:** The Contractor prepared a traffic management plan and applied measurements to manage traffic flow. At the narrow section of the road there have been some difficulties for vehicles and pedestrians. Construction materials were sometimes placed on the roadway and/or road edge and there were a lack of warning signs and safety signs, and not clear road detour directions. The Contractor was instructed to improve safety conditions, particularly in nighttime by providing sufficient safety devices, warning signs and arrangement enough staff for traffic control.
- **Safety:** The Contractor has provided PPEs to their staff and workers, however, it was not sufficient for all workers on the sites. Moreover, the awareness in safety issues, especially amongst unskilled workers is not good. The Contractor has been instructed to immediately provide PPEs to everyone and regularly conduct trainings regarding to safety, environmental and hygienic including HIV/AIDS protection.
- **Local Business and households:** Business and households living along the project alignment experience nuisances from construction activities, including noise, dust, and traffic jam. However, they are supporting the project implementation due to these impacts viewed as not significant and occur over a short period of time. The businesses requested that the Contractor ensure assess road to the houses and businesses in more places for increased convenience, reducing dust by water spraying, and speeding up construction of works.

53. Other mitigation measures required implemented by the Contractor in the reporting period include:

- Regularly implement plan for checking and maintenance of construction machines/equipment to mitigate air emissions. The construction equipment shall be permitted from MPWT.
- Monitor sensitive receptors at construction sections and provide temporary and safe access especially to schools, health centers, markets, and businesses.
- Regularly spray water at construction sites to control dust during the dry days.
- Separately secure and store hazardous and non-hazardous water in safety containers until those are transported and disposed to licensed local dumping sites.

54. The DDR for the subproject has been updated with the conclusion that the Involuntary Resettlement (IR) Category of the subproject is C as there are no adverse impacts on private households and communal/governmental assets impacted are already available for the subproject. A customer perception review (CPR) was conducted in October 2019 to identify concerns, comments, and suggestions with respect to the sub-project implementation before the start of construction at the narrow road section. The findings of the CPR were used to prepare a plan to minimize and avoid the impacts prior to the start of construction in the narrow section. The plan was prepared in discussion with the contractor and a presented to the provincial governor. The Contractor use appropriate measures to minimize disturbances to the community. The Contractor, Site Engineer, and the Social Safeguards and Resettlement Specialist are monitoring the situation closely to ensure temporary disturbances do not evolve into impacts. The following social and environmental safeguard activities are to be implemented under the Siem Reap wastewater subproject during the remainder of the construction phase:

- 1) Update PIB with GRC contacts: include EM (from RF), complaint form and log-book (translated into Khmer)
- 2) Organize refresher training to all contact persons listed in PIB for GRC on: project GRM, entitlements, complaint forms, log books, record taking and timely addressing of all complaints
- 3) Conduct consultation with HHs, including follow-up customer perception review, distribute updated PIBs and re-explain: EM, GRM, complaints-form and log book. Update HHs on project progress and timeline for construction including trench stabilization and road resealing
- 4) Consult individually all complainants: review complaints, scope of the impact, location of HHs, impact losses if any (against tax records etc.) and preferred mitigation measure / compensation as per RF/EM/EMP
- 5) Update/Prepare corrective action plan (CAP), including details of the public consultation, individual complaints and action plan and budget for compensation, if required.
- 6) Obtain ADB approval for CAP
- 7) Implement CAP
- 8) Include results of CAP implementation in the next semi-annual report

2.7.1. Issues Requiring Action

55. The issues requiring action as identified in this reporting period are summarized in the tables below. The first table indicate issues that were addressed in the monitoring period, while the second table indicate issues that are required addressed or followed-up in the coming monitoring period.

