



Ministry of Public Works and Transport Kingdom of Cambodia

GMS: Southern Economic Corridor Towns Development Project

**Loan 2983-CAM (SF), Loan 8265-CAM(SCF)
Grant 0334-CAM (UEIF), Grant 0335-CAM (SCF)**

Quarterly Report 3rd Quarter 2021

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ABBREVIATIONS AND ACRONYMS

ADB	-	Asian Development Bank
AHs	-	Affect Household
APs	-	Affect People
CS	-	Construction Supervision
CTDP	-	Corridor Towns Development Project
DDR	-	Due Diligence Report
DED	-	Detailed Engineering Design
DLP	-	Defect Liability Period
DMF	-	Design and Monitoring Framework
DMS	-	Detail Measurement Survey
DFEC	-	Declarations of Fraud and Ethical Conduct
EA	-	Executive Agency
EM	-	External Monitoring
EMP	-	Environmental Management Plan
FHH	-	Female Household Head
GAP	-	Gender Action Plan
GDR	-	General Department of Resettlement
GRM	-	Grievance Redress Mechanism
ICB	-	International Competitive Bidding
IEE	-	Initial Environmental Examination
IOL	-	Inventory of Loss
IRC	-	Inter-Ministerial Resettlement Committee
M&E	-	Monitoring and Evaluation
MEF	-	Ministry of Economy and Finance
MPWT	-	Ministry of Public Works and Transport
MRF	-	Material Recovery Facility
NCB	-	National Competitive Bidding
PAHs	-	Project Affect Households
PAP	-	Project-affected People
PIB	-	Public Information Booklet
PISCD	-	Project Implementation Support and Capacity Development
PIU	-	Project Implementation Unit
PMU	-	Project Management Unit
PPMS	-	Project Performance Management System
PPP	-	Public-Private Partnership
PRC	-	Procurement Review Committee
RGC	-	Royal Government of Cambodia
RP	-	Resettlement Plan



SDR	-	Special Drawing Rights
SEC	-	Southern Economic Corridor
SLEDP	-	Strategic Local Economic Development Plan
URP	-	Updated Resettlement Plan
WWT	-	Wastewater Treatment



SECTION 1 INTRODUCTION AND BASIC DATA

1.1 PROJECT OVERVIEW

The Royal Government of Cambodia (RGC) has received loans and grants from the Asian Development Bank (ADB) towards the cost of the Greater Mekong Sub-region (GMS) Southern Economic Corridor Towns Development Project (the Project).

The Project will enhance the competitiveness of towns along the Southern Economic Corridor (SEC). The Project will transform the Cambodian corridor towns of Battambang, Bavet, Neak Loeung, and Poipet (see Figure 1.1) into economic hubs by improving urban-environmental infrastructure and strengthening institutional capacities of provincial and local authorities.

Figure 1.1: Location of Three Corridor Towns of CTD in Cambodia



The Project's expected outcome is improved urban infrastructure and enhanced climate resilience in Battambang, Bavet, Neak Loeung and Poipet. The Project consists of eight subprojects including: (a) two Subprojects in Battambang - Wastewater Treatment (Storm Drainage), and Materials Recovery Facility (MRF); (b) three subprojects in Bavet - Urban Road, Wastewater Treatment (Storm Drainage), and MRF; (c) one subproject in Neak Loeung - Flood Control; and (d) two subprojects in Poipet - Wastewater Treatment (Storm Drainage) and MRF.



1.2 BASIC DATA

The Basic Project Data is presented in below table:

Project Title:	Greater Mekong Sub-region Southern Economic Corridor Towns Development Project		
Project Number:	43319-033		
Borrower:	Kingdom of Cambodia		
Executing Agency (EA) and Implementing Agencies (IA)	The EA of the Project is the Ministry of Public Works and Transport (MPWT). The EA assumes overall responsibility for the project implementation through the Project Management Unit (PMU). The Provincial Town Governor in each of the four Towns, in cooperation with PMU, has set up the PIUs for the implementation of Subproject activities. The key members of the PMU and PIUs are presented in Appendix A.		
Total Project Cost and Financing Plan			
Loan/Grant No.	Source of Funding	Amount (US\$ million)	Share of Total (%)
Loan 2983-CAM (SF)	Asia Development Fund	33.44 ^a	65.3
Loan 8265-CAM (SCF)	Strategic Climate Fund ^b	5.00	9.8
Grant 0335-CAM (SCF)	Strategic Climate Fund ^b	4.40	8.6
Grant 0334-CAM (UEIF)	Urban Environmental Infrastructure Fund Grant under the Urban Financing Partnership Facility ^c	1.50	2.9
	Government of Cambodia	6.87	13.4
	Total Project Cost	51.21	100.0

^a Revised due to the depreciation of the SDR against the US\$.

^b Under the Pilot Program for Climate Resilience financed by the Strategic Climate Fund. The ADB Strategic Climate Fund is administered by the Asian Development Bank.

^c Contributor: the Government of Sweden.

Date of Loan/Grant Approval	10 December 2012
Date of Signing of Agreement	17 January 2013
Date of Effectiveness	08 April 2013
Loan/Grant Closing Date	
ADB Review Mission Approved an Extension, Date of ADB mission (29 April-16 May 2019)	30 June 2021 (loan period is 8.23 years from date of effectiveness)
Second Project Extension	31 December 2023 (loan period is 10.74 years from date of effectiveness)
Original Closing Date	30 June 2019 (loan period is 6.23 years from date of effectiveness)
Elapsed Loan Period	8.48 years from date of effectiveness, 79% (considering revised loan/grant closing date of 31 December 2023)
Dates of ADB Review	08 September – 01 October 2014; 01 – 11 December



Missions and Mid –Term Review	2015; 09 – 22 August 2016; 18 – 30 October 2017; 21-29 May 2018; Mid –Term Review 2-30 November 2018; 29 Apr-16 May 2019; 21 October– 6 November 2019; 16 - 26 March 2020; 19-28 October 2020, 30 August to 7 September 2021.
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Compared to the original plan, the implementation of the Project has been delayed by about 54 months. This is due mainly to delays in the procurement of the Detailed Engineering Design (DED) Consultant, preparation of DED and Bid Documents, changing scope of the subprojects. Based on this, a proposal for the second extension of the loan/grant closing date by 30 months from 30 June 2021 to 31 December 2023 was prepared by the EA/MEF for approval by ADB on 16 March 2021.

The original loans/grants closing date was 30 June 2019, and ADB approved first extension of closing date of Loan 2983, Loan 8265 and Grant 0335-CAM to 30 June 2021. Second extension was proposed to 31 December 2023. Whereas closing date of Grant 0334-CAM remains unchanged because all activities and funds under this Grant were completed and disbursed fully before 30 June 2019. The updated Overall Project Implementation Plan shown in **Appendix B**.

1.3 REPORTING PERIOD

This Quarterly Report is for the 3rd Quarter of 2021 (July-September 2021) reporting period. It provides a summary of accomplishments during the reporting period, compliance with safeguards and covenants, identifies major issues and concerns and recommends the action required, and lists activities to be carried out in this quarter.



SECTION 2 UTILIZATION OF FUNDS

2.1 REVISED PROJECT COST ESTIMATE

The Project cost estimate was amended to take into consideration: (i) the reallocation of loan/grant proceeds due to contract awards under some loan categories that already exceeded their allocation, and the prioritization of Subprojects such that total cost will be within the available budget; (ii) budget shortfalls arising from the depreciation of the SDR against the US\$; and (iii) extension of loan/grant closing date. Table 2.1 presents the revised Detailed Cost Estimate by Financier within MEF, and approved by ADB.

Table 2.1: Revised Detailed Cost Estimate by Financier (US\$ million)
Reallocation of Loan and Grant Proceeds as Approved by ADB on 26 January 2017
(Greater Mekong Subregion Southern Economic Corridor Towns Development Project)

No.	Item	ADB Loan *		SCF Loan		SCF Grant		UFPF Grant		RGC				Total
		Amount	%	Amount	%	Amount	%	Amount	%	Nontax	Taxes	Amount	%	
1	Works	25.684	67.2	3.780	9.9	3.270	8.6	1.390	3.6	-	4.097	4.097	10.7	38.221
1A	CW: Wastewater Treatment and Flood Control	16.022	62.2	3.780	14.7	3.270	12.7	-	-	-	2.697	2.697	10.5	25.769
1B	CW: Road and Solid Waste Management	9.662	88.5	-	-	-	-	-	-	-	1.260	1.260	11.5	10.922
	Material Recovery Facilities	-	-	-	-	-	-	1.390	90.8	-	0.140	0.140	9.2	1.530
2	Consulting Services	3.317	69.7	0.739	15.5	0.702	14.8	-	-	-	-	-	-	4.758
2A	Project Implementation Support & CD	1.816	71.1	0.368	14.4	0.371	14.5	-	-	-	-	-	-	2.555
2B	Detailed Engineering Design	0.659	78.0	0.100	11.9	0.085	10.1	-	-	-	-	-	-	0.845
2C	Construction Supervision	0.730	58.6	0.270	21.7	0.246	19.7	-	-	-	-	-	-	1.246
2D	External Monitoring	0.113	100.0	-	-	-	-	-	-	-	-	-	-	0.113
3	Equipment	0.416	100.0	-	-	-	-	-	-	-	-	-	-	0.416
4	Training	0.136	100.0	-	-	-	-	-	-	-	-	-	-	0.136
5	Incremental Administration	0.651	50.7	0.001	0.1	0.001	0.1	-	-	0.630	-	0.630	49.1	1.283
5A	Project Management Unit	0.325	99.2	0.001	0.4	0.001	0.4	-	-	-	-	-	-	0.328
5B	Project Implementation Unit	0.325	100.0	-	-	-	-	-	-	-	-	-	-	0.325
5C	Salary Supplements	-	-	-	-	-	-	-	-	0.630	-	0.630	100.0	0.630
	Land Acquisition and Resettlement	-	-	-	-	-	-	-	-	1.650	-	1.650	100.0	1.650
6	Unallocated	2.427	62.1	0.467	11.9	0.427	10.9	0.110	2.8	0.096	0.385	0.481	12.3	3.910
7	Interest During Construction	0.810	98.4	0.013	1.6	-	-	-	-	-	-	-	-	0.823
	Contingency	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	33.440	65.3	5.000	9.8	4.400	8.6	1.500	2.9	2.376	4.482	6.858	13.4	51.198

* 1 SDR = 1.392 US\$

2.2 LOAN AND GRANT PROCEEDS

Loans and grants utilization by category, as of 30 September 2021 and the status of Financial Management Action Plan (FMAP) are presented in **Appendix C**, and consolidated in **Table 2.2**.



Table 2.2: Consolidated Status of Loan and Grant Proceeds

As of 30 Sep 201

Loan/Grant No.	US Dollars					
	Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
	A	B	C = A - B	D	E = A - D	F = B - D
Loan 2983	33,580,563	32,258,148	1,322,415	27,985,688	5,594,875	4,272,460
Loan 8265	5,000,000	4,873,184	126,816	3,904,235	1,095,765	1,095,765
Grant 0334	1,500,000	1,500,000	-	1,500,000	-	-
Grant 0335	4,400,000	4,349,981	50,019	3,955,033	444,967	394,947
Total	44,480,563	42,981,313	1,499,250	37,344,957	7,135,606	5,763,172

2.3 CONTRACT AWARDS

During Q3 2021, no contract awards works were undertaken. As of 30 September 2021, the contracts awarded by PMU amounted to US\$42, 981,313 million, or 96.6% of the total loan and grant amount. **Figure 2.1** shows the S-curves of the cumulative actual contract awards and original and revised projections/targets. The revision of the targets was made based on the approved reallocation of loan/grant proceeds, and an updated procurement plan.

Figure 2.1: Cumulative Actual Versus Projected Contract Awards

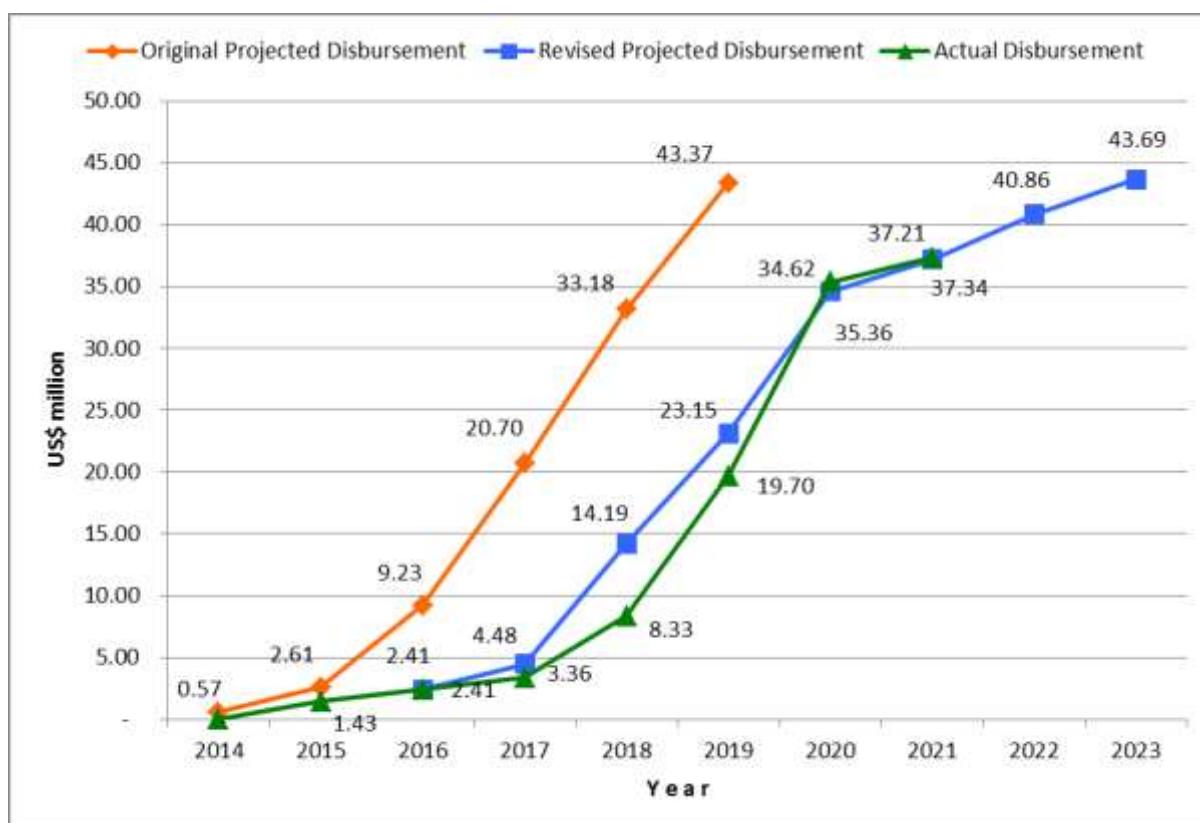




2.4 DISBURSEMENT

Disbursements during Q3 2021 were made through direct payment of CW06 Battambang and CW08 Bavet Drainage, Neak Loeung Flood Control and PISCD Consultants. So far, a total of US\$37.344 million, or 87% of total contract awards, has been disbursed. This is equivalent to 84% of the total loan and grant amount. The S-curves of the cumulative actual disbursements and original and revised projections/targets are shown in **Figure 2.2**. The revision of the targets was made based on the revised projected contract awards and the revised overall project implementation plan.

Figure 2.2: Cumulative Actual Versus Projected Disbursements



2.5 COUNTERPART FUNDS

No replenishment of the RGC counterpart imprest account was made during the reporting period. As of 30 September 2021, the total counterpart fund released to the Project was US\$421,740 or 6 % of the total government contribution.



SECTION 3 IMPLEMENTATION PROGRESS

3.1 OVERALL PROGRESS

As of 30 September 2021, cumulative contract awards and disbursements were US\$42,981,313 million (96.6% of the total loan and grant amount) and US\$37,344 million (87% of total contract awards and 84 of the total loan and grant amount), respectively. Overall physical progress is estimated at around 91% against the planned 91%, with an elapsed time from effectiveness date was 79% of the revised loan and grant period. The physical completion is indicated as a percentage derived from the estimate of the weight contributed by each activity as a percentage of the total project, consistent with the S-curve concept.

Output 1: Strategic local and economic development plans. The preliminary strategic local and economic development plans (SLEDPs) for Battambang, Bavet, Neak Loeung, and Poipet were adopted by the provincial authorities in February 2017. These preliminary SLEDPs have been updated to reflect the recent developments/planning. The national consultant has completed field consultations in all four project towns and collected data/statistics for the analysis. However, these SLEDPs have not been finalized yet given that the international consultant/team leader has resigned and due to COVID-19 pandemic, the replacement cannot be mobilized and conduct final consultations in these towns yet. ADB requests the PMU to find alternative ways in conducting consultations and finalize the documents, e.g. through virtual meetings.

Output 2: Priority urban infrastructure investments implemented. This output contains eight urban infrastructure investments: (i) material recovery facility (MRF) in Poipet, Battambang, and Bavet; (ii) Battambang Storm Drainage; (iii) Bavet Urban Road; (iv) Poipet Storm Drainage; (v) Bavet Storm Drainage; and (vi) Neak Loeung Flood Control. Implementation statuses of these subprojects are summarized below.

