

Environmental Monitoring Report

Semestral Report (January – June 2021)
September 2021

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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Semi-Annual Environmental Monitoring Report

COUNTRY Cambodia

Ministry of Public Works and Transport

**CAM: Provincial Water Supply and Sanitation Project –
Sanitation Component**

Project No. 48158-002

Loan 3630-CAM/Grant 0561-CAM, AFD CKH 1188 01 V

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Reporting Period: January to June 2021

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SMR-E Report Number: 4

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Abbreviations

ADB	Asian Development Bank
AFD	Agence Française de Développement (French Development Agency)
BTB	Battambang
CEMP	Construction environmental management plan
CW	Civil works (subproject package)
DMS	Detailed measurement survey
EIA	Environmental impact assessment
EMP	Environmental management plan
GDR	General Department of Resettlement
GRC	Grievance Redress Committee
GRM	Grievance redress mechanism
HH	Household
H&S	Health and safety
IEE	Initial environmental examination
IESIA	Initial environmental and social impact assessment
MoE	Ministry of Environment
MoH	Ministry of Health
MPWT	Ministry of Public Works and Transport
PDPWT	Provincial Department of Public Works and Transport
PIAC	Project Implementation Assistance Consultant
PIB	Public information booklet
PIU	Project Implementation Unit
PMU	Project Management Unit
PPE	Personal protective equipment
PWSSP	Provincial Water Supply and Sanitation Project (this project)
SES	Socio-economic survey
SRP	Siem Reap
SMR –E	Semi-annual safeguards monitoring report on the environment
WWTP	Wastewater treatment plant

1 ENVIRONMENTAL SAFEGUARDS SUMMARY

1.1 Introduction

1. The fourth Semi-annual Monitoring Report on the Environment (SMR-E) covers the period of January – June (H1) 2021 for the Provincial Water Supply and Sanitation Project – Sanitation Component (PWSSP). The SMR-E has been prepared to fulfil the safeguard policy requirement of ADB.
2. The SMR-E is prepared by the Project Implementation Assistance Consultant (PIAC) (Rambøll Danmark A/S in association with TANCONS (Cambodia) Co., Ltd) and checked by the Project Management Unit (PMU) of the Ministry of Public Works and Transport (MPWT).

1.2 Summary of Project Progress

3. A brief summary of the project progress for contract award, construction and key activities in this reporting period are presented in Table 1:

Table 1 Project Progress Summary

Safeguards Category	Environment	B	
Reporting Period:	January-June/2021	Date Last Report Published:	February 2021
Contracts Awarded to Date:	<ul style="list-style-type: none"> • PWSSP/MPWT-01: Siem Reap Trunk Sewer Replacement awarded to Beijing Urban Construction Group Co., Ltd., 12 November 2018, • MPWT-CW-2: West Battambang Wastewater Treatment and Collection System awarded to Kiri Dangrek Construction Co., Ltd. and No. 203 Research Institute of Nuclear Industry (JV), 29 December 2020 		
Construction Progress to Date:	<ul style="list-style-type: none"> • PWSSP/MPWT-01 Siem Reap Trunk Sewer Replacement: 98 % construction completed • MPWT-CW-2 West Battambang Wastewater Treatment and Collection System: 0 % construction completed. 		
Key Sub-project Activities in this Reporting Period:	<p>Construction Activities</p> <p>PWSSP/MPWT-01 Siem Reap Trunk Sewer Replacement:</p> <ul style="list-style-type: none"> • There were no construction activities in the reporting period. <p>MPWT-CW-2 West Battambang Wastewater Treatment and Collection System:</p> <ul style="list-style-type: none"> • There were no construction activities in the reporting period. • The Contractor conducted the following activities: workers camp set up, procurement of pipes, material and equipment, and production (not installation) of concrete piles. The Contractor is also working on shop drawings and various plans. <p>Permits or Consents Issued:</p> <p>PWSSP/MPWT-01 Siem Reap Trunk Sewer Replacement:</p> <ul style="list-style-type: none"> • No permits or consents issued in the reporting period. <p>MPWT-CW-2 West Battambang Wastewater Treatment and Collection System:</p> <ul style="list-style-type: none"> • Safeguards Due Diligence Report issued in March 2021 		

PWSSP – Provincial Water Supply and Sanitation Project; MPWT – Ministry of Public works and Transport; GDR – General Department of Resettlement; IESIA – Initial Environmental and Social Impact Assessment;