Table 18: Issues Requiring Action Raised and Addressed in the Current Monitoring Period

No.	Issue	Action
1	Traffic jam in peak hours in morning and afternoon	The contractor has provided more signage and detours and arrange flagman at the places to divert the traffic flow and reduce number of vehicles pass through the construction area.
2	Safe condition at the construction areas (working pits and shafts), particularly at nighttime.	The construction areas have been fenced around to prevent illegal entrance and separate with public area. Night lighting, signage and road diversions also provided for warning vehicles and pedestrians.
3	Residual slurry/water from jacking process discharged back to septage/drainage canal	Slurry/water recycled back into the jacking system. No direct pumping of water to the drainage canal. Regular visual monitoring of canal water level and colour, timely propose appropriately corrective actions.
4	Dust, noise and vibration cause nuisances for local people	The contractor has worked with PIU and PIAC and agreed an appropriate construction method which reduces noise and vibration generated, incl. use of grid electricity instead of generator. Contractor has implemented corrective actions and, prepared a detailed working schedule and mobilized additional human resource and equipment for dust control, incl. Use of water spray to reduce dust emission and cleaning up assess road and construction sites after working hours.
5	Accessibility issues due to traffic congestion	PIAC and the contractor regularly consults with residents and businesses in the project area regarding potential impacts of the construction activities.

Table 19: Issues Requiring Action/Monitored in the Coming Monitoring Period

No.	Issue	Action
1	Grievance Redress Record is not noting name, address, specific date, location, and contact details of complainant	Grievance record to specify at least date and location and unless the complainant wishes to be anonymous name, address, and contact details Organize refresher training to all contact persons listed in PIB for GRC on: project GRM, entitlements, complaint forms, log books, record taking and timely addressing of all complaints
2	Confirmation of restoration after completion and use of temporary land use agreements	Ongoing monitoring of temporary land use agreements
3	Reinstatements to be verified and confirmed acceptable	Verification of reinstatement, ongoing consultations to ensure reinstatement is acceptable
4	Ensure people are aware of the GRM and entitlements.	Update PIB with GRC contacts: include EM (from RF), complaint form and log-book (translated into Khmer) Conduct consultation with HHs, including follow-up customer perception review, distribute updated PIBs and re-explain: EM, GRM, complaints-form and log book. Update HHs on project progress and timeline for construction including trench stabilization and road resealing Consult individually all complainants: review complaints, scope of the impact, location of HHs, impact losses if any (against tax records etc.) and preferred mitigation measure / compensation as per RF/EM/EMP

III. Appendices

Appendix 1: Status of Compliance with Loan Covenants

Schedule	Para No.	Covenant	Remarks/Issues (Status of Compliance)
Schedule 4	Para No. 8	<p>Conditions for Award of Contract</p> <p>The Borrower through MIH and MPWT shall not award any Works contract which involves environmental impacts until:</p> <p>(a) the final approval of IEE has been provided; and</p> <p>(b) relevant provisions from the EMP into the Works contract have been incorporated</p>	<p>Siem Reap Province:</p> <p>Contract with contractor includes updated EMP from August 2018. EMP updated to consider DED in January 2020</p> <p>Other subprojects: Being Complied with</p>
Schedule 4	Para No. 9	<p>Borrower through MIH and MPWT shall not award any Works contract which involuntary resettlement impacts, until the final RP based on the Project's detailed design has been prepared and submitted to, and cleared by ADB</p>	<p>Being Complied with. DDR for Siem Reap not cleared prior to onset of construction</p>
Schedule 5	Para No. 2	<p>Environment</p> <p>The Borrower shall cause the EA and IA to ensure that the preparation, design, construction, implementation and decommissioning of the Project and all Project facilities comply with (a) all application laws and regulations of the Borrower relating to environments, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p>Being Complied with</p>
Schedule 5	Para No. 3	<p>Land Acquisition and Involuntary Resettlement. The Borrower shall 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</p> <p>a. All applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement</p>	<p>Being Complied with</p>