Table 3.1: Civil Work Progress (%) against Schedules

Progress as of 30 June 2021	CW-02	CW-03	CW-04	CW-05	CW-06	CW-07	CW-8	CW-10	Total
Planned (%)	100	100	100	100	100	100	100	14	91
Actual (%)	100	100	100	100	100	100	100	15	91
+ - (%)	0	0	0	0	0	0	0	0	0

Note: CW-02: Battambang MRF; CW-03: Bavet MRF; CW-04: Poipet MRF; CW-05: Bavet Urban Road; CW-06: Battambang Storm Drainage; CW-07: Poipet Storm Drainage; CW-08: Bavet Storm Drainage; CW-10: Neak Loeung Flood Control.

Neak Loeung Flood Control Subproject (CW-10):

Overall work progress as of 30 September 2021 was 15%, against 14% the plan target. No work progress in the month of August 2021, the project site and campsite lock down due to the three of the drivers worked at site found them infected COVID-19. The month of September no work carried out in the project due to continuous rain in the whole month.



Material Recovery Facilities (MRFs):

Bavet MRF was proposed for leasing its operating and maintenance by Hybrid Company, the company is based in Bavet town. Svay Rieng provincial administration governor developed draft contract agreement and then will submit to PMU/ PISCD to review and will signed contract agreement between governor and Hybrid Company during this quarter.

Battambang MRF. The operation and maintenance agreement is made and entered into as of 02 November 2020 by and between Battambang municipality (Owner) and Leap Lem Company (operator). This Agreement shall be effective and shall govern the rights and obligations of the parties from and after the date of this agreement for a period of 5 years.

Poipet MRF is in progress of preparing of contract agreement. The MRF will hand over to the private company for operations and maintenance after contract signing.

Bavet Urban Road Subproject (CW-05). All works were completed on 30 July 2020 and the defects liability period ended on 30 July 2021. All defects including the defects identified during the last review mission were rectified.

Battambang Storm Drainage (CW-06). All works were completed on 31 December 2019 and the defects liability period ended on 31 December 2020. All defects including the defects identified during the last review mission were rectified.

Poipet Storm Drainage (CW-07). All works were completed on 31 July 2020 and the defects liability period ended on 31 July 2021. All defects including the defects identified during the last review mission were rectified.

Bavet Storm Drainage (CW-08). All works were completed on 22 November 2020 and the contract is under the defects liability period.

Output 3: Three consultant firms (Detailed Engineering Design, PISCD, CS) and three individual consultants (Environmental Specialist, Procurement Specialist, Financial Management Specialist) were recruited and are supporting PMU to implement the project and build the capacity. 24 out of 26 trainings have been completed. Two additional trainings on O&M of MRF were also completed. Additional trainings on environmental management plan, GRM and gender mainstreaming were planning to conduct in Q3 2021.

Environmental and Social Safeguard & Gender and Training Program:

The activities for Strengthening of Institutional Capacity are presented in Subsection 3.6. Those for Environmental Safeguards are presented in Subsection 5.1. The Resettlement activities are presented in Subsection 5.2. The activities for the Implementation of Gender Action Plan are presented in Subsection 5.3. Those for Assessment of Project Performance through PPMS are presented in Section 4.

3.2 PROCUREMENT

The Project involves the procurement of (i) civil works with an estimated amount of \$38.22 million; (ii) consulting services, \$4.76 million; (iii) goods and equipment, \$0.42 million; and (iv) training, \$0.14 million.

3.2.1 Awarded and Ongoing, and Completed Contracts

As of the end of Q3 2021, the status of procurement is as follows:



- Consulting services Eight Contracts awarded: (i) PISCD Consultant (ongoing), (ii) DED Consultant (completed), (iii) Procurement Specialist (ongoing), (iv) Financial Specialist (ongoing), (v) Construction Supervision (ongoing), (vi) Environmental Specialist (ongoing) (vii) Resettlement Specialist (ongoing) and (viii) External Monitoring (ongoing). The recruitment of all consulting services has been completed.
- Contract variation No.14 for the PISCD consultants regarding additional inputs and time extension for project extension have been submitted to ADB by 26 March 2021. The VO No. 14 was signed on 12 April 2021 after the confirmation of no objection letter from ADB.
- The status of civil works has been completed of contracts is presented below:

Table 3.2: Completed Contracts of Civil Work

Package Number	Sub-projects Contracts have been Completed
CW-01	MRFs (Battambang, Poipet and Bavet).
CW-06	Battambang WWT (Storm Water Drainage)
CW-05	Bavet Urban Road Subproject
CW-01a	MRFs Additional work (Battambang, Poipet and Bavet)
CW07	Poipet Wastewater Treatment (Storm Drainage)
CW8	Bavet Wastewater Treatment (Storm Drainage)

3.2.2 Updated Procurement Plan

Due to budget shortfalls resulting from the depreciation of the SDR, and underestimation of scope of civil works and cost of construction materials in the Feasibility Studies, the EA and ADB understand that not all of the subprojects could be covered under the Project budget. A procurement plan was updated on 03 July 2020 and it is presented in **Appendix D**.

3.3 CONSULTING SERVICES

Consultants were engaged to provide services to support the PIU and PMUs during project implementation, specifically: (i) Project Implementation Support and Capacity Development (PISCD), (ii) Detailed Engineering (DED) Consultant, (iii) Construction Supervision (CS) Consultant, (iv) External Monitoring (EM) Consultant, (v) Procurement Specialist, and (vi) Financial Specialist.

3.3.1 Project Implementation Support and Capacity Development (PISCD)

Contract No. ICB/MPWT/PMU/CTDP1/001 between the Ministry of Public Works and Transport and NJS Consultants Co., Ltd. in Joint Venture with Key Consultants (Cambodia) Ltd. was signed on 04 August 2014. The consultant began mobilizing the consulting team on 15 August 2014.

Activities of the PISCD Consultant included assisting the PMU with Procurement (see Subsection 3.2), Detailed Engineering Design (see Subsection 3.3.2), Strengthening of Institutional Capacity (see Subsection 3.6), Environmental Safeguards (see Subsection 5.1), Resettlement (see Subsection 5.2), Implementation of Gender Action Plan (see Subsection 5.3), and Assessment of Project Performance through PPMS (see Section 4). The PISCD Consultants have also assisted the PMU in the preparation of this Quarterly Report.



The Project Implementation Support and Capacity Development (PISCD) consultant (NJS consulting firm) is responsible for the remaining detailed engineering design tasks after the Detailed Engineering Design contract ended, and for capacity development, including for providing assistance in updating strategic local and economic development plans. The detailed engineering design tasks were completed, but the capacity development tasks remain to be completed. The ADB Mission requests the PISCD to find a replacement for the Team Leader soonest so that all their tasks can be completed by the current contract completion date.

3.3.2 Construction Supervision (CS)

The Construction Supervision consultant (Resources Development Consultants Ltd. /CADTIS-Consultants JV) was engaged to provide assistance in construction supervision of civil works contracts. The construction supervision contract was extended to 31 December 2023 and variation order no. 5 to increase the number of person-months was signed on 12 August 2021 to cover the delay in the construction of Neak Loeung dike. The ADB Mission reminded the PMU to strictly review the utilization of consultant's inputs as there is no budget savings to cover further increase of contract amount anymore.

3.3.4 External Monitoring (EM)

External Monitoring is part of the Safeguards Monitoring for the Project. Environmental and Resettlement Safeguards are to be monitored during the pre-construction, construction and post-construction periods. The Ministry of Economy and Finance (MEF) has engaged an external monitoring consultant to provide EM for resettlement activities and implementation of the Resettlement Plan (RP). The MPWT has engaged an External Monitoring Consultant to provide external monitoring of the implementation of the Environmental Management Plan (EMP).

The sixth semi-annual Environment Safeguards Monitoring Report covering the period from January to June 2020 was submitted to ADB for review and comments on 8 July 2020. ADB provided comments and feedback on 13 October 2020, ADB issue an NOL, and it was disclosed on ADB Website on 28 October 2020.

The seventh semi-annual ESMRs covering July to December 2020 is finalized and submitted to ADB for review and comments by 15 January 2021, ADB issue an NOL, and it was disclosed on ADB Website on 25 January 2021.

The eighth semi-annual ESMRs covering January to June 2021 is finalized and submitted to ADB for review and comments by 15 July 2021. ADB issue an NOL, and it was disclosed on ADB Website on 29 July 2021.

3.3.5 Financial and Procurement Specialists

The Financial and Procurement Specialists who are contracted directly by the PMU are responsible for the preparation of Quarterly Financial Management Report, updating the Procurement Plan and Construction Contract Tendering.

3.4 ADOPTION AND IMPLEMENTATION OF THE SLEDP (OUTPUT 1)

The SLEDPs for Bavet, Neak Loeung, Battambang, and Poipet, which were all prepared in 2011, were reviewed by relevant government agencies and provincial authorities and were adopted by the provincial authorities in February 2017. The PISCD Consultants are working on updating the SLEDPs. Public consultation meetings were completed and data were updated for all four towns and are expected to be approved and disclosure in this quarter 2021.



3.5 IMPLEMENTATION OF PRIORITY URBAN INFRASTRUCTURE INVESTMENTS (OUTPUT 2)

The three MRFs, Battambang Wastewater Treatment (Storm Drainage) Subproject, Bavet Urban Road Subproject, and the Poipet and Bavet Wastewater Treatment (Storm Drainage) have been completed its construction. Neak Loeung Flood Control Subproject (CW-10) is in progress. The preparation activities are started immediately after the contract was signed on 14 December 2020 and after ADB provides a conditional no objection for Detail Resettlement Plan (DRP) on 10 December 2020.

It was agreed by the EA and ADB that the criteria for the prioritization of Subprojects are based on the importance and urgency of works to be done, and readiness in terms of safeguards requirements and detailed engineering designs. The agreed ranking of Subprojects, in order of priority, is shown in **Table 3.3**:

Table 3.3: Ranking of Subprojects, in Order of Priority

Rank	Package	Subproject	Readiness
1	CW02	Battambang Material Recovery Facility	No potential safeguards issues as MRF located adjacent to the existing dumpsite on land that belongs to Battambang town.
2	CW04	Poipet Material Recovery Facility	No potential safeguards issues as MRF located adjacent to the existing dumpsite on land that belongs to Administration of Poipet Municipality. Deputy governor of Administration of Poipet Municipality issued land title on 30 August 2019, confirmed the land 3200 m2 for MRF construction belongs to the government (see support document in Appendix M).
3	CW03	Bavet Material Recovery Facility	No potential safeguards issues as MRF located adjacent to the existing dumpsite on land that belongs to Bavet Town governor. Reference letter No.013 dated 04 May 2018, Bavet Governor provided land 20 ha for construction of MRF and WWTP (see support document in Appendix M).
4	CW06	Battambang Wastewater Treatment (Storm Drainage)	All AHs is fully compensated. No potential safeguards issues happened during subproject implementation.
5	CW05	Bavet Urban Road	All AHs is fully compensated. No potential safeguards issues happened during subproject implementation.
6	CW07	Poipet Wastewater Treatment (Storm Drainage)	All AHs is fully compensated. No potential safeguards issues happened during subproject implementation.



Rank	Package	Subproject	Readiness
7	CW8	Bavet Wastewater Treatment (Storm Drainage)	ADB provide No-objection on 16 October 2019 of the last remaining one effected household to precede civil works was now fully compensated in accordance with the URP as mentioned in the site handover letter dated 01 June 2020 from IRC of MEF sent to MPWT. All AHs are fully compensated.
8	CW10	Neak Loeung Flood Control	The contracts have been signed with 382 affected households (Ahs) out of the total 385 AHs that agree to receive compensation paid, 3 AHs did not agree to their compensation amounts, refused to sign the contracts. All the 3 AHs filed their complaints through Grievance Redress Mechanism (GRM).

3.6 STRENGTHENING OF INSTITUTIONAL CAPACITY

The capacity development program is intended to ensure smooth implementation of the priority subprojects and to provide sustainable operation and maintenance constructed infrastructure.

During the reporting period no training course was conducted, as of Q3 2021 the training session and awareness campaigns by NJS&KCC, PISCD consultants, and contractors as following:

Conducted by NJS and KCC

The training program on MRFs Operation and Maintenance was conducted on Q1 2020 by NJS and KCC in Battambang City (Khemara Battambang I Hotel) on February 4-6, 2020, while the capacity-building training for Bavet MRF was conducted on February 11-13, 2020, which was held in Waikor Hotel, Svay Rieng Municipality, with thirty-seven (37) participants from PMU, PIU, Waste Buyers, Municipality and Authority attended in this training program.

As of Q3 2021, a total of 25 training sessions were conducted by NJS and KCC. A total of 471 participants (PMU, PIU, Authority, and Waste collectors/buyers) attended the training program, 89 of them are women. A complete list of the participants is presented in **Appendix E**.

Conducted by PISCD Consultants

During the reporting period, no training course was conducted by PISCD Consultants, as of the end of Q3 2021; the total training programs conducted by PISCD consultant are as follows:

Health and Sanitation Promoters with support from PIU, PDoWA, DoWA and Sangkat Councilors conducted Environmental Sanitation and Hygiene Promotion to a total 948 (622 women) students and villagers who are living in the SECTDP areas:

- 1) Bavet: conducted Environmental Sanitation and Hygiene Promotion to 385 villagers (249 women).



- 2) Battambang: conducted Environmental Sanitation and Hygiene Promotion to 159 villagers (112 women).
- 3) Poipet: conducted Environmental Sanitation and Hygiene Promotion to 404 villagers (261 women)

The various informal training program was conducted by PISCD consultants at the PIU offices and Contractor's campsite in Poipet, Battambang, Neak Loeung and Bavet. As of Q3 2021, height training sessions have been conducted by PISCD consultants, 1,073 participants attended the training sessions, 651 of them are women. The orientation training course on Environmental Monitoring, GRM and COVID-19 was conducted during this quarter, there are 11 participants attended in the training session, in occasion of Neak Loeung Flood control subproject. A complete list of the participants is presented in **Appendix E**. The training report on Environmental Monitoring, GRM and COVID 19 is presented in the **Appendix Q** and the training report on gender awareness and gender action plan orientation is presented in the **Appendix R**.

Conducted by Contractors

Beijing Urban Construction Group CO., LTD Conducted Training on Solid Waste Recycling Skills at the Battambang Town Dumpsite on 11 September 2019 to waste pickers at the dumpsite and waste pickers from Leap Lim company. There were 52 participants of which 30 are women.

Beijing Urban Construction Group CO., LTD Conducted Training on Concrete Works and Painting Skills in Contractor's office (BEIJING URBAN CONSTRUCTION GROUP CO., LTD), Battambang Town on 25 August 2019 to construction workers. There were 32 participants of which 31 are women.

Beijing Urban Construction Group CO., LTD Conducted Training on Existing Business for Women to 12 villages in Battambang Town on 11-15 July 2019. There were 162 participants of which 99 are women.

Road safety awareness and information campaigns were conducted by Bavet Urban Road construction Contractor in Bavet town on 28-29 June 2019 for school children, communities, and garment factories' workers. There were 497 school children, of which 239 are women, attended in the road safety and awareness campaigns. Similar road safety and awareness campaigns were provided to 42 people from local communities, of which 25 are women and 4,969 garment factories' workers from SHEICO Group garment factory and ELITE (Cambodia) of which 4,848 are women.

MTA Construction CO., LTD and Xingjiang Beixin Road and Bridge Group CO., LTD Conducted HIV/AIDs and STIs awareness campaign in Bavet Town on 22 March – 10 April 2019 to construction workers, entertainment workers, waste pickers, and villagers. There were 191 participants of which 89 are women.

MTA Construction CO., LTD Conducted Training on Existing Business for Women to seven villages in Bavet Town on 13-14 March 2020. There were participants of which 78 are women.

Beijing Urban Construction Group CO., LTD Conducted HIV/AIDs and STIs awareness campaign in Battambang Town between 01 - 31 January 2019 to construction workers, entertainment workers, waste pickers, and villagers. There were 251 participants of which 138 are women.



UNG SIM SIA Construction CO., TLD Conducted HIV/AIDs and STIs awareness campaign in Poipet Town between 01 - 30 November 2019 to construction workers, waste pickers, and villagers. There were 152 participants of which 68 are women.

UNG SIM SIA Construction CO., TLD Conducted Training on Existing Business Improvement for Women to 10 villages in Poipet Town on 27-28 August 2020. There were 165 participants of which 157 are women.

So far, a total of five training sessions and four awareness campaigns were conducted by contractors in Battambang, Bavet and Poipet. The training sessions were attended by 516 participants of whom 399 are women. The awareness campaigns were attended by 6,102 participants of whom 5,407 are women.

A complete list of the participants is presented in **Appendix E**.



SECTION 4 PROJECT PERFORMANCE

4.1 GENERAL

Project performance M&E includes tracking progress from the baseline situation against the targets and the indicators identified in the DMF and assessing progress toward achieving the respective result level outputs, outcome, and impact.

In this Project, although outputs, outcome, and impacts will be achieved only as Subprojects are completed (some of the Subprojects sooner, others later; some fully, others partly), it is necessary to assess the likelihood or degree of the achievement of outputs, outcome and impact already during implementation. The subjectivity of the judgments involved can be reduced by taking into account the implementation progress and, equally important, by realistically reassessing the assumptions and risks that affect outputs and development objectives.