1.3 Summary of Environmental Management Plan Implementation

1.3.1 Siem Reap Trunk Sewer Replacement

4. The implementation of the environmental management plan (EMP) in the reporting period is summarized below:
 - No construction activities carried out in the reporting period.
 - Progress of work (98% civil works and construction) – trench stabilization and road resealing, and installation of valve at pump station are outstanding works, but they are subject to approval of the variation. The road works are also dependent on the completion of the sewer and drainage connections (being carried out by others under another project).
 - Temporary re-seal has been applied to the roads while the concept and variation for trench stabilization and road rehabilitation is being finalized so the road is fully operational and appropriate mitigation following the EMP has been implemented.
 - Stabilization of the old trench is needed, and given the condition of existing road, rehabilitation of the full width along the entire length is recommended.
 - Due to ongoing work in the subproject area under a separate project, reinstatements will be completed along with road reseal as part of the planned road rehabilitation and upgrade.
 - An EMP addendum is prepared August 2021 covering the trench stabilisation and road rehabilitation scope, disclosed, and the cleared version is shared with the Contractor for updating their CEMP.
5. Progress with the monitoring of the EMP implementation during the reporting period is summarized below:
 - Number of monitoring visits to construction site and wider area:
 - No monitoring visits by PMU/PIU
 - 1 visit by the PIAC's international and national environmental and social safeguards experts in June 2021
 - Number of environmental samples tested:
 - [nil] water quality samples tested as there have been no construction activities in the reporting period
 - [nil] air quality samples tested as there have been no construction activities in the reporting period
 - [nil] groundwater quality samples tested as there have been no construction activities in the reporting period.

1.3.2 West Battambang Wastewater Treatment and Collection System

6. Construction and environmental management plan (EMP) implementation have not commenced during the reporting period. The IEE and EMP for BTB are under revision in the reporting period and will be disclosed upon approval of the PMU and clearance by ADB. Progress on pre-construction activities is summarized below:
 - Draft Contractor's EMP has been submitted and commented on by PIAC.
 - Draft Health and Safety Plan has been submitted and commented on by PIAC
7. Construction and (EMP) implementation have not yet commenced in the reporting period. EMP supervision is summarised in the following points, for this reporting period:
 - Number of monitoring visits to construction site and wider area:
 - 1 visit by PMU and PIU in February 2021 with participation of GDR, Contractor, and PIAC (refer Safeguards DDR published on ADB's project website).
 - [nil] visits by other parties (e.g. independent monitoring organization, Ministry of Environment (MOE), CSC) as there have been no construction activities in the reporting period; construction is expected to commence in Q3 2021
 - Number of environmental samples tested:

- [nil] water quality samples tested as the contractor is still preparing to start construction, expected in Q3 2021
- [nil] air quality samples tested as the contractor is still preparing to start construction, expected in Q3 2021
- [nil] groundwater quality samples tested as the contractor is still preparing to start construction, expected in Q3 2021

1.4 Summary of Complaints, Issues and Corrective Action

1.4.1 Siem Reap Trunk Sewer Replacement

8. Complaints, issues and corrective actions that have been identified or implemented in Siem Reap (SRP) during this reporting period are summarized below:
- *Issues Raised:* There were no subproject construction activities in the reporting period and no issues have been raised at subproject construction sites. Temporary re-seal has been applied to the roads while the concept and variation for trench stabilization and road rehabilitation is being finalized so the road is fully operational and appropriate mitigation following the EMP has been implemented. Trench stabilization and road resealing are awaiting completion of the sewer and drainage connection project (being carried out by others under another project) and subject to approval of the variation.
 - *Grievances Raised with the Grievance Redress Committee (GRC):* No grievances have been raised in the reporting period.
 - *Corrective Action Issued to the Contractor:*
 - There were no subproject construction activities in the reporting period and so there have been no problems at subproject construction sites that required corrective action.

1.4.2 West Battambang Wastewater Treatment and Collection System

9. Any complaints, issues and corrective action that has been identified or implemented in Battambang (BTB) are summarized in the following points, for this reporting period:
- *Issues Raised:* There have been no issues at construction sites (e.g. related to dust, noise, traffic) as construction has not started as yet.
 - *Grievances Raised with GRC:* [nil] grievances
 - *Corrective Action Issued to the Contractor:*
 - There have been no problems at construction sites that required corrective action.