		<ul style="list-style-type: none"> b. The Involuntary Resettlement Safeguards and c. All measures and requirements set forth in the RP, and any corrective or preventative actions set forth in the Safeguards Monitoring Report 	
Schedule 5	Para No. 4	<p>Without limiting the application of the Involuntary Resettlement Safeguards or the RP, the Borrower shall ensure that no physical or economic displacement take place in connection with the Project until;</p> <ul style="list-style-type: none"> d. Compensation and other entitlements have been provided to affected people in accordance with the RP; and e. A comprehensive income and livelihood restoration program has been established in accordance with the RP 	Being Complied with
Schedule 5	Para No. 5	<p>Indigenous Peoples</p> <p>The Borrower shall ensure that the Project does not have any indigenous people impacts, all within the meaning of ADB's SPS. In the event that the Project does have any such impact, the Borrower shall take all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and with ADB's SPS .</p>	Being Complied with
Schedule 5	Para No. 6	<p>Human and Financial Resource to Implement Safeguards Requirements</p> <p>The Borrower shall make available to the EA and IA necessary budgetary and human resource to full implement the EMP and the RP.</p>	Being Complied with
Schedule 5	Para No. 7	<p>Safeguards-Related Provision in Bidding Document and Work Contracts</p> <p>The Borrower shall ensure that all bidding document and contracts for works contain provisions that require contractors to</p> <ul style="list-style-type: none"> a. Comply with the measures relevant to the contractor set forth in the IEE, the EMP and the RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative action set forth in a Safeguards Monitoring Report; b. Make available a budget for all such environmental and social measures; c. Provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous people risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP and the PAM; d. Adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and 	Being Complied with

		<p>construction; and;</p> <p>e. Reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>	
Schedule 5	Para No. 8	<p>Safeguards Monitoring and Reporting</p> <p>The Borrower shall cause the following;</p> <p>a. Submission of semiannual Safeguards Monitoring Reports to ADB and disclosure of relevant information from such reports to affected persons promptly upon submission;</p> <p>b. If any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the RP, promptly informing ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>c. Reporting any actual or potential breach of compliance with the measures and requirements set forth in the EMP or the RP promptly after becoming aware of the breach.</p>	Being Complied with
Schedule 5	Para No. 10	<p>Labor Standards, Health and Safety</p> <p>The Borrower shall ensure that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project implementation. The Borrower shall include specific provision in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things:</p> <p>(a) comply with the Borrower' application labor law and regulation and incorporate applicable workplace occupation safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (d) do not restrict the workers from developing a legally permissible means of expressing their grievance and protecting their rights regarding working conditions and terms of employment; and (f) disseminate, or engage appropriate services providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/Aid, to the employee of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.</p>	Being Complied with
Schedule 5	Para No. 11	<p>The Borrower shall cause the EA and IA to strictly monitor compliance with the requirements set forth in paragraph 10 above and provide ADB with regular reports</p>	
Schedule 5	Para No. 12	<p>Gender and Development</p> <p>The Borrower shall cause the EA and IA to ensure</p>	Being Complied with

		<p>that (a) the GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provision for contractors to comply with the measures set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; and (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 include, but not limited to:</p> <p>(a) that extended water supply systems shall benefit around 107,400 women (51% of the population);</p> <p>(b) that the sanitation improvements shall directly benefit around 47,400 women by 2022 51% of the population); and</p> <p>(c) that the replacement of the Siem Reap interceptor sewer shall provide and immediate benefit to around 25,400 people, 50% of whom are women living in the proximity of the pipeline</p>	
Schedule 5	Para No. 15	<p>Grievance Redress Mechanism</p> <p>The Borrower shall ensure that a separate safeguards grievance redress mechanism acceptable to ADB is established in accordance with the provisions of the EMP and the RP at the PMUs, within the timeframes specified in the relevant EMP and RP, to consider safeguards complaints.</p>	Being Complied with