4.2 ASSESSMENT OF ASSUMPTIONS AND RISKS

Assumptions and risks are the external factors that cannot be controlled by the project manager or the executing agencies, but which influences the success of project implementation. These are identified in the DMF. Assumptions explain important conditions that affect project implementation, while risks are the probability or likelihood that key assumptions may not materialize. The assessment of assumptions and risks is presented in **Appendix F**.

4.3 PROJECT PERFORMANCE AGAINST THE TARGETS SET OUT IN THE DMF

M&E of performance indicators involves the tracking and assessment of the degree of attainment and sustainability of Project outputs, outcome, and impact by comparing actual performance, as measured by its corresponding indicator, to the baseline and performance target.

During the report period (Q3 2021) DMF was restructured and approved by ADB, the Project's performance against the targets set out in the DMF is reported in **Appendix G**. As of the end of Q3 September 2021, assessments of progress toward achieving Outputs 1 and 3 (a, and c) are being carried out since the activities toward attaining these outputs have commenced and are ongoing. Progress toward achieving Output 2 (a, b, d, g, and i) and Outcome, however, can only be assessed upon completion of subprojects and during their operation.

The project's DMF has been updated to reflect the change in scope upon the official request from the government including budget reallocation. The project's DMF has been submitted to ADB on November 2020 for approval. It was subsequently restructured and approved in December 2020.

4.4 BASELINE VALUES, PERFORMANCE TARGETS FOR INDICATORS, AND PROJECTED ACHIEVEMENTS

The projected achievements of performance target values for the indicators in the project DMF have been updated based on the results of civil work completed in the 1st, 2nd, 3rd, 4th quarters of 2017, 2018, 2019, 2020 and 2021. The baseline values and performance targets, and projected achievements that have been updated, are discussed in **Appendix H**.



SECTION 5 COMPLIANCE WITH SAFEGUARDS AND COVENANTS

5.1 ENVIRONMENTAL SAFEGUARDS

5.1.1 Environmental Monitoring (Construction of Neak Loeung Flood Control)

Contractor's Environmental Monitoring Monthly Report

The contractor submitted environmental monitoring report from February to September 2021, after reviewed the report, it was noted that the contractor had good practice of environmental mitigation measure in compliance with EMP and environmental protection of Flood Control Dike construction standard, such as waste management, traffic, air pollution, noise and vibration, health, safety, grievance redress mechanism and community perception, photos of environmental mitigation measure are presented in **Appendix O**.

Health and Safety

Good practice on daily morning assembly before starting of work for all staffs, workers and engineers to ensure that every body are equipped with PPE and ensure a good practice measure to cope with COVID-19 such as wearing mask, temperature screening and hand washing. Photos of Covid-19 prevention are presented in **Appendix O**.

Air, Noise and Vibration Measurement

The rainy season ambient air quality measurement had been done in 05 August 2021, the rainy season ambient air quality, noise level and vibration level measurement has been done at Prek Ta Shar village, Neak Loeung commune, Peam Ror district, Preyveng Province. The result is presented as rainy season ambient air quality within project site, detail measuring result is attached in **Appendix P**.

There are 2 locations air quality of selection station, one upwind and another at downwind of the construction site.

Location 1: UTM 48 P 0530903/1242067

Location 2: UTM 48 P 0532526/1244023

Based on the result of air quality, noise level and vibration level examination in August, 2021 indicated that the ambient air quality standard of Cambodia and the other value of noise and vibration level are met the standard value of Cambodia.

Water Quality Testing

On 05 August 2021, water sampling has been collected in project area to test water quality, the result of the water quality in this month represent of the water quality in rainy season, two samples were collected to test in difference station as below:

- a. Sample 1 (S1) sure face water (upstream), UTM 48 P 0531353/1241996
- b. Sample 2 (S2) sure face water (downstream) UTM 48 P 0531022/1242066

The results of the water quality (upstream and downstream) are attached in **Appendix P**. Based on the results indicated that most of parameters are met the standards of the water quality standard of Cambodia, except some parameters of surface water (DO and Total Coliform



of SW-01) is slightly higher than the water quality standard of Cambodia. It can conclude that the water qualities of 2 stations are good quality

Grievance Redress Mechanism (GRM)

The GRM-Complaint Recording Form are in place and the contractor have a key person assigned in responsible to record and received the complaint, as of September 2021, no complaints related to project received to date.

Training

The training on Environmental Monitoring, GRM and COVID-19 was conducted on 22 September 2021 by Environmental Specialist to PMU, PIU, CS, Contractor and commune council during construction of Neak Loeung Flood Control subproject. There 11 participants attended in the training program, one out of them is woman.

Table 5.1.1: Training Contents/Topics

No.	Topic	Sub-Topic	Methodology	Materials
1	Registration	Arrival/Registration of Participants	- Participants fill up registration sheets - Distribution of training Materials	- Registration Sheet - Plastic bags, note books, and pens - Training manual with about 35 pages
2	Brief Overview of the whole project	Refresh project activities in general	- Facilitator ask the participant to recall previous lesson - Power point presentation:	- White board, flip chart and markers - Computer and LCD - Handout
3	Environmental Monitoring	The definition step of monitoring, role and responsibility	- Facilitator ask the participant to recall previous lesson - Power point presentation	- White board, flip chart and markers - Computer and LCD - Handout
4	Environmental monitoring before construction	Impact and mitigation, responsibility and monitoring	- Facilitator ask the participants - Power point presentation	- White board, flip chart and markers - Computer and LCD - Handout



No.	Topic	Sub-Topic	Methodology	Materials
5	Environmental monitoring during construction	Impact and mitigation, responsibility and monitoring	- Presentation and panel discussion	- Handout - Computer and LCD
6	Environmental monitoring after construction	Impact and mitigation, responsibility and monitoring and discussion	- Facilitator ask the participants - Power point presentation	- Handout - Computer and LCD - White board, flip chart and markers
7	GRM	Complaint and resolution, complaint letter and record (logbook), disclosure and discussion	- Facilitator ask the participants - Power point presentation	- Computer and LCD - White board, flip chart and markers
8	Covid-19	key messages on Covid-19 to participants, prevention and mitigation measure, disclosure	- Facilitator ask the participants - Power point presentation	- Computer and LCD - White board, flip chart and markers

5.2 RESETTLEMENT

Neak Loeung Flood Control (CW-10)

On implementation of Neak Loeung (Detailed Resettlement Plan) DRP¹, GDR informed that contracts have been signed with 382 affected households (Ahs) out of the total 385 AHs, compensation paid to date to the 382 AHs of those who signed the contract. 3 AHs did not agree to their compensation amounts, refused to sign the contracts, and one of them requested adjustment to the Corridor of Impact (COI). All the 3 AHs filed their complaints through Grievance Redress Mechanism (GRM).

The subproject site handover was carried out in sections with PK 2+280 to PK 4+150 and PK 3+700 to PK 4+150 (Left Hand Side) handed over to MPWT, and ADB's no objection issued to commencement of works on these sections in March 2021. General Department for Resettlement (GDR) confirmed that all the sections where compensation and other entitlements were fully paid to AHs, except PK4+150 to PK4+225 where these 3

¹ The implementation of DRPs completed for five sub-projects/packages: CW-05, CW-06, additional works of South Earth Canal (2,277m Trapezoidal Earth Canal) under CW-06, CW-07 and CW-08. CW10 is the only package with ongoing DRP implementation.



aforementioned AHs are located were handed over to MPWT. The site handover letter for sites PK0+000 to PK2+000 and the 250m x 165m size pond and pumping station site was issued on 27 August 2021.

Resettlement Issue

There are 3 families in (2 in Prek Khsay Khor commune, and 1 in Neak Loeung commune) are not agreed with the compensation. Two families were brought their complains to commune and district levels. The complains could not be solved. One family at Prek Tasor village, Neak Loeung commune also was not solved at the commune level. GDR will proceed their complain to the higher levels for negotiation.

5.3 IMPLEMENTATION OF GENDER ACTION PLAN

The project is effective gender mainstreaming and the GAP covers 5 activities and 7 quantitative targets and Design and Monitoring Framework (DMF) includes 8 numeric gender indicators.

As of 30 September 2021, the activities for implementation of Gender Action Plan and gender indicators in DMF were accomplished as following:

Four out of seven targets in GAP are completed (about 57%); three targets on-track (about 43%). Two out of five actions are completed/achieved (40%); and three actions are on-track (60%). Two out of four gender features in DMF is completed, and two of four are on track.

GAP Implementation Progress was update and it is presented in **Appendix J**.

5.4 STATUS OF COMPLIANCE WITH LOAN COVENANTS, AND RISK ASSESSMENT AND RISK MANAGEMENT PLAN

There are 35 key loan covenants, out of which thirty (30) have complied, three (3) are ongoing and two (2) are not yet due for compliance. The list of covenants under relevant categories and their status of compliance as of September 30, 2021, is provided in **Appendix K**.

The status of compliance with the Risk Assessment and Risk Management Plan was update and presented in **Appendix L**.



SECTION 6

GRIEVANCE REDRESS MECHANISM (GRM)

6.1 GRM OBJECTIVE

A grievance redress mechanism (GRM), consistent with the requirements of the ADB Safeguard Policy Statement (2009) will be established to prevent and address community concerns, reduce risks, and assist the project to maximize environmental and social benefits. In addition to serving as a platform to resolve grievances, the GRM has been designed to help achieve the following objectives: (i) open channels for effective communication, including the identification of new environmental issues of concern arising from the project; (ii) demonstrate concerns about community members and their environmental well-being; and (iii) prevent and mitigate any adverse environmental impacts on communities caused by project implementation and operations. The GRM is accessible to all members of the community.

6.2 PROPOSED GRM SYSTEM

In Cambodia, there is currently no existing legally established system to resolve environmental concerns and complaints. The MPWT, as the EA of the SECTDP will establish the GRM. The setup shall be made before the commencement of civil works and have members from the PMU, district authority, and commune councils. Grievances can be filed in writing or verbally with any entry point of the GRM. The committee will have 15 days to respond with a resolution. The PMU's Environment Safeguards Officer will oversee the implementation of the mechanism with technical support by PMU's environmental safeguard consultants and will be responsible for keeping the PMU informed. The PIU's Environmental Safeguards Focal Point will be responsible for ensuring GRM implementation at the Subproject level effectively.

6.3 ACCESS TO THE MECHANISM

A well-defined grievance redress and resolution mechanism will be established to resolve grievances and complaints in a timely and satisfactory manner. The PMU, through Environment Safeguards Officer (PMU-ESO) and staff in the MPWT, will ensure that: (i) The public and all stakeholders are aware of their rights to access, and will have access to, the GRM free of administrative and legal charges; and (ii) The GRM is fully disclosed prior to construction: (a) in public consultations, (b) through posters displayed in the commune office (posters to include names and contact details of the PIU-SFP). The GRM is fully disclosed prior to construction: (a) in public consultations, (b) through posters displayed in the commune office (posters to include names and contact details of the PIU).

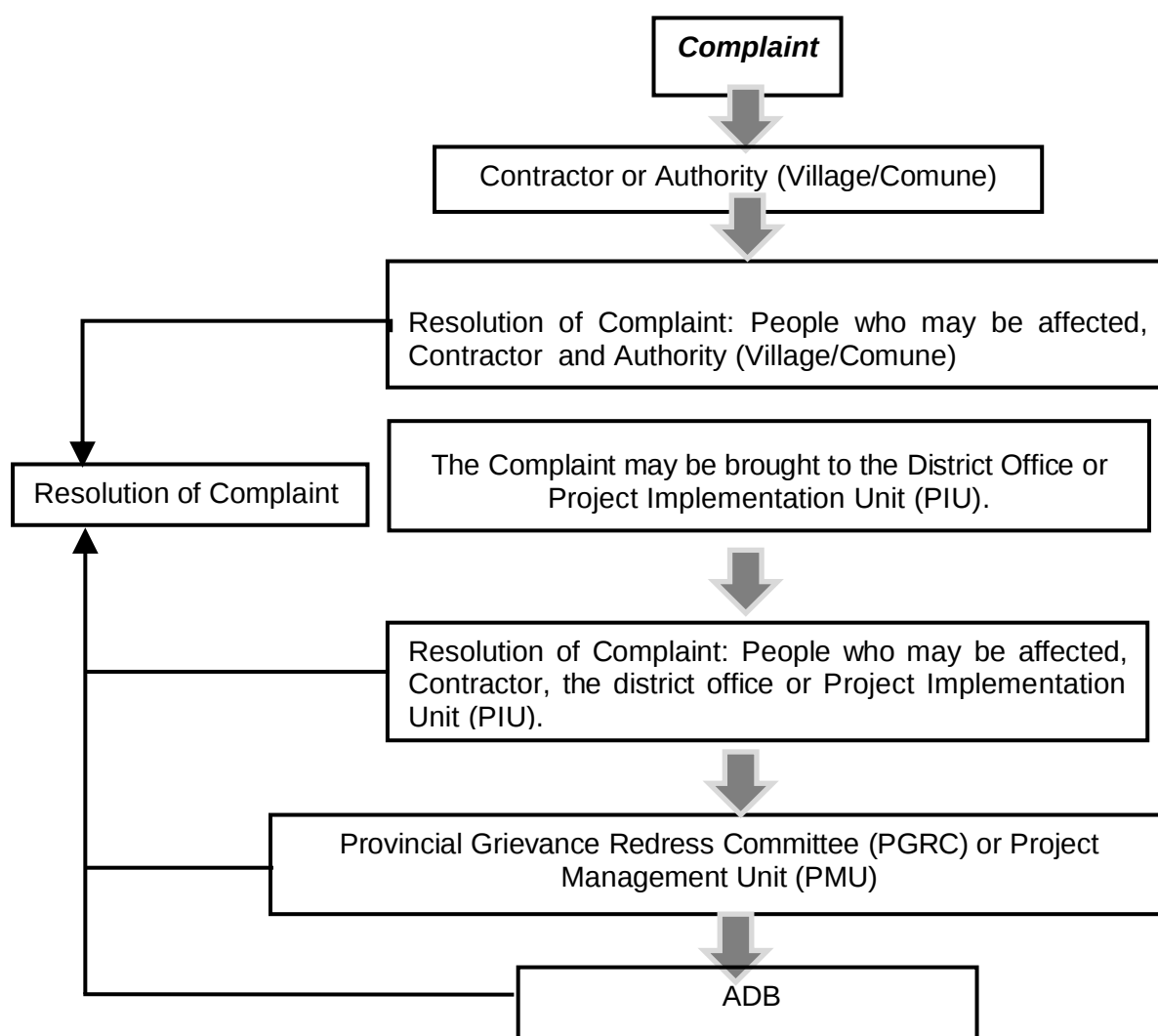
The grievance redress process applies to environmental issues and includes three steps of which three are followed before complaints may be elevated to the ADB as a last resort, as follows:

- (i) 1st step: Complaints and grievances will be provided verbally or in writing to the village chief, commune chief, or to contractor. The receiving agent will provide immediate written confirmation of receiving the complaint. If after 5 days the complainant does not hear from the contractor or not satisfied, the complainant will continue to village chief and then go to commune chief/council if still not satisfied. If after 15 days the complainant does not hear from the contractor, village and commune chiefs or if he/she is not satisfied with the decision taken in the first stage, the complaint may be brought to the District Office or Project Implementation Unit (PIU).



- (ii) 2nd step: The District Office in cooperation with Project Implementation Unit (PIU) has 15 days within which to resolve the complaint to the satisfaction of all concerned. If the complaint cannot be solved at this stage, the District Office or Project Implementation Unit (PIU) will bring the case to the Provincial Grievance Redress Committee (PGRC) or Project Management Unit (PMU) and has to inform the complainant. The Annex 10: GRM-Complaint Recording Form.
- (iii) 3rd step: The PGRC or Project Management Unit (PMU) meets with the aggrieved party and tries to resolve the situation. Within 15 days of the submission of the grievance, the Committee or PMU will make a written decision and submit copies to ADB.

Figure 6.1: Grievance Redress Mechanism Chart





SECTION 7

MAJOR PROJECT ISSUES AND PROBLEMS, AND ACTIONS TAKEN

Table 7.1: The major project issues and problems encountered, and actions taken during Q3 2021 are as follows:

Issues/Problems	Action Taken
O&M of subprojects not sustainability.	Draft hand-over contracts or MOUs with respective local institutions for the rehabilitated urban road and storm drainages will be done prior to DLP ends to ensure the smooth transfer on O&M responsibility of those infrastructures for its sustainability.
Two affect households did not accept the compensation	The District Grievance Redress Committee prepared documents and reports to Provincial Grievance Redress Committee in accordance with legal procedures.
Contractors were not aware of the EMP and Covid-19 prevention requirements, which was one of the reasons for incomplete implementation of the CEMP and prevention of Covid-19.	- Contractors are regularly reminded of their responsibilities. - The recommendations on EMP and Covid-19 prevention to contractors were implemented.
TL Resigned, COVID-19 Cannot Mobilize International Experts for prepare SLEDPs	NJS is looking for the replacement
The meeting in group has been reduced as result some activities could not be done based on the schedule	Organized meeting by VIDEO conference (Skype) with the PMU, MEF, ADB and Contractors for the progress updated for GMS-1 project has been done.
Delay of SLEDPs	- PISCD formulate a new team to complete the reports. - Looking for alternative ways for the final consultation, i.e. virtual conference.