2 SAFEGUARDS STAFF, TRAINING AND DOCUMENTATION

2.1 Implementation Arrangements

10. The environmental safeguards roles and responsibilities are defined in the EMP. The roles are required to be filled in order to meet the EMP requirements. The status of the key roles for EMP implementation are presented in Table 2.

Table 2. Status of Environmental Safeguard Roles

Safeguards Role	Status and Comments			
Social and Environmental Specialist (MPWT)	Date Started:	April 2020	Full Time/ Part Time	PT (on multiple projects)
	Comment	MPWT established Social – Environmental Office (SEO) and appointed Mr. Penh Socheat as Environmental Officer responsible for the project. Tel: 087 431 777		
Social and Environmental Specialist (SES) (PDPWT- Battambang)	Date Started:	22 August 2018	Full Time/ Part Time	PT
	Comment	Mr. Teng Kemsean, Social and Environmental Officer. Tel: 012 864 861		
Social and Environmental Specialist (SES) (PDPWT Siem Reap)	Date Started:	2019	Full Time/ Part Time	PT
	Comment	Mr. Thern Soveat, Social and Environmental Officer. Tel: 017 529 979		
International Environment Specialist	Date Started:	19 May 2019/14 May 2020	Full Time/ Part Time	PT
	Comment	Replaced Dr Hoan, Trung Thanh by Mr Alexander Timmermann. Tel: +45 51 61 28 44		
National Environment Specialist	Date Started:	27 May 2019	Full Time/ Part Time	PT
	Comment	Mr Yim Chamnan, Tel: 012 945 546		

Safeguards Role	Status and Comments			
Contractor Social, Environmental and Safety Specialist – Siem Reap	Date Started:	2019	Full Time/ Part Time	FT
	Comment	Contractor Focal: Ms. Laing Lenghieng 098 213 575, demobilised following completion of construction		
Contractor Social, Environmental and Safety Specialist – Battambang	Date Started:	To be confirmed	Full Time/ Part Time	FT
	Comment	Environmentalist: Mr. Song Kim Chhuon (012 916-545) Health and Safety Engineer: Mr. Orng Leang Meng (085-573-388)		
Contractor GRM Focal - Battambang	Date Started:		Full Time/ Part Time	
	Comment	To be appointed at or before start of construction.		

11. It was concluded that the environmental safeguards roles are adequate considering the activities in the reporting period.

2.2 Training and Capacity Building

12. The environmental safeguards training courses that have been completed during this reporting period and the planned training courses for the next six months are shown in Table 3. The expected training dates have been adjusted in accordance with the Contractor's programme. Virtual training sessions have been discussed between the PMU, PIAC, and the Contractor as a possibility to allow training to go ahead in a situation with COVID-19 travel restrictions.

Table 3. Environmental Safeguards Training Provided and Planned

Training Course Title	Training Date	Participants	Training Provider
BTB - EMP adjustment and implementation - Development and adjustment of the EMP, roles and responsibilities, monitoring, supervision, and reporting	Expected H2 2021 (second half of 2021)	PMU, PIU, contractor	PIAC
BTB - GRC – roles and responsibilities	Expected H2 2021	PMU, PIU, contractor, commune councils	PIAC

Training Course Title	Training Date	Participants	Training Provider
BTB - Environmental protection - Pollution control on construction sites (air, noise, wastewater, solid waste)	Expected H2 2021	PMU, PIU, contractor	PIAC
BTB - Environmental monitoring - Monitoring methods, data collection and processing, reporting systems	Expected H2 2021	PMU, PIU, contractor, operator	PIAC

2.3 ADB Clearances

13. Information on the status of the safeguard documents are summarized in Table 4.

Table 4. Status of Environmental Safeguard Documents

Safeguards Documents	Update Issued (Latest Version)	Submitted to MOE	Submitted to ADB	Comment
SRP – EMP for Siem Reap Trunk Sewer Replacement Subproject	June 2019 (7 May 2020)	Not Applicable (subproject scale and scope below thresholds that would require MoE approval and MPWT has confirmed, in consultation with MoE and in line with the Prakas on EIA Classification for Development Projects (2020), that there is no requirement for domestic environmental compliance for the subproject (existing works (Siem Reap Trunk Sewer) and additional trench stabilization and road repaving works (CW01)).	07 May 2020, cleared and disclosed	EMP addendum expected next quarter.