Appendix 2: Provincial Grievance Redress Committee Establishment

KINGDOM OF CAMBODIA NATION RELIGION KING



The Administration of Siem Reap Province

N^o:112/19 សសរ

DECISION ON

THE ESTABLISHMENT OF GRIEVANCE REDRESS COMMITTEE FOR PROVINCIAL WATER SUPPLY AND SANITATION SUBPROJECT

Governor of Siem Reap Provincial Board of Governors

- Saw the Constitution of the Kingdom of Cambodia
- Saw the Royal Decree n^o នស/រកត 0918/925 dated 06th of September 2018 on the appointment of the Royal Government of Cambodia
- Saw the Royal Court n^o នស/រកម 0618/012 dated 28th of June 2018 which promulgating the Law on the organization and functioning of the Council of Ministers
- Saw the Royal Court n^o នស/រកម 0508/017 dated 24th of May 2008 which promulgating the Law on the administration management of municipality, province, city, district
- Saw the Royal Court n^o នស/រកម 0508/018 dated 24th of May 2008 which promulgating the Law on the election of the municipality council, provincial council, city council, district council
- Saw the Royal Decree n^o នស/រកត 1218/1356 dated 06th of December 2018 on the appointment of the Governor of Siem Reap Provincial Board of Governors
- Saw the Royal Decree n^o នស/រកត 0619/760 dated 08th of June 2019 on the recognition of the composition of the Siem Reap provincial council, 3rd mandate
- Saw the Sub-decree n^o 216 អនក្រ.បក dated 14th of December 2009 on the roles, duties and working relations of the Board of Provincial Governors, Board of city governors and board of district governors
- Refer to letter n^o3843 សកអមក. dated 06th of September 2019 of the Ministry of Public Works and Transport

Decision

Article 1

To create a grievance redress committee, for the subproject of construction of sewer pipeline in Siem Reap of Provincial Water Supply and Sanitation Project, composed of:

No.	Name	Position	Telephone
1	Pin Prakod	Vice Governor, Siem Reap province, as President	095-666-678
2	Sok Thol	Director of Administration, Siem Reap province, as Vice President	012-902-299
3	Ky Vavin	Director of Provincial Department of Public Work and Transport, Siem Reap province, as Vice President	012-831-385
4	Khud Vudyarith	Director of Water Supply Authority, Siem Reap province, as member	012-827-474
5	Hen Puthy	Vice Director of Administration of Siem Reap province, as member	012-931-714
6	Nuon Puthyra	City Governor, Siem Reap province, as member	012-981-515
7	Hy Say	Director, Provincial Department of Land Management, Urban Planning and Construction, as member	012-569-798
8	Nuon Krisna	Director, Provincial Department of Water Resource and Meteorology, as member	012-890-133
9	Sok Seyha	Director, Provincial Department of Post and Telecommunication, as member	012-940-683
10	Sun Kong	Director, Provincial Department of Environment, as member	012-755-550
11	Ngov Seng Kak	Director, Provincial Department of Tourism, as member	012-509-008
12	Eung Sophorn	Director, Director of Inter-Sector Provincial Department, as member	011-876-393
13	Hea Hav	Chief of Svay Dangcum district, as member	092-904-199

Article 2

The committee has its role and obligation as following:

- Check/visit the specific areas that affect people within this development project
- Well coordinate between the local authorities and the people
- Handle the complaints and problems from the affected people within this development project
- Perform other tasks assigned/instructed by the provincial management
- Has the right to assign/appoint the subordinate officers as necessary.

Article 3

Any provisions of the Provincial Administration, contrary to this decision shall be abrogated.

Article 4

The Director of provincial administration, provincial department and related units, provincial headquarters, and those whose name listed in the Article 1 are in charge of implementing this Decision in their respective duties from this signatory date.

Siem Reap, November 18, 2019
Siem Reap Provincial Governor
(Signed and stamped)

TE SEIHA

Filing:

- Council of ministers
- Ministry of Interior
- Ministry of Land Management, Urban Planning and Construction
- Ministry of Public Works and Transport
- Ministry of Water Resources and Meteorology
- Provincial council
- As Article 4
- Chronological document

Appendix 3: Consultations and meetings

Attended list of consultations and monitoring with concerned agencies

No	Name	Sex	Institution/Agency	Position
1	Heap Mey	M	DPWT/PIU	Deputy director
2	Eoun Vuthy	M	Telecommunication	Technical staff
3	Kheun Chanthan	M	Water Supply Authority	Deputy chief office
4	Chong Darin	M	CFOCN Company	Director
5	Tit Thearith	M	CFOCN Company	Site Team
6	Ham Sophany	M	Water Supply Authority	Chief office
7	Mao Vannak	M	EDC	Researcher
8	Laing leng Hieng	F	PUCG, Contractor	EHS Officer

Attended list of consultations with residents, businesses, and authority in Svay Dankumg Commune