SECTION 8 ACTIVITIES FOR THE NEXT STEPS

The work plans for the next steps is presented in **Table 8.1**

Table 8.1: Work Plan for Next Steps (Q4 2021)

Main Task	Activities to be Carried out	Responsible	Agreed Due Date
Civil Work	Construction supervision and coordination work for implementation of Neak Loeung Subprojects.	CS, PISCD Consultants PMU and PIU	Q4 2021
SLEDPs	The SLEDPs to be updated and disclosed	PISCD Consultants	Q4 2021
Implementation of Gender Action Plan	- Awareness training provided by external HIV organizations and/or NGOs subcontracted by contractors during workforce mobilization for laborers and community surrounding construction locales. - Conduct training on Gender Sensitization and GAP Orientation to Project Stakeholders - Update GAP progress report. - Support civil work to ensure that the gender action targets (30% women unskilled laborers).	PISCD Gender Consultant	Q4 2021
Resettlement	- Resolve and compensate affect households remaining. - Semi-annual Resettlement Monitoring Report	PISCD, PMU/GDR	Q4 2021



Main Task	Activities to be Carried out	Responsible	Agreed Due Date
Environmental Safeguards	• Submit the Eighth Environment Safeguards Monitoring Report covering the period from January to June 2021 to ADB for review and comment. • Draft ESMR July-December 2021 • Site environmental monitoring • Review Contractor's environmental monitoring report.	External and National Environmental Specialist/ PISCD Consultant	Q4 2021
SLEDPs	• Submit SLEDPs to ADB	PMU/ PISCD Consultant	Q4 2021
PPMS	• Updating of projected accomplishments of performance, baseline, and target values. • Data collection/information to prepare Q4 2021 Quarterly Report	PPMS Specialist/ PISCD Consultant	Q4 2021



APPENDIX A

KEY MEMBERS OF PROJECT MANAGEMENT UNIT AND PROJECT IMPLEMENTATION UNITS

A.1 Key Members of the Project Management Unit

PMU Member	Project Responsibility	Phone
1. H.E. Vong Pisith	- Project Director	012 833 411
2. Mr. Sem Kim Choeun	- Project Manager	089 618 778
3. Mr. Pou Manith	- Procurement Officer	012 803 203
4. Ms. Thap Solini	- Financial Officer	
5. Mr. Vong Rada	- Technical Officer and Gender Focus Point	012 451545
6. Mr. Vong Litet	- Social & Environmental Affairs	
7. Mr. Chay Vila	- Municipal Development Planning	092 443 434
8. Mr. Sros Sitharith	- Impact Assessment	
9. Mr. Pal Piseth	- General Administrator	089 383 198
10. Mr. Nuon Sikheng	- Liaison Officer	
11. Ms. Pann Siyon	- Office Support	
12. Mrs. Srey Chea	- Office Support	
13. Mr. Ung Sa Em	- Driver	
14. Mr. Nget Chan Ggoeun	- Driver	
15. Mr. Mao Chansok	- Driver	

A.2 Key Members of Project Implementation Units

PIU Member	Project Responsibility	Phone
Battambang		
1. Mr. Chan Sambo	- Chief of PIU	092 930 966
2. Mr. Dy Pao	- Deputy Chief of PIU	
3. Mrs. Kem Sokuntheary	- Administrative & Financial Officer	092 818017
4. Mr. Prounh Rith Tha	- Technical Officer	
5. Mr. Song Soeung	- Technical Officer	012 975 250
6. Mr. Nou Chamroeun	- Urban Development Plan	017 339 986
7. Ms. Sok Kinna	- Social & Environmental Officer	012 479 030

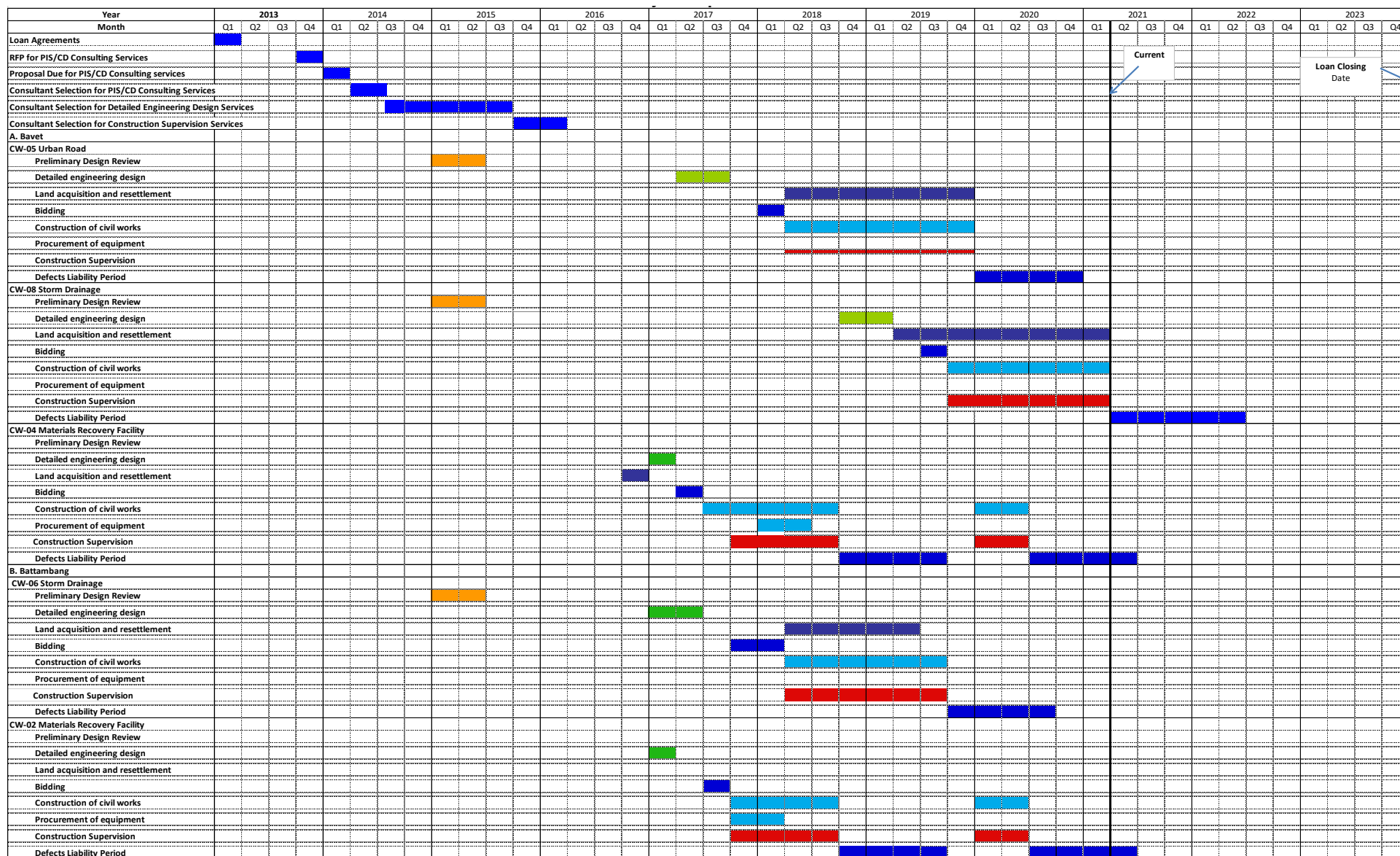


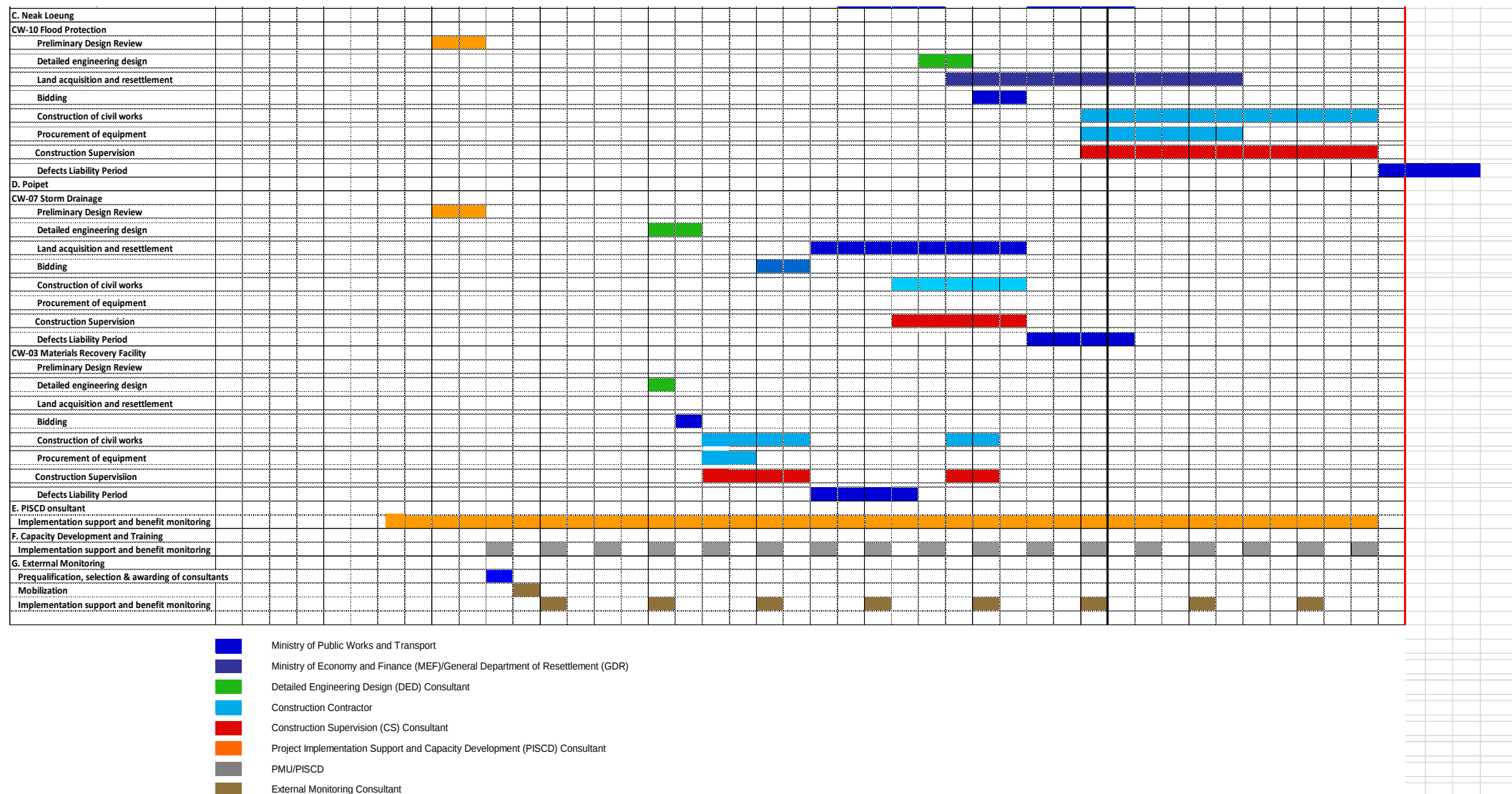
PIU Member	Project Responsibility	Phone
8. Mrs. Toun Bopha	- Impact Assessment	
9. Mr. Nou Chhorvivann	- Coordinator and Gender Focus Point	017 260 560
Poipet		
1. Mr. Chea Sovanthoun	- Chief of PIU	012 220 015
2. Mr. Touch Mony	- Deputy Chief of PIU	012 998 998
3. Mr. Chheang Monin	- Technical Officer	
4. Mr. Orn Siphea	- Technical Officer	012 686 196
5. Mr. Sok Penhnane	- Urban Development Plan	
6. Ms. Chhay Vannin	- Administrative & Financial Officer	012 509 158
7. Mr. Sang Sony	- Social & Environmental Officer	077 319 444
8. Ms. Sophal Leaphea	- Impact Assessment and Gender Focus Point	017 622 270
9. Mr. Rinh Bunchhuoy	- Coordinator	
10. Ms. Pang Chrib	- Office Support	
Neak Loeung		
1. Mr. Kry Rathat	- Chief of PIU	012 497 374
2. Mr. Yaem Pheara	- Deputy Chief of PIU	097 249 3342
3. Mr. Nhem Sokheourn	- Technical Officer	
4. Mrs. Penh Sophea	- Urban Development Plan	031 233 2340
5. Mr. Puth Sophea	- Social & Environmental Officer	088 222 6737
6. Mrs. Phat Sreysros	- Gender & Public Campaign Officer	093 427 117
7. Mr. Prak Sareth	- Impact Assessment	
8. Mrs. Pea Dany	- Office Support	
Bavet		
1. Mr. Noun Lihoun	- Chief of PIU	012 707 616
2. Mrs. Chuon Sovannary	- Deputy Chief of PIU	088 4412888
3. Mr. Yun Raksmeay	- Technical Officer	
4. Mr. Sok Sophal	- Administrative & Financial Officer	097 751 6364
5. Mr. Keo Sarang	- Social & Environmental Officer and Gender Focus Point	088 6440544
6. Mr. Kham Rithy	- Urban Development Plan	097 481 1801



APPENDIX B

REVISED OVERALL PROJECT IMPLEMENTATION PLAN (November 2019)







APPENDIX C LOANS AND GRANTS UTILIZATION

Status of Loan Utilization (Loan 2983)

As of 30 Sep 201							
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01	Works		-	-	-	-	-
1A	CW- Battambang WWT	7,458,031	7,458,032	(1)	7,458,016	16	16
1B	CW- Road and Solid Waste M	9,592,489	9,589,798	2,691	9,563,921	28,568	25,877
1H	CW-Bavet Drain&NL FC	10,481,038	10,006,918	474,120	5,613,762	4,867,276	4,393,156
02A	CS - PISCD	2,839,518	2,843,698	(4,180)	2,524,227	315,291	319,471
02B	CS - DED	629,005	629,004	1	629,004	1	-
02C	CS - Construction Supervision	590,292	590,391	(99)	590,291	1	100
02D	CS - External Monitoring	-	-	-	-	-	-
02E	Add. CS - Const. Supervision	372,886	371,000		152,703	220,183	218,297
03	Equipment	367,306	367,281	25	367,281	25	-
04	Training	-	-	-	-	-	-
05A	Incremental Admin - PMU	309,408	297,573	11,835	247,980	61,428	49,593
05B	Incremental Admin - PIUs	123,987	104,453	19,534	104,453	19,534	-
06	Unallocated	-	-	-	-	-	-
07	Interest During Construction	820,629	-	820,629	495,446	325,183	(495,446)
99	Imprest Account	(4,025)	-	(4,025)	238,605	(242,630)	(238,605)
	Total	33,580,563	32,258,148	1,320,530	27,985,688	5,594,875	4,272,460

Status of Loan Utilization (Loan 8265)

As of 30 Sep 201							
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01	Works						
1A	CW- Battambang WWT	1,828,652	1,828,653	(1)	1,828,648	4	3.96
1H	CW-Bavet Drainage & NL FC	2,257,403	2,156,495	100,908	1,209,768		1,047,634.68
2A	CS - PISCD	577,670	564,762	12,908	501,315	76,355	76,355.04
2B	CS - DED	98,080	98,079	1	98,079	0.81	0.81
2C	CS - Construction Sup.	223,904	223,904	-	223,903	1	0.54
03A	Increment Adm PMU	1,291	1,290	1	1,290	1	0.69
03B	Increment Adm PIU	-	0	(0)	-		
04	Service Charge	13,000	-	13,000	7,081	5,919	5,919.22
05	Unallocated	-	-	-	-	-	-
	Imprest Account	-	-	-	34,150	(34,150)	(34,150.00)
	Total	5,000,000	4,873,184	126,816	3,904,235.06	48,130	1,095,764.94



Status of Grant Utilization (Grant 0334)

As of 30 Sep 201

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01	Works						
01	Material Recovery Facility	1,500,000	1,500,000	-	1,500,000	-	-
	Total	1,500,000	1,500,000	-	1,500,000	-	-

Status of Grant Utilization (Grant 0335)

As of 30 Sep 201

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01	Works						
01A	CW- Battambang WWT	2,665,290	2,665,290	0	2,665,284	6	6
01H	CW- Bavet & NL	866,223	827,523	38,700	464,230	401,993	363,292
02A	CS - PISCD	580,058	568,740	11,318	504,845	75,213	63,894
02B	CS - DED	83,489	83,489	0	83,489	0	-
02C	CS - Construction Sup.	203,549	203,549	-	203,549	0	0
03	Incremental Administration	1,391	1,391	0	1,391	0	-
04	Unallocated						
	Imprest Account	-	-		32,245	(32,245)	(32,245)
	Total	4,400,000	4,349,981	50,019	3,955,033	444,967	394,947



Status of Financial Management Action Plan

Planned Action	Output	Responsibility	Due Date	Actions Taken	Remarks
PMU financial management function established and operational	PMU consulting team of project financial and procurement consultants mobilized, set up project accounting and financial reporting systems and conduct PMU project accounting and financial staff on the job training/refresher course	PMU and MEF	Q1, 2013	The consultants of Financial Management and Procurement were selected. The project accounting and financial reporting system are established and operational. The procurement for the project is operational.	
	Project disbursement arrangements and procedures established and staff trained in their operation	PMU, assisted by PIS consultants	Q1, 2013	The staff joined the training on Disbursement and Financial Management by MEF and ADB	
	TOR for annual independent and external project auditors drafted and auditors appointed	MEF and ADB	Q1, 2014	The External Auditor is selected by MEF and approved by ADB. Project Financial Statement is audited annually and the APFS is submitted to ADB on time.	
Project Steering Committee established and operational	As in Project Management Arrangements section of PAM	EA	Q2, 2013	This committed has been established as stated in PAM	
Project funds flow arrangements adopted & operational	Concerned MEF, EA, PMU and CIU staff all briefed	PMU assisted by PIS consultants	Q2, 2013	The fund flow has been arranged and is smoothly functioned	
Project OPE claims procedures	User units staff briefed on procedures	PMU, assisted by PIS consultants	Q3, 2013	Project OPE claims procedures have been established and are	



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Planned Action	Output	Responsibility	Due Date	Actions Taken	Remarks
established and operational		with ADB input		operational	
Public disclosure of project audited financial and procurement information operational	Project website for information disclosure established and operational	PMU, assisted by PIS consultants	Q3, 2014	Public disclosure of project audited financial and procurement information are posted in the project website. http://wastemanagement.gov.kh/	



APPENDIX D

UPDATED PROCUREMENT PLAN (Updated as of 03 July 2020)

Basic Data

Project Name: Greater Mekong Subregion Southern Economic Corridor Towns Development Project	
Project Number: 43319-033	Approval Number: 2983/8265/0334/0335
Country: Cambodia	Executing Agency: Ministry of Public Works and
Project Procurement Classification: Category A	Implementing Agency: N/A
Project Procurement Risk: Low	
Project Financing Amount: US\$ 54,780,000 ADB Financing: US\$ 37,000,000 Cofinancing (ADB Administered): US\$ 10,900,000 Non-ADB Financing: US\$ 6,880,000	Project Closing Date: - Original: 30 June 2019 - Revised: 30 June 2021 - Revised: 31 December 2023
Date of First Procurement Plan: 10 December 2012	Date of this Procurement Plan: 15 January 2021

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to the procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding for Goods	US\$ 1,000,000 and Above	
National Competitive Bidding for Goods	Beneath that stated for ICB, Goods	The first language version of National Competitive Bidding is subject to prior review, thereafter post review.
Shopping for Goods	Below US\$ 100,000	The first language version of shopping is subject to prior review, thereafter post review.
International Competitive Bidding for Works	US\$ 3,000,000 and Above	
National Competitive Bidding (NCB) for Works	Beneath that stated for ICB, Works	The first language version of National Competitive Bidding is subject to prior review, thereafter post review.
Shopping for Works	Below US\$ 100,000	The first language version of shopping is subject to prior review, thereafter post review.