BTB – IEE for West Battambang Wastewater Treatment and Collection System	March 2021	Not Applicable (The MOE requires IESIA submission in line with the national regulation and is not receiver or reviewer of the IEE)	11 November 2020, resubmitted March 2021. Revision expected.	Updated version considering changes / improvements requested in ADB comments and observations, 04 December 2020 and 06 April 2021 resubmitted.
BTB – EMP for West Battambang Wastewater Treatment and Collection System	14 September 2020	Not Applicable (The MOE requires IESIA submission which includes EMP in line with the national regulation and is not receiver or reviewer of the standalone EMP)	14 September 2020. Revision expected following finalisation of the IEE.	EMP cleared for inclusion in the bid document. Minor updates consistent with changes or improvements suggested in the IEE are expected. Final cleared EMP to be shared with the contractor for update to their CEMP. The contractor to re-submit the revised CEMP to the PMU for clearance.

2.4 National Approvals

14. An update on the necessary national approvals required for the project to proceed are presented in Table 5.

Table 5. Status of National Approvals for Environmental Documents

Documents	Submitted to MOE	Approved By MOE:	Status – if not approved	Comment
BTB - IESIA for West Battambang Subproject	22 September 2020	01 December 2020	Approved	IEIA includes EMP. Refer IEE Annex 1: Permits and Approvals
SRP – IESIA for Siem Reap Subproject	Not Applicable	Not Applicable	Not Applicable	Subproject scale and scope below thresholds that would require MOE approval and MPWT has confirmed, in consultation with MoE and in line with the Prakas on EIA Classification for Development Projects (2020), that there is no requirement for domestic environmental compliance for the subproject (existing works (Siem Reap Trunk Sewer) and additional trench stabilization and road repaving works (CW01)). Refer EMP Addendum Annex 2

2.5 Construction Environmental Management Plan Approvals

15. The status of the construction environmental management plan (CEMP) for each civil works package is shown in Table 6.

Table 6. Status of CEMP Approvals

Civil Works Package/ Subproject	CEMP submitted	Approved:	Comment:
PWSSP/MPWT-01 Siem Reap Subproject	April 2019	Yes, May 2019	Updated/revised following comments and accepted. The Health and Safety Plan was submitted under separate cover (prior to COVID-19).

MPWT-CW-2 West Battambang Subproject	April 2021, comments issued	Expected resubmitted for approval in Q3 2021	Contractor to submit to PIAC for clearance. The Health and Safety Plan was submitted under separate cover. HSP and CEMP contains COVID-19 prevention and mitigation measures and commitment to comply with MoH instructions. Final cleared EMP to be shared with the contractor for update to their CEMP. The contractor to re-submit the revised CEMP to the PMU for clearance.
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3 ENVIRONMENTAL MANAGEMENT PLAN IMPLEMENTATION

3.1 Environmental Performance

3.1.1 Siem Reap Trunk Sewer

16. Table 7 gives the environmental impact mitigation measures in the Project EMP and the corresponding CEMP, as well as how the project is progressing with implementing the mitigation measures, for the Siem Reap Trunk Sewer Replacement subproject. Final road reseal and reinstatements will be carried out as part of the trench stabilization and road rehabilitation. Temporary re-seal has been applied to the roads to ensure the road is fully operational and appropriate mitigation following the EMP has been implemented. Trench stabilization and road resealing are awaiting completion of the sewer and drainage connection project (being carried out by others under another project) and subject to approval of the variation.
17. Review activities in the reporting period included:
- Site visit to assess current situation and prepare for implementation of the remaining subproject works (site visit conducted June 2021)
 - Consultation with affected people are along the roads (consultations conducted on 8-9 June 2021 as part of site visit).

Table 7. Status of EMP Compliance Siem Reap Subproject

Item	EMP Requirement (Mitigation Measure)	Compliance and Description (Yes, No, Partial)	Comment or Further Explanation if Needed	Reasons for Not Full Compliance
1	Reinstatements to be verified and confirmed acceptable	Partial	Reinstatements will be completed along with road reseal; to be verified and confirmed acceptable through consultations. Temporary reseal has been applied to ensure the road is fully operational in the interim period.	Due to ongoing work in the subproject area under a separate project, reinstatements will be completed along with road reseal as part of the road rehabilitation and upgrade.