No	Name	Sex	Institution/Agency	Position
1	Heap Mey	M	DPWT/PIU	Deputy director
2	Yim Chamnan	M	Ramboll-MPWT	Environmental consultant
3	Chan Narith	M	Ramboll-MPWT	Resettlement consultant
4	Har Hav	M	Svay Dankumg Commune	Commune chief
5	Chhay Sarath	F	--	Villager
6	Sok Sokheun	F	--	--
7	Soup Chamreun	M	--	Village member
8	Khoun Mom Pouk	M	--	Deputy village chief
9	Ngor Sruk	M	--	Villager
10	Keang Neag	M	--	--
11	Seung Seum	M	--	--
12	Chay Samnour	M	--	--
13	Meach Charvin	F	--	--
14	Chhun Sambour	F	--	--
15	Ork Sokharavy	F	--	--
16	Som Maly	F	--	--
17	Im Chhang	M	--	--
18	Sok Camreun	M	--	--
19	Lim Sary	M	--	--
20	Nou Hear	F	--	--
21	Heng Kea	M	--	--
22	Haep My	M	--	--
23	Law Sam Sareun	M	--	--
24	Bou Bunheang	F	--	--
25	Eth Hy	M	--	--

Overview and Summary of Public LAR Consultation Meeting (May 2019)

Public Consultation Meeting Pre-public consultation meeting with local authorities and communities Provincial Water Supply and Sanitation Project (PWSSP)

Date: 31 May, 2019
Time: 2:30 to 4:30 pm
Location: Wat Chork Pagoda, Sangkat Svay Dangkum, Siem Reap province.
Participants: 33 (11 females)

Agenda

- I. Consultation meeting was chaired by Chief of Sangkat Svay Dangkum.
- II. Presentation by Mr. Hea Hav, Chief of Sangkat Svay Dangkum
 - Opening remarks
 - Introduction
 - Project introduction:
 - Component
 - Discussion
- III. Presentation by Social Safeguard and Resettlement Specialist (PIAC)
 - Project introduction
 - Project scope, activities and schedule
 - Explain in detail about social safeguard (social impacts, grievance redress mechanism, compensation etc.) and policy statement of ADB project
- IV. Question and Answer
- V. Discussion
- VI. Conclusion and closing remarks.

The public consultation meeting was conducted at the Wat Chork pagoda, Sangkat Svay Dangkum. In the name of the Siem Reap province, the chief of Sangkat Svay Dangkum gave a warm welcome to the participants. During the consultation meeting, the chief of Sangkat Svay Dangkum informed that the project is support by ADB and the purpose of the project is to improve sanitation in Siem Reap by replacing the existing main trunk sewer. He also announced that the project is managed by MPWT and DPWT with the support from PIAC.

The PIAC's national social safeguard and resettlement specialist gave a presentation about the project scope of work and its components. The detailed information of the project is as follows:

- Length of main pipeline to be replaced is 3.7km (the project will start working from the pumping station near Wat Chork pagoda toward BBU road by crossing the ring road, then turn to Sivatha road at the roundabout and continue to the north and to be finished at the crossroad between Sivatha road and National road number 6)
- Number of pits to be excavated is 37 pits
- Number of manholes to be constructed is also 37 manholes.

The PIAC's national social safeguard and resettlement specialist explained about the project and detail the resettlement and ADB policy SPS (2009), resettlement framework and entitlements for compensation based on the project RF. The compensation will be provided when the sub-project impacts on any private assets based on the RF and RCS determined amount.

It was also raised that the project construction work will not be disturb any private land property. The construction space is taken inside the boundary of the right-of-way. The new pipeline will be alignment with the existing one that need to be replaced only in the existing of road width. The pipe jacking technology is also less impact on social and environmental issues.

Summary of Public Consultation Meeting

SIEM REAP SUBPROJECT: REPLACEMENT OF MAIN TRUNK SEWER PIPELINE				
DATE	LOCATION AND TIME	FACILITATING ACTORS	PARTICIPANTS	DISCUSSION / RESPONSES / OUTCOMES FOLLOW-UP ACTIONS WITH RESPONSIBILITY
31 May 2019	Commune: Svay Dangkum Venue: Wat Chork Pagoda Time: 2:30 to 4:30 pm	<ul style="list-style-type: none"> ▪ Chief of Sangkat Svay Dangkum ▪ Social Safeguard and Resettlement Specialist consultant (PIAC) 	Female: 11 Male: 22 Total: 33	<p>Presentation:</p> <ul style="list-style-type: none"> · Description of project and its current status; · General introduction to ADB policy SPSS (2009) and resettlement framework <ul style="list-style-type: none"> Affected types (people, land, structure, tree and loss of business) Vulnerable people and allowances RCS and entitlement for compensation PGRC establishment and responsibility in the project GRM and how to process the GRM when the people complaints etc. · Construction impacts, the pipeline is located on public land and in the right-of-way; · Clarification on environmental construction management (traffic, access road, disturbance, and others); · Briefing on loss of assets on sites for proposed infrastructure <p>Comments – Questions – Answers:</p> <p>Q1: How many pits/manholes are to be excavated/built? A1: There are 37 pits/manholes to be excavated/built along the 3.7 km of the project road</p> <p>Q2: How long does it take to complete one location/manhole? A2: According to the work plan proposed by the contractor, one manhole takes two to three months to complete.</p>