Consulting Services	
Method	Comments
Consultant's Qualification Selection for Consulting Firm	Prior review
Quality- and Cost-Based Selection for Consulting Firm	Prior review
Individual Consultants Selection for Individual Consultant	Prior review

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value (US\$)	Number of Contracts	Procurement Method	Review (Prior/ Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

The following table lists smaller-value goods, works and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review (Prior/ Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments

Consulting Services							
Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments



B. Indicative List of Packages Required Under the Project

The following table provides an indicative list of goods, works and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works; None							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Comments
N/A							

Consulting Services; None							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Recruitment Method	Review (Prior/Post)	Type of Proposal	Comments
NA							

C. List of Awarded and On-going, and Completed Contracts

The following tables list the awarded and on-going contracts and completed contracts.

1. Awarded and Ongoing Contracts

Goods and Works							
Package Number	General Description	Estimated Value (US\$)	Awarded Contract Value (US\$)	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CW-10	Neak Loeung Flood Control Subproject	8,000,000	7,396,539.12	ICB	6-Mar-2020	28-Jul-20	MTA Construction Co., Ltd

Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CS-01	Project Implementation Support and Capacity Development	2,480,000	2,222,490.00	QCBS	Q1 / 2013	31-JUL-14	NJS Consultants Co., Ltd. VO7 =US\$2,59,2690 VO8 =US\$2,897,629.50 VO9 US\$2,897,629.50 VO10 US\$3,077,568.50
CS-03	Construction Supervision Consultants	1,750,000	1,229,250.00	QCBS	Q3/2015	05 Jan 17	Contract with RDC (lot1= US\$ 825,950, & Lot2= US\$297,300)



2. Completed Contracts

Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Date of Completion	Comments
G-01	Procurement of Vehicles	200,000	166,800.00	NCB	08-Apr-2015	06 Jul 2015	29-Jan-16	RMA (Cambodia) Co., Ltd
G-02	Procurement of Office Equipment	90,000	94,460.00	Shopping	26-Mar-2015	N/A	30-Nov-15	NEEKA Limited
G-03	Procurement of Office Furniture	35,000	24,945.00	Shopping without advertising	N/A	11-Nov-2015	18-Apr-16	LC Office Furniture Shop
G-04	Bavet Transformer 3 phase-100kva	5,000	11,626.00	Shopping without advertising	NA	NA	31-Aug-15	KROI KOR Electricity Supply
G-05	UAV (Drone)	45,000	78,045.00	Shopping	26- Mar -15	NA	30-Jun-16	ENVOSTAR Co., Ltd.
CW-01/1	PMU Office Renovation	15,000	15,091.31	Shopping without advertising	NA	8-Jan-15	25-Jan-16	TAING CHENG ONG CONSTRUCTION CO. LTD.
CW-01/2	Battambang Office Renovation	9,000	9,344.80	Shopping without advertising	NA	NA	24-Mar-16	Vong Reaksmy
CW-01/3	Poipet Office Renovation	7,000	7,049.00	Shopping without advertising	NA	NA	25-May-16	T.M.3 Consulting Co., Ltd.
CW-01/4	Neak Loeung Office Renovation	9,000	9,990.00	Shopping without advertising	NA	NA	21-Apr-16	Y.S.B.
CW-01/5	Bavet Office Renovation	5,000	5,760.00	Shopping without advertising	NA	NA	12-Jul-16	Chhun Nary Import-Export Co., Ltd. Construction Co. Ltd.
G-06	Accounting Software	3,000	2,595.00	Shopping without advertising	NA	NA	26-Sep-16	BIZDIMNSION CO., LTD
G-07	Supply & Installation of Parts for Ford Ranger Plate No. State 25 2-0607	6,000	6151.33	Shopping without advertising	NA	NA	21-Feb-17	RMA (Cambodia) Co., Ltd.



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Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Date of Completion	Comments
CS-02	DED consultants for all 10 subprojects	1,151,000	1,137,175.00	QCBS	Q3 / 2014	19-OCT-15	19- Jun-17	FCG International Ltd.
CS-05	National Procurement Specialist	72,000	27,508.00	ICS	Q1 / 2016	9-June-16	12 June- 17	Contract with Mr. Pheang Pheourn
CS-04	Financial Management Specialist	72,000	32,660.00	ICS	Q1 / 2016	9- June- 16	12 June- 17	Contract with Mr. Mao Dor
CS-06	National Environmental Specialist	60,000	40,934.00	ICS	Q1 / 2016	18 Aug 16		Contract with Mr. Bun San
CW-02	Battambang Materials Recovery Facility Subproject	480,000	424,991.84	NCB	08-May-2017	07-Jul-17	24-Aug-18	Taing Cheng Oing Construction & Import Export Co., Ltd
CW-03	Bavet, Materials Recovery Facility Subproject	420,000	389,826.64	NCB	08-May-2017	07-Jul-17	24-Aug-18	Taing Cheng Oing Construction & Import Export Co., Ltd
CW-04	Poipet Materials Recovery Facility Subproject	490,000	359,571.12	NCB	08-May-2017	07-Jul-17	24-Aug-18	Taing Cheng Oing Construction & Import Export Co., Ltd
CW-05	Bavet Urban Roads Subproject	9,900,000	7,674,956.00	ICB	01-Dec-18	13-Feb-18	30-Jul-20	MTA Construction Co., Ltd and Xinjiang Beixin Road and Bridge Group Co. Ltd (JV)
CW-06	Battambang Wastewater Treatment Subproject	12,000,000	9,368,943.03	ICB	12-Oct-17	03-Jan-18	31-Dec-19	Beijing Urban Construction Group Co., Ltd
CW-07	Poipet Wastewater Treatment Subproject (Drainage)	2,600,000	2,583,030.00	NCB	12-Mar-18	25-Jan-19	31-Jul-20	Ung Simsia Construction Co., Ltd.
CW-08	Bavet Wastewater Treatment Subproject (Drainage)	6,900,000	5594396.85	ICB	27-Jun-19	21-Oct-19	12-Nov-20	Heng Sambat Co., Ltd Import Export Transportation and Construction and Sichuan Xiongzhou Construction Groups Co. Ltd



Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Date of Completion	Comments
								(JV)
CW01a	Additional Works for Material Recovery Facility in Bavet, Battambang and Poipet Towns	254,284	258,533.73	NCB	19-Jun-19	NA	31-May-20	Taing Cheng Oing Construction & Import Export Co., Ltd

D. National Competitive Bidding

A. Regulation and Reference Documents

1. The procedures to be followed for national competitive bidding shall be those set forth for the "National Competitive Bidding" method in the Government's Procurement Manual issued under Sub-Decree Number 74 ANKR.BK, updated version dated 22 May 2012 with the clarifications and modifications described in the following paragraphs. These clarifications and modifications are required for compliance with the provisions of the Procurement Guidelines.
2. For the procurement of ADB financed contracts under National Competitive Bidding (NCB) procedures, the use of harmonized national bidding documents (NCB and National Shopping) developed in consultation with development partners including ADB, is mandatory except where the Government and ADB have agreed to amendments to any part of the documents. The Procurement Manual also advises users to check the ADB website from time to time for any update on ADB documents, which form the basis, among others, of the existing harmonized national bidding documents.

B. Procurement Procedures

1. Application

3. Contract packages subject to National Competitive Bidding procedures will be those identified as such in the Project Procurement Plan. Any change to the mode of procurement of any procurement package in the Procurement Plan shall be made through updating of the Procurement Plan, and only with prior approval of ADB.

2. Sanctioning

4. Bidders shall not be declared ineligible or prohibited from bidding based on barring procedures or sanction lists, except individuals and firms sanctioned by ADB, without prior approval of ADB.

3. Rejection of all Bids and Rebidding

5. The Borrower shall not reject all bids and solicit new bids without ADB's prior concurrence. Even when only one or a few bids is/are submitted, the bidding process may still be considered valid if the bid was satisfactorily advertised and prices are reasonable in comparison to market values.

4. Advertising

6. Bidding of NCB contracts shall be advertised on the ADB website via the posting of the Procurement Plan. Borrowers have the option of requesting ADB to post specific notices in the ADB website.



C. Bidding Documents

5. Use of Bidding Documents

7. The Standard National Competitive Bidding Documents provided with the Government's Procurement Manual shall be used to the extent possible both for the master bidding documents and the contract-specific bidding documents. The English language version of the procurement documents shall be submitted for ADB review and approval in accordance with agreed review procedures (post and prior review) as indicated in the Procurement Plan. The ADB-approved procurement documents will then be used as a model for all procurement financed by ADB for the project.

6. Bid Evaluation

8. Bidders shall not be eliminated from detailed evaluation on the basis of minor, non-substantial deviations.
9. A bidder shall not be required, as a condition for award of contract, to undertake obligations not specified in the bidding documents or otherwise to modify the bid as originally submitted.

7. Employer's Right to Accept or Reject Any or All Bids

10. The decision of the Employer to accept or reject any or all bids shall be made in a transparent manner and involve an obligation to inform of the grounds for the decision through the bid evaluation report.

8. ADB Policy Clauses

11. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.
12. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the Borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question.
13. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, ADB-financed contract.



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Procurement Monitoring and Tracking Form – Works						Loan No.: 2983-CAM (SF), 8265-CAM (SCF), GRANT NO. 0334-CAM (UEIF) &. 0335-CAM (SCF)																	
Project name: Greater Mekong Subregion Southern Economic Corridor Towns Development Project																							
Update: 03-July-2020																							
Procurement Monitoring and Tracking Form																							
Works																							
No	Contract Number	Description of Works	Procurement Method	Prior review (Prior) or Post Review (Post)	Plan (P)/Schedule (S)/Actual (A)	Bidding Documents (BD) and Bidding Process								Bid Evaluation/Contract Award							Contract		
						Cost Estimate/Actual Cost	Completion of Design	Completion of Draft Bid Documents	Submission to PRC	Approval of Draft Bid Docs by PRC	Submission to DP for NOL	NOL by DP	Advertisement of IFB	Bid Closing/Bid Opening	Issue of Minutes to DP/Bidders	Completion of Evaluation by BEC	Submission to PRC	Approval by PRC	Submission to DP	NOL by DP	Issue Letter of Acceptance	Contract Signing	Signed Contract to DP
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	CW-01 LOT 1	Bttambang Materials Recovery Facility Subproject	NCB	Prior	P	480,000.00	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	28-Oct-16
					S	480,000.00	2-Jun-17	23-Jun-17	26-Jun-17	3-Jul-17	6-Jul-17	13-Jul-17	16-Jul-17	30-Aug-17	31-Aug-17	20-Sep-17	23-Sep-17	30-Sep-17	3-Oct-17	10-Oct-17	13-Oct-17	20-Oct-17	26-Oct-17
					A	424,991.84	1-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	2-May-17	8-May-17	7-Jun-17	7-Jun-17	3-Jul-17	3-Jul-17	3-Jul-17	3-Jul-17	7-Jul-17	11-Jul-17	14-Jul-17	25-Jul-17
2	CW-01 LOT 2	Bavet Materials Recovery Facility Subproject	NCB	Prior	P	420,000.00	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	29-Oct-16
					S	420,000.00	2-Jun-17	23-Jun-17	26-Jun-17	3-Jul-17	6-Jul-17	13-Jul-17	16-Jul-17	30-Aug-17	31-Aug-17	20-Sep-17	23-Sep-17	30-Sep-17	3-Oct-17	10-Oct-17	13-Oct-17	20-Oct-17	27-Oct-17
					A	389,826.64	1-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	2-May-17	8-May-17	7-Jun-17	7-Jun-17	3-Jul-17	3-Jul-17	3-Jul-17	3-Jul-17	7-Jul-17	11-Jul-17	14-Jul-17	25-Jul-17
3	CW-01 LOT 3	Poipet Materials Recovery Facility Subproject	NCB	Prior	P	490,000.00	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	27-Oct-17
					S	490,000.00	2-Jun-17	23-Jun-17	26-Jun-17	3-Jul-17	6-Jul-17	13-Jul-17	16-Jul-17	30-Aug-17	31-Aug-17	20-Sep-17	23-Sep-17	30-Sep-17	3-Oct-17	10-Oct-17	13-Oct-17	20-Oct-17	27-Oct-17
					A	359,571.12	1-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	2-May-17	8-May-17	7-Jun-17	7-Jun-17	3-Jul-17	3-Jul-17	3-Jul-17	3-Jul-17	7-Jul-17	11-Jul-17	14-Jul-17	25-Jul-17
4	CW-05	Bavet Urban Roads Subproject	ICB	Prior	P	9,900,000.00	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	30-Oct-16
					S																		
					A	7,674,956.00	30-Sep-17	15-Oct-17	18-Oct-17	22-Oct-17	25-Nov-17	28-Nov-17	1-Dec-17	17-Jan-18	17-Jan-18	26-Jan-18	26-Jan-18	26-Jan-18	07-Feb-18	13-Feb-18	19-Feb-18	28-Feb-18	5-Mar-18
5	CW-06	Battambang Wastewater Treatment Subproject	ICB	Prior	P	12,000,000	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	26-Oct-16
					S																		
					A	9,368,943.03	1-Jun-17	2-Aug-17	3-Aug-17	8-Aug-17	6-Oct-17	6-Oct-17	12-Oct-17	30-Nov-17	30-Nov-17	27-Dec-18	27-Dec-18	27-Dec-18	27-Dec-18	3-Jan-18	5-Jan-18	30-Jan-18	1-Feb-18
6	CW-07	Poipet Wastewater Treatment Subproject (Storm Drain)	NCB	Prior	P	2,600,000	1-Jun-17	22-Jun-17	25-Jun-17	2-Jul-17	5-Jul-17	12-Jul-17	15-Jul-17	29-Aug-17	30-Aug-17	19-Sep-17	22-Sep-17	29-Sep-17	2-Oct-17	9-Oct-17	12-Oct-17	19-Oct-17	25-Oct-17
					S																		
					A	2,583,030.00	20-Oct-17	26-Feb-18	26-Feb-18	1-Mar-18	1-Mar-18	8-Mar-18	12-Mar-18	11-Apr-18	11-Apr-18	27-Apr-18	27-Apr-18	27-Apr-18	30-Apr-18	25-Jan-19	25-Jan-19	28-Jan-19	9-Feb-19
7	CW-08	Bavet Wastewater Treatment Subproject	ICB	Prior	P	3,210,000.00	1-Jun-16	22-Jun-16	25-Jun-16	2-Jul-16	5-Jul-16	12-Jul-16	15-Jul-16	29-Aug-16	30-Aug-16	19-Sep-16	22-Sep-16	29-Sep-16	2-Oct-16	9-Oct-16	12-Oct-16	19-Oct-16	28-Oct-16
					S	6,900,000	1-Mar-19	22-Mar-19	25-Mar-19	1-Apr-19	4-Apr-19	11-Apr-19	14-Apr-19	29-May-19	30-May-19	19-Jun-19	22-Jun-19	29-Jun-19	2-Jul-19	9-Jul-19	12-Jul-19	19-Jul-19	25-Jul-19
					A	5,594,396.85	15-Nov-18	20-Mar-19	01-Apr-19	5-Apr-19	7-Apr-19	3-Jun-19	27-Jun-19	14-Aug-19	14-Aug-19	5-Sep-19	5-Sep-19	5-Sep-19	12-Sep-19	21-Oct-19	21-Oct-19	25-Oct-19	5-Nov-19
8	CW-10	Neak Loeung Flood Control Subproject	ICB	Prior	P	8,800,000.00	30-Aug-19	14-Sep-19	21-Sep-19	27-Sep-19	29-Sep-19	13-Oct-19	20-Oct-19	4-Dec-19	4-Dec-19	13-Jan-20	13-Jan-20	15-Jan-20	18-Jan-20	30-Sep-20	14-Oct-20	28-Oct-20	5-Nov-20
					S																		
					A	7,396,539.12	17-Dec-19	20-Dec-19	25-Dec-19	26-Dec-19	26-Dec-19	25-Feb-20	6-Mar-20	22-Apr-20	22-Apr-20	15-May-20	15-May-20	15-May-20	15-Jun-20	28-Jul-20	11-Dec-20	14-Dec-20	23-Dec-20
9	CW01a	Additional Works for Material Recovery Facility in Bavet, Battambang and Poipet Towns	NCB	Post Review	P	254,284.00	5-Mar-19	8-Mar-19	12-Mar-19	12-Mar-19	N/A	N/A	30-Mar-19	29-Apr-19	29-Apr-19	15-May-19	16-May-19	18-May-19	20-May-19	5-Jun-19	6-Jun-19	28-Jun-19	1-Jul-19
					S																		
					A	258,533.73	15-Mar-19	5-Jun-19	10-Jun-19	10-Jun-19	N/A	N/A	19-Jun-19	18-Jul-19	18-Jul-19	5-Sep-19	5-Sep-19	5-Sep-19	N/A	N/A	8-Oct-19	11-Oct-19	14-Oct-19