18. For all 'Partial' or 'No' compliance issues in Table 7, the actions needed to solve the compliance issues are in Table 8 below:

Table 8. EMP– Actions Needed for Compliance Siem Reap Subproject

Item	EMP Requirement	Further Action to be taken	Date for Action	Who will Implement Action
Ad 1	Reinstatements to be verified and confirmed as acceptable	Reinstatement to be completed along with road resealing (included in forthcoming EMP addendum) To be verified and confirmed acceptable through consultations	Expected Q4 2021	Contractor

19. Information on environmental performance issues from previous environmental monitoring reports are shown in Table 9. Whether the action was completed, or it is outstanding can be seen in Table 9.

Table 9. EMP Compliance Outstanding Issues – Siem Reap Subproject

EMP Requirement / Issue	Further Action to be Taken	Responsibility and Timing	Resolution	Required Action
Stabilization of the old trench is needed, and given the condition of existing road, rehabilitation of the full width along the entire length is recommended (included in scope of the variation)	Finalize concept design for the trench stabilization and road rehabilitation	PIAC, PMU, Q3 2021	Outstanding/ Await concept and detailed design	Confirm scope and extent of road resealing

3.1.2 West Battambang Wastewater Treatment and Collection System

20. Construction and EMP implementation have not commenced in the reporting period. Status of EMP compliance and EMP compliance issues will commence in next reporting period.

3.2 Health and Safety Performance

21. The health and safety impact mitigation measures in the Project EMP and how the project is progressing with implementing the mitigation measures, for all subprojects are presented in Table 10. For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no implementation of health and safety (H&S) impact mitigation measures in this reporting period. The Health and Safety Plan (HSP) for SRP subproject was submitted in H1 2019 (first half of 2019 and prior to COVID-19). The EMP addendum for SRP (forthcoming) will require development of CEMP and HSP including COVID-19 prevention and mitigation measures. The Health and Safety Plan for BTB was submitted in H1 2021 (first half of 2021) and comments issued. Resubmission expected in H2 2021 (second half of 2021) . The BTB HSP and CEMP contain COVID-19 prevention and mitigation measures and commitment to comply with MoH instructions. The IEE and EMP for BTB and forthcoming EMP addendum for SRP have COVID-19 H&S provisions included.

Table 10. Status of Health and Safety Compliance - All subprojects

Item	Health and Safety Requirement	Compliance and Description (Yes, No, Partial)	Comment or Further Explanation if Needed	Reasons for Not Full Compliance
	Not applicable in the reporting period			

22. For all 'Partial' or 'No' compliance issues in Table 10, the actions needed to solve the compliance issues are shown in Table 11:

Table 11. Status of Health and Safety Actions Needed for Compliance - All subprojects

Item	Health and Safety Requirement	Further Action to be Taken	Date for Action	Who will Implement Action
	Not applicable in the reporting period			

23. Health and safety performance issues from previous environmental monitoring reports for this subproject along with their respective status off execution are summarized in Table 12.

Table 12. Health and Safety Compliance Actions Outstanding Issues - All subprojects

Health and Safety Compliance Action Outstanding	Further Action to Take	Responsibility and Timing	Resolution	Required Action
No issues outstanding				

4 ENVIRONMENTAL MANAGEMENT PLAN MONITORING

4.1 Environmental Quality Monitoring

24. Environmental quality monitoring requirements are defined in the Monitoring Plan section of the EMP. Table 13 gives a summary of the environmental quality monitoring requirements for each subproject.

Table 13. EMP Environmental Quality Monitoring Requirements

Subproject	Environmental Issue Monitored	Location	Parameters	Responsible Organisation	Frequency
MPWT-CW-2 Battambang Wastewater Treatment Plant and sewerage network	Water quality	Upstream and downstream of construction sites at nearest water body (canal or river)– two samples per site (Monitor when construction active)	pH, BOD ₅ , COD, TSS, oil and grease, turbidity (NTU)	Contractor	Quarterly
MPWT-CW-2 Battambang Wastewater Treatment Plant and sewerage network	Air quality	Nearest residential receptors (2 locations)	TSP, PM ₁₀ , CO, NO ₂ , SO _x	Contractor	Quarterly
MPWT-CW-2 Battambang Wastewater Treatment Plant and sewerage network	Noise	Nearest residential receptors (2 locations)	dBA	Contractor	Quarterly
MPWT-01: Siem Reap Trunk Sewer Replacement	Water quality	Upstream and downstream of construction site at nearest water body (canal)	TSS, heavy metals (As, Cd, Pb,) total & fecal coliform, pH, DO, COD, BOD ₅ , temperature, NH ₃ , and other nutrient forms of N & P	Contractor	In response to complaints or discharges
MPWT-01: Siem Reap Trunk Sewer Replacement	Air quality	Work area	Total suspended particulate/dust	Contractor	In response to complaints
MPWT-01: Siem Reap Trunk Sewer Replacement	Noise	Work area	dBA	Contractor	In response to complaints