Q3: During the construction work, can the public access through the route?

A3: Everyone can pass/access on the route while construction is in progress. The project is using new trenchless technology that drill and push the pipe underground. But, there would be disruption by traffic jam or traffic could move slower than before.

Q4: Will there be any disturbance or problem in front of or around our business locations during the construction?

A4: Based on the DED and with measures to avoid impacts, it is just traffic disturbance and reduced access to the road during construction. But the subproject implementation does not require closing of any of the businesses and these can open normally. In case it will be required to close or relocate a business, the project will compensate based on the RF and entitlements for compensation. The construction will result in disturbance in the 2-3 months period there is construction at each pit. The contractor will manage and minimize the impact by providing traffic management 24 hours/day and allow enough space for access roads to all the businesses and residences.

Q5: Counting from today, when will the project start and when it will be finished?

A5: The project was started from the 1st April, 2019 and will finish on 1st July 2020.

Q6: In case that I am an affected person or household, will I get compensation for the affected assets?

A6: The compensation will be provided in compliance with the policy under this project. But based on our assessment considering the detailed design drawings, there are no affected household or

				<p>land. There may be some damages to concrete pavements along the road, which be reinstated by the contractor after completion of other construction work.</p> <p>Q7: How many person or household is eligible to file the complaint?</p> <p>A7: A single person can also file the complaint.</p> <p>Q8: Please let us know at least 7 days before the construction start.</p> <p>A8: Before starting the construction work, the project will inform all those villagers who are living along the project road.</p> <p>Q9: During construction, please try your best to reduce the traffic jam!</p> <p>A9: The project will prepare traffic signboards and will also have flag men on standby to direct traffic direction, flow, and access. The project will also prepare and signpost required detours and access roads in the villages near the project areas.</p> <p>Q10: During the construction work, will it affect houses or buildings through this trenchless technology?</p> <p>A10: There is not any problem with it.</p>
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Overview and Summary of Public LAR Consultation Meeting (December 2019)

Overview and Summary of Public LAR Consultation Meeting

Public Consultation Meeting Agenda

- I. Consultation meeting was chaired by Chief of Sangkat Svay Dangkum.
- II. Presentation by Mr. Hea Hav, Chief of Sangkat Svay Dangkum
 - Opening remarks
 - Introduction
 - Project introduction:
 - Component
 - Discussion
- III. Presentation by Social Safeguard and Resettlement Specialist (PIAC)
 - Project introduction
 - Project scope, activities and schedule
 - Explain in detail about social safeguard (social impacts, grievance redress mechanism, compensation etc.) and policy statement of ADB project
- IV. Question and Answer
- V. Discussion
- VI. Conclusion and closing remarks.

The public consultation meeting was conducted at the Sangkat Svay Dangkum office. In the name of the Siem Reap province, the chief of Sangkat Svay Dangkum gave a warm welcome to the participants. During the consultation meeting, the chief of Sangkat Svay Dangkum informed that the project is support by ADB and the purpose of the project is to improve sanitation in Siem Reap by replacing the existing main trunk sewer. He also announced that the project is managed by MPWT and DPWT with the support from PIAC.



The PIAC's national social safeguard and resettlement specialist greeted the participants and gave a presentation about the project scope of work and its components. The detailed information of the project is as follows:

- Length of main pipeline to be replaced is 3.7km (the project will start working from pumping station near Wat Chork pagoda toward BBU road by crossing the ring road, then turn to Sivatha road at the roundabout and continue to the north and to be finished at the crossroad between Sivatha road and National road number 6)
- Number of pits to be excavated is 27 pits
- Number of manhole to be constructed is also 27 manholes.