Ministry of Public Works and Transport, Kingdom of Cambodia
GMS: Southern Economic Corridor Towns Development Project

No.	Contract No.	Description of Goods	Procurement Method	Prior Review (Prior) or Post Review (Post)	Plan/Py Schedule(S) Actual(A)	Cost Estimate/Actual Cost (US\$)	Completion of draft Bidding Document	Submission to PRC	Approval of draft Bid Docs by PRC	Submit to the Bank for NOL	NOL by the Bank	Advertisement of IFB	Bid submission closing/ public opening	Issue of minute to the Bank bidders	Completion of BER	Submit BER for PRC Approval	Approval by PRC	Submit BER for the Bank's NOL	Receipt of Bank NOL	Notification of Award	Contract signature	Estimated Contract End Date
1	001	Bavet Transformer 3 phase-100kva	Shopping without Advertising	Post	P	5,000.00	1-Feb-15	2-Feb-15	9-Feb-15	NA	NA	NA	19-Feb-15	NA	26-Feb-15	27-Feb-15	6-Mar-15	NA	NA	7-Mar-15	14-Mar-15	28-Mar-15
					S																	
					A	11,626.00	10-Nov-15	11-Nov-15	15-Nov-15	NA	NA	NA	21-Jan-15	NA	4-Feb-15	4-Feb-15	9-Feb-15	N/A	N/A	26-Feb-15	26-Feb-15	12-Mar-15
2	002	Office Equipment	Shopping	Post	P	95,000.00	1-Apr-15	2-Apr-15	9-Apr-15	NA	NA	12-Apr-15	26-Apr-15	NA	3-May-15	4-May-15	11-May-15	NA	NA	12-May-15	19-May-15	18-Jun-15
					S																	
					A	94,460.00	10-Mar-15	15-Mar-15	20-Mar-15	NA	NA	26-Mar-15	22-Apr-15	NA	7-May-15	11-May-15	27-May-15	NA	NA	9-Jun-15	15-Jun-15	7-Sep-15
3	003	Office Furniture	Shopping	Post	P	35,000.00	1-May-15	2-May-15	9-May-15	NA	NA	12-May-15	26-May-15	NA	2-Jun-15	3-Jun-15	10-Jun-15	NA	NA	11-Jun-15	18-Jun-15	18-Jul-15
					S																	
					A	24,945.00	25-Jul-15	28-Jul-15	31-Aug-15	31-Aug-15	11-Sep-15	NA	8-Oct-15	NA	30-Oct-15	30-Oct-15	30-Oct-15	5-Nov-15	11-Nov-15	12-Nov-15	12-Nov-15	19-Nov-15
4	004	7 Vehicles	NCB	Prior	P	210,000.00	2-Feb-15	3-Feb-15	10-Feb-15	NA	NA	13-Feb-15	15-Mar-15	16-Mar-15	30-Mar-15	31-Mar-15	7-Apr-15	NA	NA	10-Apr-15	10-Apr-15	25-May-15
					S																	
					A	166,800.00	10-Nov-14	18-Nov-14	19-Nov-14	21-Nov-14	26-Nov-14	8-Apr-15	11-May-15	NA	20-May-15	20-May-15	27-May-15	24-Jun-15	6-Jul-15	8-Jul-15	13-Jul-15	28-Oct-15
8	008	UAV (Drone)	Shopping	Post	P	45,000.00	11-Dec-16	12-Dec-16	19-Dec-16	NA	NA	22-Dec-16	5-Jan-17	NA	12-Jan-17	13-Jan-17	20-Jan-17	NA	NA	21-Jan-17	28-Jan-17	27-Feb-17
					S																	
					A	78,045.00	5-Dec-15	25-Dec-15	25-Dec-15	NA	NA	30-Dec-15	14-Jan-16	14-Jan-16	27-Jan-16	27-Jan-16	27-Jan-16	NA	NA	2-Mar-16	7-Mar-16	20-Jun-16



Ministry of Public Works and Transport, Kingdom of Cambodia
GMS: Southern Economic Corridor Towns Development Project

No.	Contract No.	Description of Services	Procurement Method	Prior Review (prior) of Post Review (Post)	Plan(Py) Schedule(S) Actual(A)	EOI Stage					RFP Stage					Evaluation Stage							Negotiation Stage											
						Cost Estimate/Actual Cost (US\$)	Completion of draft TOR and REOI	NOL by the Bank for TOR	Advertisement of REOI	REOI closing date and evaluation by CEC	Submit draft RFP and short list to PRC	Approval by PRC	Submit to the Bank's NOL	Receipt of Bank NOL on draft RFP and Short list	RFP sent to short list	Proposal Submission Closing Date	Technical Proposal Opening Date	Completion of Technical Evaluation Report & sent to PRC for approval	Approval by PRC	Submit TER to the Bank for NOL	NOL from the Bank	Invite short list firm to financial proposal opening	Opening of financial proposal qualified firms	Completion of combined tech & fin evaluation report and sent to PRC	Approval by PRC	Submit to the Bank for info	Invitation for contract negotiation	Contract negotiation date	Draft negotiated contract initiated	Submit to the Bank for NOL	NOL by the Bank	Contract Signing	Submit to the Bank for info	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
1	CS02	DED consultants for all 10 subprojects	QCBS	Prior	P	1,150,000.00	20-Oct-14	27-Oct-14	30-Oct-14	30-Nov-14	14-Dec-14	21-Dec-14	22-Dec-14	29-Dec-14	30-Dec-14	29-Jan-15	30-Jan-15	13-Feb-15	18-Feb-15	21-Feb-15	28-Feb-15	01-Mar-15	04-Mar-15	11-Mar-15	18-Mar-15	19-Mar-15	22-Mar-15	25-Mar-15	01-Apr-15	02-Apr-15	09-Apr-15	19-Apr-15	20-Apr-15	
					S																													
					A	1,137,175.00	25-Sep-14	03-Oct-14	10-Oct-14	12-Nov-14	22-Jan-15	29-Jan-15	09-Mar-15	13-Mar-15	26-Mar-15	20-May-15	20-May-15	10-Aug-15	20-Aug-15	20-Aug-15	01-Sep-15	03-Oct-15	10-Sep-15	28-Sep-15	28-Sep-15	28-Sep-15	02-Oct-15	05-Oct-15	05-Oct-15	07-Oct-15	19-Oct-15	26-Oct-15	05-Nov-15	
2	CS03	Construction Supervision	CQS	Prior	P	1,105,524.00	20-Oct-14	20-Oct-15	23-Oct-15	30-Nov-14	14-Dec-14	21-Dec-14	22-Dec-14	29-Dec-14	30-Dec-14	29-Jan-15	30-Jan-15	13-Feb-15	18-Feb-15	21-Feb-15	28-Feb-15	01-Mar-15	04-Mar-15	11-Mar-15	18-Mar-15	19-Mar-15	22-Mar-15	25-Mar-15	01-Apr-15	02-Apr-15	09-Apr-15	19-Apr-15	20-Apr-15	
					S																													
					A	1,229,250.00	24-Jul-15	05-Aug-15	14-Aug-15	18-Sep-15	14-Mar-16	14-Mar-16	14-Mar-16	04-Apr-16	12-May-16	06-Jul-16	06-Jul-16	15-Sep-16	15-Sep-16	22-Sep-16	28-Sep-16	29-Sep-16	06-Oct-16	10-Oct-16	10-Oct-16	30-Nov-16	06-Dec-16	15-Dec-16	15-Dec-16	26-Dec-16	05-Jan-17	16-Jan-17	02-Feb-17	
4	CS01	Project Implementation Support and Capacity Development	QCBS	Prior	P	24,800,000.00	20-Oct-12	27-Oct-12	30-Oct-12	30-Nov-14	14-Dec-14	21-Dec-14	22-Dec-14	29-Dec-14	30-Dec-14	29-Jan-15	30-Jan-15	13-Feb-15	18-Feb-15	21-Feb-15	28-Feb-15	01-Mar-15	04-Mar-15	11-Mar-15	18-Mar-15	19-Mar-15	22-Mar-15	25-Mar-15	01-Apr-15	02-Apr-15	09-Apr-15	19-Apr-15	20-Apr-15	
					S																													
					A	2,280,000.00	11-Mar-13	15-Mar-13	29-Apr-13	14-May-13	20-Aug-13	26-Aug-13	18-Sep-13	09-Dec-13	23-Dec-13	06-Feb-14	06-Feb-14	08-Apr-14	08-Apr-14	11-Apr-14	02-May-14	12-May-14	21-May-14	20-May-14	22-May-14	22-May-14	20-Jun-14	26-Jun-14	20-Jul-14	24-Jul-14	31-Jul-14	04-Aug-14	11-Aug-14	

No.	Contract No.	Description of Services	Procurement method	Prior Review (prior) or Post Review (Post)	Plan/Py Schedule(S) Actual(A)	EOI Stage					Evaluation Stage					Negotiation Stage					
						Govt Estimate/Actual Cost (US\$)	Completion of draft TOR and REOI	NOL by the Bank for TOR	Advertisement of REOI	REOI Submission closing date	EOI Evaluation by CEC	Evaluation submit to PRC	Approval of EOI Evaluation by PRC	Submit to the Bank for NOL	NOL from the Bank	Contract negotiation date	Draft negotiated contract initiated	Submit to the Bank for NOL	NOL by the Bank	Contract Signing	Submit to the Bank for info
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1		National Environment Specialist	Selection of Individual Consultant	Prio	P	60,000.00	10-Nov-15	17-Nov-15	22-Nov-15	17-Dec-15	31-Dec-15	3-Jan-16	10-Jan-16	13-Jan-16	20-Jan-16	27-Jan-16	1-Feb-16	4-Feb-16	11-Feb-16	14-Feb-16	17-Feb-16
					S																
					A	40,934.00			28-Dec-15	19-Jan-16	23-Feb-16	23-Feb-16	23-Feb-16		5-May-16			15-Aug-17	18-Aug-17	24-Oct-16	1-Sep-17
3		National Financial Management Specialist	Selection of Individual Consultant	Prio	P	36,000.00	10-Jan-16	17-Jan-16	22-Jan-16	16-Feb-16	1-Mar-16	4-Mar-16	11-Mar-16	14-Mar-16	21-Mar-16	28-Mar-16	2-Apr-16	5-Apr-16	12-Apr-16	15-Apr-16	18-Apr-16
					S																
					A	32,660.00			12-Jan-16	28-Jan-16			23-Feb-16	23-Feb-16		11-May-16	11-May-16			10-Jan-16	
4		National Procurement Specialist	Selection of Individual Consultant	Prio	P	36,000.00	10-Jan-16	17-Jan-16	22-Jan-16	16-Feb-16	1-Mar-16	4-Mar-16	11-Mar-16	14-Mar-16	21-Mar-16	28-Mar-16	2-Apr-16	5-Apr-16	12-Apr-16	15-Apr-16	18-Apr-16
					S																
					A	27,508.00			12-Jan-16	28-Jan-16			23-Feb-16	23-Feb-16	5-May-16	11-May-16	11-May-16			10-Jan-16	



APPENDIX E LIST OF CAPACITY DEVELOPMENT AND TRAINING CONDUCTED

Training Course Conducted By NJS and KCC

Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
	MEFs Operation and Maintenance	4-6 and 11-13 February 2020	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province. Waikor Hotel, Svay Rieng Municipality.	PMU PIU BB PIU PP PIU BV Waste Buyer Authority Municipality	0 2 1 1 7 0 0	1 2 3 4 10 2 4	1 4 4 5 17 2 4
				Total	11	26	37
11.1	Urban Asset Management	27-28 February 2018	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PMU PIU BB PIU PP PIU NL PIU BV	1 2 0 0 0	0 1 2 2 2	1 3 2 2 4
				Total	3	7	10
3.2	GIS Mapping by using computer software ArcMAP	08-12 January 2018	Guest house Svay Rieng Red Cross National Road No.1, Svay Rieng City	PMU PIU BB PIU PP	0 0 0	0 3 3	0 3 3



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				PIU NL	0	3	3
				PIU BV	0	2	2
				Total	0	11	11
4.1	Best Practices in Project Management of ODA funded Project	18-20 December 2017	Destiny Cafe, National Road No.5, Poipet Municipality, Banteay Meanchey Province	PMU	1	2	3
				PIU BB	2	2	4
				PIU PP	1	3	4
				PIU NL	1	3	4
				PIU BV	-	4	4
				Total	5	14	19
1.4	Consultation and Participation Approaches for Safeguards	21-22 December 2017	Destiny Cafe, National Road No.5, Poipet Municipality, Banteay Meanchey Province	PMU	1	2	3
				PIU BB	2	2	4
				PIU PP	1	3	4
				PIU NL	1	3	4
				PIU BV	-	4	4
				Total	5	14	19
10.2	Monitoring Compliance of Social and Environmental Safeguards	29-30 November 2017	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PMU	-	2	2
				PIU BB	2	3	5
				PIU PP	2	2	4
				PIU NL	1	4	5
				PIU BV	-	4	4
				Total	5	15	20
10.1	PPMS Training, Physical and	27-28 November	Khemera Battambang 1 Hotel,	PMU	-	2	2



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
	Financial Progress Reporting	2017	Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PIU BB PIU PP PIU NL PIU BV Total	2 2 1 - 5	3 2 4 4 15	5 4 5 4 20
4.4	Human Resource Development	16-17 November 2017	Mittapheap Hotel, House No.01, National Road No.11, Prey Veng City	PMU PIU BB PIU PP PIU NL PIU BV Total	- 1 - - - 1	- 2 2 2 2 8	- 3 2 2 2 9
4.3	Project Administrative Management Procedures	13-15 November 2017	Mittapheap Hotel, House No.01, National Road No.11, Prey Veng City	PMU PIU BB PIU PP PIU NL PIU BV Total	1 1 - - - 2	2 2 2 2 2 10	3 3 2 2 2 12
7.2	Resettlement	27-28 September 2017	Guest house Svay Rieng Red Cross National Road No.1, Svay Rieng City	PMU PIU BB PIU PP PIU NL PIU BV	1 2 1 1 -	4 2 3 3 2	5 4 4 4 2



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				Total	5	14	19
4.2	Work and Financial Planning	25-26 April 2017	Mittapheap Hotel, House No.01, National Road No.11, Prey Veng City	PMU	-	3	3
				PIU BB	1	1	2
				PIU PP	1	1	2
				PIU NL	-	2	2
				PIU BV	-	2	2
				Total	2	9	11
8.4	Environmental Safeguards on Urban Infrastructure Investment	15-16 Marc 2017	Waikor Hotel in SvayRieng Province	PMU	-	1	1
				PIU BB	2	2	4
				PIU PP	-	3	3
				PIU NL	-	5	5
				PIU BV	-	4	4
				Total	2	15	17
8.3	Climate Resilience Measure	13-14 Marc 2017	Waikor Hotel in SvayRieng Province	PMU	-	3	3
				PIU BB	2	2	4
				PIU PP	-	4	4
				PIU NL	-	6	6
				PIU BV	-	5	5
				Total	2	20	22
9.1	Gender Action Plan	4-5 Jan 2017	Destiny Cafe, National Road No.5, Poipet Municipality, Banteay Meanchey Province	PMU	1	1	2
				PIU BB	2	-	2
				PIU PP	1	3	4