Legend: BOD₅ – Five-day biochemical oxygen demand; CO – carbon monoxide; COD – (total) chemical oxygen demand; dBA – A-weighted decibel; NO₂ – nitrogen dioxide; NTU – nephelometric turbidity units; pH – unit of acidity; PM₁₀ – particle matter (10 micrometer size); SO_x – sulfur oxides, TSP – total suspended particles, TSS – total suspended solids

25. Table 14 gives information on the environmental quality monitoring implemented, during this reporting period. Detailed results compared to relevant national / international standards are in Annex 1. For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no environmental quality monitoring implemented in the reporting period.

Table 14. EMP Environmental Quality Monitoring Implementation

Subproject	Environmental Issue Monitored	Location	Monitoring Date
N/A			

26. **Summary of Results – Noise.** For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no environmental quality monitoring implemented in the reporting period.
27. **Summary of Results – Surface Water quality.** For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no environmental quality monitoring implemented in the reporting period.
28. **Summary of Results – Groundwater quality.** For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no environmental quality monitoring implemented in the reporting period.
29. **Summary of Results – Air quality.** For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no environmental quality monitoring implemented in the reporting period.

4.2 Consultation of Construction Phase Affected People Consultation

30. Information on the consultations that were undertaken during the period in order to understand the impact of the project on affected people and how effective the EMP mitigation measures are for residents, businesses and others around the construction sites are summarized in Table 15. For the Siem Reap subproject there was no construction in the reporting period and for the Battambang subproject construction is yet to commence. Thus, there has been no construction phase affected people consultations in the reporting period by project staff from the PIU and PMU.

Table 15. Construction Phase Affected People Consultation

Subproject	Consultation Date	Person Consulted / Location	Outcome / Issues	Corrective Action Needed	Action Implemented by (person/date)
PWSSP/MPWT-01 Siem Reap Trunk Sewer Replacement	N/A				
MPWT-CW-2 west Battambang Wastewater Treatment and Collection System	N/A				

5 COMPLAINTS, ISSUES, CORRECTIVE ACTION

5.1 Information Disclosure

31. Details of information disclosure activities undertaken during the period are given in Table 16:

Table 16. Information Disclosure (including public meetings and information dissemination)

Topic / Reason for Information	Disclosure Date	Method of Disclosure	Outcome / Results
Battambang wastewater – consultation at Sala Sangkat Svay Por by IRC-WG assisted by PRSC-WG prior to compensation contract negotiations and signing by affected households.	February 2021	Consultation meeting held at Sala Sangkat Svay Por attended by 10 AHs out of which 7 were females.	Schedule for contract signing by the AHs with deadlines and the legal requirements to receive the compensation (national ID) explained.
Siem Reap road rehabilitation subproject of Sivutha road and road N. 267.	08-13 June 2021	Site visit road rehabilitation subproject in Siem Reap. Consultation meetings with local authority and PIU, and one-to-one consultations with total of 125 participants/persons (of which 55 were female). Due to the COVID-19 pandemic travel and meeting restrictions the consultations were carried out in small groups with limited participants or one-to-one.	Information on the proposed scope of works under the variation, explanation of the grievance redress mechanism and expected time schedule provided to the participants. Through one-to-one consultations obtain understanding of concerns, suggestions and questions from the community in the subproject area (further details will be reported in the forthcoming EMP addendum).