The PIAC's national social safeguard and resettlement specialist explained about the project and detailed the resettlement and ADB policy SPS (2009), resettlement framework and entitlements for compensation based on the project RF. Compensation will be provided if the sub-project result in impacts on any private assets based on the RF and RCS.

It was also raised that the project construction work will not be disturb any private land property. The construction space is located inside the boundary of the right-of-way. The new pipeline will be aligned with the existing one that need to be replaced only within the existing of road width. The pipe jacking technology is associated in less impact on social and environmental issues.

**Summary of public consultation meeting
Provincial Water Supply and Sanitation Project (PWSSP)
SIEM REAP SUBPROJECT: REPLACEMENT OF MAIN TRUNK SEWER PIPELINE**

DATE	LOCATION AND TIME	FACILITATING ACTORS	DISCUSSION / RESPONSES / OUTCOMES FOLLOW-UP ACTIONS WITH RESPONSIBILITY
20 December 2019	Commune: Svay Dangkum Venue: Svay Dangkum Commune Office Time: 2:30 to 3:45 pm	Chief of Sangkat Svay Dangkum Commune Member Council Village Chief Social Safeguard and Resettlement Specialist consultant (PIAC) Chair Man of PIU	<p style="text-align: center;">Presentation:</p> <ul style="list-style-type: none"> · Description of project implementation and its current status; · General introduction to ADB policy SPSS (2009) and resettlement framework · Affected types (people, land, structure, tree and loss of business) · Vulnerable people and allowance · RCS and entitlement for compensate · PGRC establishment and responsibility in the project <ul style="list-style-type: none"> _ GRM and how to process a complaint _ The entitlements for compensation · Concerning construction impacts, the pipeline is constructed in the public right-of-way; · Clarification on environmental construction management (traffic, access road, business disruption, and others); · Briefing on loss of assets on sites for proposed infrastructure; · Discussion finding the problem during construction <p>Comments – Questions – Answers:</p> <p>Ideas: We are positive towards the project and would like to thank to the Government of Cambodia for providing this sub-project to our commune. As the local authority representative, we try to support the project by sharing project information, inform before construction start, facilitate and collect all comments from the people as well as complaints. Especially, the relevant chief of village along the road site of project are closely working with contractor and PIUs for support of the project.</p> <p>Q1: Please help to fill soil and maintenance the road broken by project in my village.</p> <p>A1: Yes, really and please wait for this as according the contract agreement, the contractor is responsible to restore the road to the same situation and condition after finishing pipe jacking.</p> <p>Q2: How long does it take to complete one location/manhole?</p> <p>A2: According to the work plan proposed by the contractor, one manhole takes two to three months to complete.</p> <p>Idea 4: During the project implementation, the social impact always happens,</p>
		PARTICIPANTS Total =24 Female =8	
			

			<p>and we try to handle and facilitate as we can. Please forgive us if something if some responses have not been provided in time or the project was late to inform. But as I know, the project try to do this better for the community and to avoid any problems during construction.</p> <p>Q5: After finish, can we connect the wastewater?</p> <p>A5: Yes of course and right, all the household in the around the project areas and commune can connect and use.</p> <p>Q6: During the construction work on the narrow road, can the people access through the normal route?</p> <p>A6: Yes of course, everyone can pass/access on the normal route during construction. The project is using new trenchless technology that drill and push the pipe underground. But, there could be disruption by traffic jam or traffic could move slower than before. So, the project prepare access road and allow the people access to the house and shop all the time.</p> <p>Q7: Will we have any business disturbance during the upcoming construction?</p> <p>A7: We try to avoid any impact and especially business disturbance, but if it happens the subproject will compensate base on the entitlements for compensation of the RF. Yes, for the manhole 10 to 12, we estimate that, the impact (traffic jam, access road) is better in front of the shop/store near manhole excavation because the contractor providing the bigger road for access.</p> <p>Q8: Counting from today, when will the project start and when it will be finished?</p> <p>A8: The project was started from the 1th April 2019 and will finish on 1th July 2020.</p> <p>Q8: Please still let the people living along the road site of the project know at least 7 days before the construction start</p> <p>A8: Yes, this is our role during project implementation. Before starting the construction work, the project will inform all those villagers who are living along the project road.</p> <p>Idea: The project will prepare the traffic signboard and will also have traffic/flag men to standby for traffic direction flow and access. Especially, the project also prepares detours and alternative access roads in the villages near the project areas.</p>
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Appendix 4: Pictures
Work with Local Community and Relevant Agencies