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
	Refresher Course on Gender Action Plan	8-9 Aug 2018	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PIU NL	1	3	4
				PIU BV	-	3	3
				Total	5	10	15
				PMU	1	4	5
				PIU BB	2	2	4
				PIU PP	1	3	4
				PIU BV	-	4	4
				GMAG	1	-	1
				MoWA	1	-	1
				PDWA	3	-	3
				PHD	2	-	2
				Contractor	-	3	3
				Total	11	16	27
3.1	Town Mapping and Aerial Image Data Collection	05 -09 Dec. 2016	Emerald Hotel, Street 208, Rumchek 4 Village, Ratanak Commune, Battambang District, Battambang	PMU	-	2	2
				PIU BB	-	1	1
				PIU PP	-	1	1
				PIU NL	-	1	1
				PIU BV	-	1	1
				Total	0	6	6
7.1	Poverty and social impact assessment	25 - 27 Oct. 2016	Mittapheap Hotel, House No.01, National Road No.11, Prey Veng City	PMU	-	2	2
				PIU BB	2	2	4
				PIU PP	1	3	4



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				PIU NL	1	3	4
				PIU BV	-	4	4
				Total	4	14	18
2.4	Fundamentals of Flood Protection and Drainage	20 -21 Oct. 2016	Destiny Cafe, Palalay Village, National Road No.5, Municipality Poipet, Banteay Mean Chey Province	PMU	1	1	2
				PIU BB	1	2	3
				PIU PP	-	3	3
				PIU NL	-	2	2
				PIU BV	-	2	2
				Total	2	10	12
2.3	Fundamentals of Solid Waste Management and Sanitary Landfill	18 -19 Oct. 2016	Waikor Hotel in Svay Rieng Province	PMU	-	3	3
				PIU BB	1	2	3
				PIU PP	-	3	3
				PIU NL	-	2	2
				PIU BV	-	2	2
				Total	1	12	13
1.1	Overview of Urban Infrastructure Development	22-23 Sept. 2016	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PMU	1	3	4
				PIU BB	2	5	7
				PIU PP	1	8	9
				PIU NL	-	4	4
				PIU BV	-	5	5
				Total	4	25	29
1.3	Gender Sensitization and Awareness	21 Sept. 2016	Khemera Battambang 1 Hotel,	PMU	1	3	4



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
			Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PIU BB	2	5	7
				PIU PP	1	8	9
				PIU NL	-	4	4
				PIU BV	-	5	5
				Total	4	25	29
1.2	Coordination and Networking Mechanisms	19-20 Sept. 2016	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PMU	1	3	4
				PIU BB	2	5	7
				PIU PP	1	8	9
				PIU NL	-	4	4
				PIU BV	-	5	5
				Total	4	25	29
2.2	Fundamentals of Wastewater Treatment Systems	08-09 Sept. 2016	Waikor Hotel in Svay Rieng Province	PMU	1	3	4
				PIU BB	0	3	3
				PIU PP	0	3	3
				PIU NL	0	3	3
				PIU BV	0	3	3
				Total	1	15	16
2.1	Fundamentals of Sewer Systems	06 -07 Sept. 2016	Waikor Hotel in Svay Rieng Province	PMU	1	3	4
				PIU BB	-	3	3
				PIU PP	-	3	3
				PIU NL	-	3	3
				PIU BV	-	3	3



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				Total	1	15	16
8.2	Updating the Environmental Management Plan	04-05 Aug. 2016	Tonle Basac II, Phnom Penh	PMU	-	2	2
				PIU BB	1	1	2
				PIU PP	-	2	2
				PIU NL	-	2	2
				PIU BV	-	2	2
				Total	1	9	10
8.1	Integration of Environmental Management element into the project cycle	02-03 Aug. 2016	Cambodiana Hotel and Tonle Basac II, Phnom Penh	PMU	-	3	3
				PIU BB	3	3	6
				PIU PP	-	6	6
				PIU NL	-	5	5
				PIU BV	-	5	5
				Total	3	22	25
25 Modules				Grand Total	89	382	471



Training Course Conducted By PISCD Consultants

Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
08	Refresher Course on Environmental Monitoring, GRM and COVID-19	22 September 2021	Neak Loeung PIUs' Office	PIU	1	2	3
				PMU	0	2	2
				Contractor NL	0	2	2
				CS	0	1	1
				Commune Council	0	2	2
				District Environmental Officer	0	1	1
				Total	1	10	11
07	Refresher Course on Environmental Monitoring, GRM and Reporting	13 March 2020	Bavet PIUs' Office	PIU	1	3	4
				CS	0	2	2
				Cont Bavet	0	3	3
				Cont MRFs	0	3	3
				Commune Council	0	1	1
				Bavet City Hall Official	0	1	1
				Total	1	13	14
06	Environmental Sanitation and Hygiene Promotion	April – May 2019	Students and villagers who are living in the SECTDP areas	Bavet	249	136	385
				BTB	112	47	159



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				Poipet	261	143	404
				Total	622	326	948
05	Clinic Training course on EMP and GRM, by ADB	12-13 June 2019 in Poipet	Poipet and Bavet PIUs' Office	PMU	0	1	1
				PIU PP	0	2	2
				PIU BV	1	4	5
				Contractor PP	0	3	3
				Contractor BV	1	3	4
				CS PP	0	1	1
				CS BV	0	2	2
				Commune Council PP	0	2	2
				Commune Council BV	0	1	1
				Total	2	19	21
04	Training course on EMP and GRM	12-13 June 2019 in Poipet	Poipet PIUs' Office	PMU	0	1	1
				PIU	1	2	3
				Contractor	0	4	4
				CS	0	1	1
				Total	1	8	9
03	Conducted TOT on Environmental Sanitation and	05-06 in Bavet, 12-13 in BTB and	PIUs' Office	PMU	1	5	6
				PIU BB	1	2	3



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
	Hygiene Promoter	Poipet in 14-15 March 2019		PIU PP PIU BV Sanitation promoters PDWA and DoWA Total	1 - 3 4 10	3 3 3 1 17	4 3 6 5 27
02	Refresher Course on GAP	08-09 August 2018	Khemera Battambang 1 Hotel, Chhrey Kourng Village, Sla Kaet Commune, Battambang District, Battambang Province.	PMU PIU BB PIU PP PIU NL PIU BV Total			
					11	16	27
01	Environmental Management and Monitoring Plan	19-20 July 2018	Contractor's campsite in Battambang	PMU PIU BB PIU PP Cont. Road PIU BV CS Cont. MRF Cont. Drainage BB	- 1 1 - - - - 1	2 1 1 3 2 1 1 3	2 2 2 3 2 1 1 4



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				Total	3	13	16
8 Courses				Grand Total	651	422	1,073



Training Course and Campaign Conducted By Contractors

Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
05	Solid Waste Recycling Skills	11 September 2019	Dumpsite of Battambang Town, Kingdom of Cambodia.	Waste Pickers	30	22	52
				PIU	-	1	1
				PPMS	-	1	1
				Gender Specialist	1	-	1
				COMPED Organization	1	1	2
				CS	-	1	1
				Contractor	1	2	3
				Total	33	28	61
04	Training on Existing Business Improvement for Women	11-15 July 2019	12 villages in Battambang town.	Participants	99	63	162
		13-14 March 2020	7 villages in Bavet town.	Participants	78	18	96
		27-28 August 20	10 villages in Poipet town	Participants	158	7	165
				Total	335	88	423
03	Training on Concrete Works and Painting Skills	25 August 2019	Contractor's office (BEIJING URBAN CONSTRUCTION GROUP CO., LTD), Battambang Town, Kingdom of Cambodia.	Women Workers	31	1	32
				Total	31	1	32
02	Road Safety Awareness	28-19 June 2019	Hun Sen Bavet Primary School, Bavet General and Technical High	Primary School	157	186	343



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
	Campaign in Bavet Town		School, SHEICO Group and ELITE (Cambodia) garment factory and pagoda of Bavet town	High School	82	72	154
				SHEICO Group	2,401	51	2,452
				ELITE	2,447	70	2,517
				4 Villagers	25	17	42
				Total	5,112	396	5,508
01	HIV/AIDs and STIs awareness campaign	01-31 January 2019 in BTB and 22 March-10 Apr 2019 in Bavet	12 villages, 4 Sangkat (Rattanak, Preack Preah Sdach, Anlong Vil and Ou Char)	Battambang			
				Rattanak	67	40	107
				Ou Char	10	11	21
				Prek Preah Sdach	37	42	79
				Anlong Vil	24	20	44
				Sub-Total	138	113	251
				Bavet			
				Sub-Total	89	102	191
				Total	227	215	442
				Poipet			
				Villager	49	38	87



Module	Title	Date	Venue	Agency	Participants		
					Female	Male	Total
				Worker	2	39	41
				Waste Pickers	17	7	24
				Sub-Total	68	84	152
	Training Course Conducted by Contractor			Grand Total	399	117	516
	Awareness Campaign Conducted by Contractor			Grand Total	5,407	695	6102



APPENDIX F ASSESSMENT OF ASSUMPTIONS AND RISKS

MONITORING AND EVALUATION OF ASSUMPTION AND RISKS
GMS: Southern Economic Towns Development Project

M&E Form no. 7A
Version: June 2015

Reporting Date: 30 September 2021 Prepared by: PMU/PIUs assisted by Nat'l. M&E Specialist
[Quarterly] [PMU/PIUs]

Assumption / Risk for Outputs		Rating (HS,S,PS,U)	Assessment of Current Status
Assumptions:			
1.	Local authorities endorse the SLEDPs and associated budgets	S	The SLEDPs are targeted to be updated in 2021
2.	Women's participation in SLEDP preparation increased, women's needs identified through participatory processes and reflected in the SLEDPs	S	The SLEDPs updated on 2021 when women's participation will be encouraged.
3.	Environmental and social risks can be mitigated	S	EMPs and RPs and was addressed in DED & adequately considered in the bid documents.
4.	Priority infrastructure will promote gender equality and/or women's empowerment by improving women's access to, and use of opportunities, services, resources, and assets; and contribute to increased participation in decision making	S	GAP will be addressed in the DED and adequately considered in the bid documents.
5.	Capacity development activities take gender balance into account	PS	20% of women participated in CD activities
6.	Specific training on gender aspects & issues provided to all staff of executing & implementing agencies & project implementing units	S	Specific training on Gender Action Plan & Gender sensitization and awareness provided to all staff, 44 staffs of PMU&PIUs attended in training, 9 out of them are women.

Risks:		Mitigated (Y/N)	Rating (HS,S,PS,U)	Assessment of Current Status
1.	Local authorities do not recognize the need for continued capacity development	Y	S	Satisfactory attendance in training
2.	Required budgets for sustaining operations are not allocated	Y	S	Most of subprojects have been completed of construction, and hand over to PDPWT for operation and maintenance
3.	Delayed or incomplete settlement of land acquisition and resettlement entitlements	Y	S	ADB has no objection to allow the contractor to proceed civil works



Ministry of Public Works and Transport, Kingdom of Cambodia
GMS: Southern Economic Corridor Towns Development Project

Risks:	Mitigated (Y/N)	Rating (HS,S,PS,U)	Assessment of Current Status
			from 5 April 2021 onwards based on the IRC's handover letter on 15 March 2021
4. Lack of municipal quality control and performance evaluation	Y	HS	Most of subprojects have been completed of construction. Construction works of Neak Loeung Flodd Control has been started on 5 April 2021. CS started activities on 5 April 2021 too.

a/ HS = Highly Satisfactory; S = Satisfactory; PS = Progressing Satisfactorily; U = Unsatisfactory

MONITORING AND EVALUATION OF ASSUMPTION AND RISKS
GMS: Southern Economic Towns Development Project

M&E Form no. 7B
 June 2015

Reporting Date: 30 September 2021 Prepared by: PMU/PIUs assisted by Nat'l. M&E Specialist
 [Quarterly] [PMU/PIUs]

Assumption / Risk for Outcome and Impact		Rating (HS,S,PS,U)	Assessment of Current Status
Outcome: Urban infrastructure improved and climate resilience enhanced in Battambang, Bavet, Neak Loeung, and Poipet - from 2018 to 2023			
Assumptions:			
The government remains committed to sustainable management of urban infrastructure as a national development priority		HS	There is strong support from National and provincial governments.
Risks:	Mitigated (Y/N)	Rating (HS,S,PS,U)	Assessment of Current Status
Government regulations do not fully support sustainable decentralized operation and maintenance of urban infrastructure	-	-	O&M of infrastructure to start by Q4 2020.
Impact: The towns of Battambang, Bavet, Neak Loeung & Poipet will become centers of economic activity in the Southern Economic Corridor - by 2025			
Assumptions:		Rating (HS,S,PS,U)	Assessment of Current Status
Government remains fully committed to the Project			
Risks:	Mitigated (Y/N)	Rating (HS,S,PS,U)	Assessment of Current Status
Corridor towns unable to collect revenue for wastewater treatment plants, sanitary landfill, and solid waste management	-	-	The implementation of these subprojects is deferred and change to new project start in 2020.

a/ HS = Highly Satisfactory; S = Satisfactory; PS = Progressing Satisfactorily; U = Unsatisfactory



APPENDIX G

DMF TARGETS VS ACHIEVEMENTS

(As of 30 September 2021)

Ref.	Indicators	Unit of Measurement	Baseline Year	Baseline Value	Target Year	Target Value	Data Source	Achievements		Progress/Status
								Value	Indicator Details	
Outcome: Urban infrastructure improved and climate resilience enhanced in Battambang, Bavet, Neak Loeung, and Poipet										
a.	Between 2013-2023: Improved access to urban infrastructure affects 558,220 inhabitants (cumulative figure) in four project towns.	Number	2007	0	2023	558220	Provincial and district/town statistics			Ongoing. Construction of eight physical priority infrastructures is either finished defect liability period and ongoing. As of 30 September, 2021, overall physical progress is estimated at around 91%. The last remaining civil work (Neak Loeung Flood Control Subproject) is signed the contract on 10 December 2020, and the commencement of works is 5 April 2021.
b.	Urban areas affected by perennial flooding reduced by 30%.	Percent	2007	0	2023	30	Provincial and district/town statistics			Not due yet. No assessment yet. Likely to achieve after completion of civil works. It was observed that the recent built



										infrastructures, particularly storm drainages in Battambang, Bavet and Poipet, are functioning well and the cities areas covered by those storm drainage networks are not flooded as before during this rains and flooding season in 2020 and 2021.
c.	Annual economic impact of poor sanitation, accounting to a loss of \$33 in 2005 per capita per year, reduced by 40%.	Value	2005	33	2023	19.8	Provincial and district/town statistics			Not due yet. No assessment yet.
Output 1: SLEDP adopted and implemented in Battambang, Bavet, Neak Loeung, and Poipet										
a.	By 2021: SLEDPs with sex specific and climate resilience measures incorporated, adopted and disclosed, updated as required. [Baseline: 2010 no such	Y/N	2010	N	2020	Y	Local development plans of IAs and corridor towns			Ongoing. The preliminary SLEDPs were prepared and adopted by the provincial authorities of each project province in February 2017. The SLEDPs is being revised by considering recent developments in the project towns and planned to disclose in Q4 2021.



b.	Development Plans available]. Gender awareness and sensitization training for 30 EAs/IAs staff conducted.	Number	2011	0	2021	30	Local development plans of IAs and corridor towns	21		Ongoing. As of 15 October 2020, 21 women (70% of target) from PMU/PIUs staff, provincial department of women's affairs, and contractors have received training on Gender Awareness and Sensitization. The training will continue on Q4 2021
Output 2: Priority urban infrastructure investments implemented										
a.	Priority infrastructure operational by 2021.	Y/N	2011	N	2021	Y	Subproject completion reports of IAs			Ongoing. As of 30 September 2021, actual physical progresses were 100% for the three MRFs, Battambang Storm Drainage, Bavet Urban Road and Storm Drainage and Poipet Storm Drainage. Neak Loeung Flood Control Subproject (CW-10) is under construction. Storm drainages in Battambang, Bavet and Poipet are functioning well and the cities areas covered by those storm drainage networks are



										not flooded as before during this rainy and flooding season in 2020. Improved urban road including side drainages at Bavet city has been in service and reduced the traffic congestions as well as rainwater floods.
b.	Battambang: 3. Materials Recovery Facility - 30 cubic meters of recyclables per day segregated benefiting 128,000 residents.	Value	2011	0	2021	30	Quarterly and annual progress reports of IAs			Completed Transferring ownership of the MRF to Battambang Municipality and then it was leased to the private operator for O&M.
c.	30% of construction workers to be hired under the Project are female.	Percent	2011	0	2021	30	Quarterly and annual progress reports of IAs	32%		Ongoing. As of 31 December 2020, average 32% of female workers were hired by contractors of MRFs, Battambang Storm Drainage, Bavet Urban Road, Poipet Storm Drainage, and Bavet Storm Drainage.
d.	Bavet: 6. MRF - 30 cubic meters of recyclables per day segregated, benefiting	Value	2011	0	2021	30	Quarterly and annual progress reports of IAs			Ongoing. Transferring ownership of MRF to provincial administration /Municipality and/or then to private operator is expected by 31