Legend: DMS – detailed measurement survey; EM – environmental management; GRM – grievance redress mechanism; HH – household; IESIA – initial environmental and social impact assessment; PIB – public information booklet; SES – socio-economic survey

5.2 Grievance Redress Mechanism

32. Information on complaints about the project (which the PIAC is aware of) during this reporting period is presented in Table 17. The table includes:

- Details of complaints or issues raised during the reporting period either through GRM entry points; in consultation sessions; and any other way that the project team is aware of
- Details of the person making the complaint
- Action needed and by when
- Status of the complaint/issue resolution at the end of the reporting period

33. Generally, where possible attempt is made to solve all issues as quickly as possible through informal discussions between the affected people and the contractor. As there was no construction in either Siem Reap or Battambang during the six months to June 2021, no grievances were raised.

Table 17. Project Complaints or Issues

Details of Complaint / Issue Raised	Detail of Person (Date, Name, Contact Details)	Action Needed and Date	Comment / Resolved?
SRP – none received during the period			
BTB – none received during the period			

34. Table 18 gives information on all issues raised in previous periods which are not yet resolved. All issues raised in previous SEMR-E have been resolved.

Table 18. Project Complaints or Issues – Unresolved from Previous Periods

Details of Complaint	Detail of Person (Date, Name, Contact Details)	Action Needed & Date	Reason this is still not resolved
No complaints pending resolution			

5.3 Corrective Action

35. Information on any formal corrective actions that has been issued to the contractor in order to improve environmental performance are summarized in Table 19. As there was no construction in either Siem Reap or Battambang during this reporting period, no corrective actions have been necessary or issued.

Table 19. Corrective Action Issued

Reason for Corrective Action	Date Issued	Outcome	Comment / Follow Up
SRP – no correction actions issued during the period			
BTB – no correction actions issued during the period			

6 CONCLUSIONS AND RECOMMENDATIONS

Conclusion:

36. For the Siem Reap subproject construction was completed in June 2020 and the trench stabilization and road resealing, and installation of valve at pump station are outstanding works, but they are subject to approval of the variation and waiting for completion of the sewer and drainage connection project completion (being carried out by others under another project). For the Battambang subproject the contractor's programme is delayed and construction is yet to commence, conditional upon advance payment and approval of contractor's submittals. On that basis there has not been any implementation of the EMP in the reporting period. The environmental safeguards are considered adequate.
37. The Siem Reap trench stabilization and road rehabilitation will include rehabilitation of the Sivutha road (from National Road No 6 to Roundabout) and section of Road No 267 (from ring road to wastewater pumping station). The activities for road rehabilitation subproject are reviewed and a revised project design conducted in consultation with provincial authorities, PMU and MoE. Due to the COVID-19 pandemic travel and meeting restrictions the consultations were carried out in small groups with limited participants or one-to-one.

Recommendations:

38. With respect to Siem Reap subproject, trench stabilization is required and condition of existing road in a condition where rehabilitation is recommended along the full length of the project roads. The final concept for trench stabilisation and road rehabilitation, will include permanent seal of the road and the reinstatements outstanding will be completed along with road reseal. The additional scope will require preparation of an EMP addendum.
39. With respect to Battambang subproject, the main recommendations relate to the preparation for environmental management by the contractor, including a final updated CEMP with associated sub-plans as detailed in the EMP. The contractor is to finalize nomination of environment, health and safety officer(s) and community liaison / GRM focal point. Training needs and activities will be assessed and conducted following the nominations/appointments. The possibility of virtual training sessions to be assessed in light of COVID-19 related travel restrictions.
40. For Battambang subproject the CEMP should be updated to the acceptable level. The PIAC has updated and submitted IEE and EMP for review and approval. Considering outstanding and further comments the IEE and EMP for BTB be revised and disclosed upon approval of the PMU and clearance by ADB.

Annex 1 Environmental Quality Monitoring Results

No environmental quality monitoring conducted in the reporting period in Siem Reap or Battambang.

Annex 2 Photo Record – Site Visits, Monitoring, Consultation

Photos of consultations in road conditions in Siem Reap, preparation for trench stabilization and road upgrade under subproject variation



Siem Reap: Consultations along the Sivutha Boulevard (June 2021)



Siem Reap: Sivutha Boulevard conditions (June 2021) – the planned road works under the variation are dependent on the completion of the sewer and drainage connections under the 38 roads project



Photographs of Environmental Quality Monitoring

No environmental quality monitoring conducted in the reporting period in Siem Reap and Battambang.

Annex 3 Siem Reap – Sivutha Boulevard Improvement Concept

The concept for the upgrade of the Sivutha Boulevard includes footpath, angle parking, and space for food carts/stalls