Consultation with Small Business along the Siem Reap Subproject Alignment







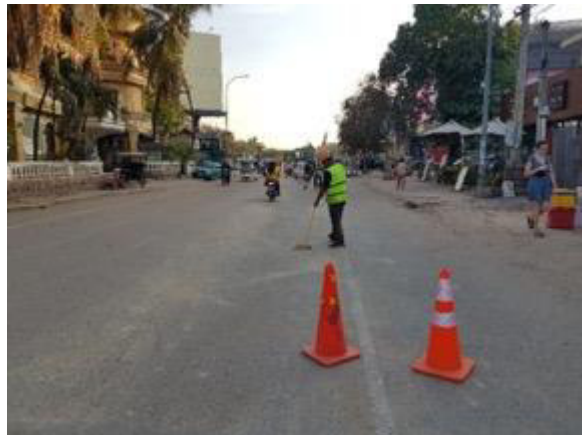
STD, STI and HIV/AIDS alleviation training program



Traffic control and safety matters



Dust control by cleaning and watering



១៤៤ ភាគីទាំងពីរត្រូវគោរពទៅតាមលក្ខខណ្ឌនិងរាល់ប្រការនៃកិច្ចសន្យាខាងលើ។
ប្រសិនបើភាគីណាមួយអនុវត្តខុសពីកិច្ចសន្យាខាងលើនេះត្រូវទទួលខុសត្រូវទាំងស្រុងចំពោះមុខច្បាប់។

សៀមរាប, ថ្ងៃទី.....ខែ.....ឆ្នាំ២០១១...

ហត្ថលេខា (ឬស្នាមមេដៃ) ភាគី "ខ"

ហត្ថលេខា (ឬស្នាមមេដៃ) ភាគី "ក"

ប្តី	ប្រពន្ធ	សាក្សី	ប្តី	ប្រពន្ធ
		
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Appendix 6: Training Activities

No.	Subject	Training Activities	Hours	Date	Participant
1	Social Safeguard and Environment	<ul style="list-style-type: none"> ○ RGC and ADB Policy Statement ○ Resettlement Framework ○ Responsible Parties During Implementation ○ Public Consultation Meeting ○ Grievance Redress Committee ○ Grievance Redress Mechanism ○ Social and Gender Awareness 	4 hours	7 th October 2019	<ul style="list-style-type: none"> ○ Consultant ○ PIU ○ Contractor
2	HIV/AIDS and Road Safety	<p>HIV/AIDs</p> <ul style="list-style-type: none"> ○ History of HIV ○ Difference between HIV and AIDS ○ Explain definition of immunity ○ Transmission-how it spread and how it does not ○ Explain what is STI symptoms and how to prevent ○ Show how to use the condom correctly <p>Road Safety</p> <ul style="list-style-type: none"> ○ Problem that can lead to or result in road crash ○ Human error and vehicle defects ○ Vehicle defects ○ 10 point to protect road crash 	4 hours	4 th Septem ber 2019	<ul style="list-style-type: none"> ○ Training of Trainer ○ Consultant ○ PIU ○ Site Engineer ○ Contractor ○ Construction Worker ○ Traffic Management Staff
3	Road Traffic Signs, Safety on Construction and Gender Base Violence (GBV)	<p>Road Traffic Signs</p> <ul style="list-style-type: none"> ○ Road sign plates ○ Signpost ○ Traffic lights ○ Road marking ○ Traffic police sign ○ Traffic Management ○ Traffic Management on road construction site <p>Gender Base Violence</p> <p>Construction Safety</p>	4 hours	19 th Decemb er 2019	<ul style="list-style-type: none"> ○ Training of Trainer ○ Consultant ○ PIU ○ Site Engineer ○ Contractor ○ Construction Worker ○ Traffic Management Staff