	24,000 residents.									December 2021.
e.	Battambang: 1. Storm drainage (PPCR) - 33,000 residents serviced by new and rehabilitated storm drainage. Flood events of facility reduced (based on 50 year flood frequency).	Number	2011	0	2021	33000	Local authorities' statistical data	42,527	Sangkat Prek Preah Sdech, Rattanak and Anlong Veal	Ongoing. Work has been 100% of completion and finished of defect liability period. Benefit from this subproject is under assessment. It is estimated that the project has achieved or overachieved. City areas used to be flooded before the construction of this drainage network is now no longer flooded.
f.	Bavet: 4. Storm Drainage (PPCR)- 29,000 residents serviced by storm drainage; flood events of facility reduced based on 50-year flood frequency.	Number	2011	0	2021	29000	Quarterly and annual progress reports of IAs	32,559	Sangkat Bavet, Baty and Chrak Mates.	Ongoing. Work has been 100% of completion and is under defect liability period. Benefit from this subproject is under assessment. It is estimated that the project has achieved or overachieved. City areas used to be flooded before the construction of this drainage network is now no longer flooded.
g.	Neak Loeung: 7. Flood Protection (PPCR) - 4.29 km flood protection dike	Value	2011	0	2023	4.29	Quarterly and annual progress reports of IAs		Preak khsay Khor and Neak Loeung Communes	Ongoing. ADB has no objection to allow the contractor to proceed civil works from 5 April 2021 onwards



	constructed; 363 ha of residential and commercial areas protected from annual flooding (based on 50 year flood frequency), benefiting 24,700 residents.									based on the IRC's handover letter on 15 March 2021. As of 30 September 2021, civil work progress is 15%
h.	Poipet: 8. Storm Drainage (PPCR)- 65,000 residents serviced by storm drainage. Flood events of facility reduced (based on 50 year flood frequency).	Number	2011	0	2021	65000	Quarterly and annual progress reports of IAs	80,292	Sangkat Poipet, Phsakandal and Nimith.	Ongoing. Work has been 100% of completion and is under defect liability period. Benefit from this subproject is under assessment. It is estimated that the project has achieved or overachieved. City areas used to be flooded before the construction of this drainage network is now no longer flooded.
i.	Poipet: 10. MRF - 30 cubic meters of recyclables from dry sources segregated, benefiting 58,600.	Value	2011	0	2021	30	Quarterly and annual progress reports of IAs			Ongoing. Transferring ownership of MRF to Municipality and/or then to private operator is expected by 31 December 2021.
j.	Bavet 5: Urban	Value	2011	0	2021	6.31	Quarterly and			Ongoing.



	roads - 6.31 km of main urban road upgraded with drainage structures, benefiting 37,100 residents.						annual progress reports of IAs			Construction has been completed and finished of defect liability period. No assessment yet. The upgraded road serves both economic benefits for local people and significantly reduces traffic jams.
Output 3: Institutional capacities strengthened										
a.	By 2021: 1,000 people trained in project management and implementation, and social and environment safeguards; gender targets achieved: Staff quota of 30% female in PMU and PIU, increased role in decision making.	Number	2013	0	2021	1000	EA and IA records of capacity building and training events (disaggregated by sex); Numbers of staff (by gender) before and after project implementation	7,456		Ongoing. Various training courses have been conducted, of which 471 PMU and PIUs staffs trained and 89 (19%) are women. Training courses on social and environmental safeguard and sanitation and hygiene promotion for three towns were conducted of which 1,062 participants trained and 650 are women. Training courses on concrete works and painting skills, solid waste recycling and existing business in Battambang town, Bavet and Poipet were



									conducted of which 516 participants trained and 399 are women. Road safety and HIV awareness campaigns were conducted in Battambang, Bavet and Poipet of which 6,102 participants attended and 5,407 (89%) are women. Out of a total 10 PMU staff, 3 staff (30%) are women. Out of a total 35 PIUs staff, 11 staffs (31%) are women. The number of women has increased from 2 to 3 female staffs for PMU and from 8 to 11 female staff for PIUs.
b.	MOA signed between IAs and District/Corridor town authorities on subproject O&M and climate resilience measures.	Y/N	2013	N	2021	Y	Community-level capacity building for increased gender awareness and participation of women in local decision making. EA and IA records		Ongoing. Subprojects are under defect periods or construction. For MRFs, hand-over contracts/MOUs of MRFs for O & M to Battambang municipality, Poipet municipality and Svay Rieng provincial administration/Bavet municipality are expected to be signed



										by 31 December 2021.
c.	Women hold 30% of overall staff positions and 30% of the management positions in the PMU and PIU	Percent	2013	0	2021	30	EA/IAs	31%	PMU: 3F/10Staff PIUs: 11F/35Staff	Achieved. Out of a total 10 PMU staff, 3 staff (30%) are women. Out of a total 35 PIUs staff, 11 staffs (31%) are women. The number of women has increased from 2 to 3 female staffs for PMU and from 8 to 11 female staff for PIUs.



APPENDIX H

BASELINE VALUES, PERFORMANCE TARGETS FOR INDICATORS, AND PROJECTED ACHIEVEMENTS

Output 1: SLEDPs adopted & implemented

Indicator 1.1: Baseline: The SLEDPs for Battambang, Bavet, Neak Loeung, and Poipet are currently available. These were all prepared in 2011.

Target: SLEDPs with sex-specific and climate-resilience measures incorporated, adopted, & disclosed; updated as required.

Projected Achievement: SLEDPs with sex-specific and climate-resilience measures incorporated, adopted, & disclosed by 2014; and updated by 2020.

Indicator 1.2: Baseline: As of 2014, no gender awareness and sensitization training has been conducted for executing and implementing agency staff.

Target: Gender awareness and sensitization training conducted for 30 executing and implementing agency staff.

Projected Achievement: 98 participants including 21 women (21%) from PMUs, PIUs, provincial department of women's affairs and contractors received gender sensitization including GAP orientation by GAP 3rd quarter 2020.

Output 2: Priority urban infrastructure investment implemented

Battambang

Indicator 2.1: Baseline: Battambang has an existing wastewater treatment plant (WWTP) in Chamkar Samraong serving the west part of the town. The WWTP has a capacity of 2,800 cu.m./day, built in 1994. Since 2014, the system is not functioning due to broken pump facilities and blocked conduits.

Target: 52,000 residents serviced by new and rehabilitated wastewater treatment plants (capacity 2,800 cu m/day) by 2020. Flood events of facility reduced (based on 50-year flood frequency).

Projected Achievement:

- 33,350 residents serviced by new wastewater treatment plant by 2020.
- The capacity of the new WWTP is 7,470 cu.m./day (Stage 1, design year is 2030).
- The new WWTP (completion of infrastructure in June 2020) will be servicing the following in the east part of the town by 2020:

Particular	Sangkat		Total
	Prek Preah Sdech	Rattanak	
Residents/Population	15,900	17,450	33,350
Commercial/Tourism Facilities	15	57	72
Public Facilities	2	4	6
Wastewater Generation (cu.m./day)	2,376	3,110	5,486

Source: PISCD, Battambang Wastewater Treatment Subproject Technical Assessment and Preliminary Design Report, July 2015.

- The rehabilitated WWTP (capacity 2,800 cu.m./day) will be servicing



18,650 residents, in the west part of the town, currently connected to the existing sewerage system.

- Flood events of facility reduced (based on 50-year flood frequency).

Storm Drainage Subproject Achievement:

- The new storm drainage subproject was completed and checked by the Employer on December 31, 2019. It is under DLP. The residents serviced by this storm drainage by 2020:

Sangkat	Population	Female	Family
Prek Preah Sdech	13,058	6,202	2,727
Rattanak	11,175	5,662	2,740
Anlong Veal	18,294	9,436	5,126
Total	42,527	21,300	10,593

Source: Village and Commune chief interview and Existing Business Improvement Training Report, July 2019.

Indicator 2.2: Baseline: The extent of flooding in the subproject area in Battambang Municipality is as follows:
Flood Control

Sangkat	Total Area (ha)	Affected by Flood During Wet Season		
		% of Total Area	Area (ha)	Population
1. Svay Por	199	25	50	1,516
2. Preah Preah Sdach	294	50	147	7,444
3. Rottanak	505	40	202	8,072
Total			399	17,032

Source: Consolidated Sangkat Report on Flooding in Battambang. 2013

Validated with Chief of Commune Council of each Sangkat on 24 February 2016.

The projected year 2018 total population within the flood-prone areas in the three Sangkats is 18,800.

Target: Flood events of city center, near river, reduced (based on 50-year flood frequency), benefiting 15,120 persons by 2018.

Projected Achievement: Flood events of city center, near river, reduced (based on 50-year flood frequency), benefiting ____* persons by 2018.

The implementation of this Flood Control Subproject has been deferred.

* The reduction of flood events due to the subproject, and the number of persons benefited will be updated/determined during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

Indicator 2.3: Baseline: The baseline value for the indicator is “nil” since subproject is construction of new MRF.
Material Recovery Facility

CINTRI is contracted, since 2010, to provide waste collection and disposal services in the town. A total of 7,249 households are served in 8 out of 11 sangkats. The present tonnage of solid waste that is collected daily is estimated to be 80-90 tons.

Source: Mr. To Thanarith, Operations Manager, CINTRI, Battambang, 24 February 2016.



Updated

CINTRI is contracted, since 2010, to provide waste collection and disposal services in the town. A total of 7,562 households are served in 8 out of 11 sangkats. The present tonnage of solid waste that is collected daily is estimated to be 100-120 tons.

Source: Mr. Nou Chamroeun, Urban Development of Plan PIU Battambang and Battambang Municipality Officer, 08 December 2020.

Target: 30 cu m of recyclables per day segregated benefiting 128,000 residents by 2018.

It is noted that the target of 30 cu m of recyclables per day in the DMF is inconsistent with the value in the Feasibility Study of 60 cu m of recyclable per day.

Projected Achievement: 60 m³ or eight (8) tons of dry, source segregated and non-biodegradable waste processed per day.

Bavet

Indicator 2.4: **Baseline:** Bavet has no existing WWTP, hence the baseline value for the Wastewater Treatment indicator is “nil”.

Target: 29,000 residents serviced by wastewater treatment plant (capacity 255 cu m/day) by 2019. Flood events of facility reduced (based on 50-year flood frequency).

Projected Achievement: 22,990 residents serviced by wastewater treatment plant (capacity 3,950 cu.m./day) by 2019. Flood events of facility reduced (based on 50-year flood frequency).

The new WWTP (completion of infrastructure in December 2018) will be servicing the following in Sangkat Bavet by 2019:

- 22,990 residents/population
- 27 commercial facilities, and
- 10 public buildings

The capacity of the new WWTP is 3,950 cu.m./day (Stage 1, design year is 2025).

Source: PISCD, Bavet Wastewater Treatment Subproject Technical Assessment and Preliminary Design Report, July 2015.

Storm Drainage Subproject Achievement:

- The new storm drainage subproject have been completed and handed over to the Employer on Q4, 2020. The residents serviced by new and rehabilitated wastewater treatment (storm drainage) by 2020:

Sangkat	Village	Population	Female	Family
Bavet	Chrakleav	1,756	833	923
	Bavet Leu	2,534	1,265	1,269
	Bavet Kandal	3,648	1,729	1,919
	Taboeb	3,593	1,716	1,877
	Tapov	2,303	1,067	1,236
Baty		6,029	3,118	-
Chrak Mates		12,696	6,643	-
Total		32,559	16,371	

Source: Village chief interview and Existing Business Improvement Training Report, March 2020.



Indicator 2.5: **Baseline:** The subproject will benefit not only the residents of Bavet but also the traffic between Cambodia and Viet Nam.

Urban Road

The projected population of Bavet by 2019 (year of completion of construction) is 40,600.

Source: Subproject Feasibility Study, Bavet Urban Road, ADB TA 7644-REG, May 2012.

Number of persons/year entering Cambodia from Vietnam (2010 to 2015)

2010	2011	2012	2013	2014	2015
547,565	621,010	673,830	680,723	738,441	751,811

Number of persons/year exiting Cambodia to Vietnam (2010 to 2015)

2010	2011	2012	2013	2014	2015
559,074	644,208	725,104	733,451	749,568	775,432

Source: Immigration Office at Bavet Border Check Point. Collected by Mr. Keo Sarong, Social & Environment Officer, Bavet PIU.

Target: 6, 14 km of main urban road upgraded with drainage structures, benefiting 37,100 residents by 2019.

Note: 37,100 is the population of Bavet in 2010.

Projected Achievement: 6, 14 km of main urban road upgraded with drainage structures, benefiting **53,590** residents by 2020.

Indicator 2.6: **Baseline:** The baseline value for the indicator is “nil” since the subproject is the construction of the new MRF.

Material

Recovery
Facility

Hybrid Garbage Co. Ltd. (HGCL) is contracted, since 18 September 2015, to provide waste collection and disposal services in the town. A total of 34,884 residents are served in 4 out of 5 sangkats. The present tonnage of solid waste that is collected daily is estimated to be 20-30 tons. The company collects waste from casinos, hotels, guesthouses, markets, households, restaurants, commercial establishments, and institutions in the urban sector of Bavet on daily basis (Monday through Sunday).

Source: Mr. Yen Chham, Administration Manager, Hybrid Garbage Co. Ltd, Bavet, 15 February 2016.

Updated

Hybrid Garbage Co. Ltd. (HGCL) is contracted, since 18 September 2015, to provide waste collection and disposal services in the town.

Target: 30 cu m of recyclables per day segregated, benefiting 24,000 residents by 2018.

Projected Achievement: 30 m³ or four (4) tons of dry, source segregated, and non-biodegradable waste processed per day benefiting ____* residents by 2018.

Source: Subproject Feasibility Study, Bavet Material Recovery Facility, ADB TA 7644-REG.

* The original target value will be validated/updated during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

Neak Loeung



Indicator 2.7: **Flood Protection** Baseline: The current population within the subproject area is 9,338 residents, as follows:

No. of Households	No. of Families	Population	Within the Flood Protection Area			
			Percentage	No. of Households	No. of Families	Population
Neak Loeung Commune						
1,538	1,781	8,864	60%	923	1,069	5,318
Prek Khsay Khor Commune						
2,282	2,351	11,485	35%	799	823	4,020
Total						
3,820	4,132	20,349		1,722	1,891	9,338

Source: Mr. Phum Samphorn, Deputy Governor, Peam Ror District, 16 February 2016.

Target: 5.4 km flood protection dike constructed; 363 ha of residential and commercial areas protected from annual flooding (based on 50-year flood frequency), benefiting 24,700 residents by 2019.

Projected Achievement: 3.9 km flood protection dike constructed by 2019; benefiting _____* residents and protecting 355 ha from annual flooding (based on 50-year flood frequency) for development into residential and commercial areas.

The implementation of this Flood Protection Subproject has been deferred.

* The length of the flood protection dike, and the number of residents and the hectareage of the area that will be protected will be updated/determined during the detailed engineering design to be undertaken by the DED Consultant.

Poipet

Indicator 2.8: **Wastewater Treatment** Baseline: Poipet has no existing WWTP, hence the baseline value for the indicator is “nil”.

Target: 65,000 residents serviced by wastewater treatment plant (capacity 16,400 cu m/day) by 2019. Flood events of facility reduced (based on 50-year flood frequency).

Projected Achievement: 45,790 residents serviced by wastewater treatment plant (capacity 7,660 cu m/day) by 2019. Flood events of facility reduced (based on 50-year flood frequency).

The new WWTP (completion of infrastructure in December 2018) will be servicing the following in Sangkat Poipet by 2019:

- 45,790 residents/population, and
- 29 commercial facilities

The capacity of the new WWTP is 7,660 cu m/day (Stage 1, design year is 2020).

Source: PISCD, Poipet Wastewater Treatment Subproject Technical Assessment and Preliminary Design Report, July 2015.

Storm Drainage Subproject Achievement:

- The storm drainage subproject was completed and checked by the Employer on August 14, 2020. The residents serviced by new and rehabilitated wastewater treatment (storm drainage) by 2020:

Sangkat	Population	Female	Family
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Poipet	32,087	15,545	
Phsakandal	29,656	13,115	7,166
Nimet	18,549	9,395	4,389
Total	80,292	38,055	

Source: Commune chief interview and Existing Business Improvement Training Report, September 2020.

Indicator 2.9: **Solid Waste Management** Baseline: The baseline value for the indicator is “nil” since the sanitary landfill is a new facility.

Poipet Cleaner is contracted, since 2008, to provide waste collection and disposal services in the town. A total of 2,200 households are served in 2 out of 3 sangkats. The present tonnage of solid waste that is collected daily is estimated to be 50-65 tons. Of which, an average of about 28 tons/day are collected from hotels/casino and other business and institutional establishments, and an average of about 35 tons/day are collected from households.

Source: Ms. Sareoung Sophea, Poipet Cleaner, 25 February 2016.

Target: 20 tons/day of solid waste deposited in sanitary landfill, benefiting 58,600 residents by 2019

Projected Accomplishment: ____* tons/day of solid waste deposited in sanitary landfill, benefiting ____* residents by 2019

The implementation of this Solid Waste Management Subproject has been deferred.

* The original targets will be verified/updated during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

Indicator 2.10

Material Recovery Facility

Baseline: The baseline value for the indicator is “nil” since the subproject is the construction of the new MRF.

CINTRI is contracted, since 01 January 2019, to provide waste collection and disposal services in the town, both residents used the service and did not used the service. A total of 24,719 households are served in 3 sangkats. The present tonnage of solid waste that is collected daily is estimated to be 200-210 tons.

Source: Mr. Sok Penhnorne, Urban Development Plan of PIU Poipet and Poipet Municipality Officer, 17 December 2020.

Target: 30 cu m of recyclables per day segregated, benefiting 58,600 residents by 2018.

Projected Achievement: 60 m³ or eight (8) tons of dry, source segregated and non-biodegradable waste processed per day benefiting ____* residents by 2018.

Source: Subproject Feasibility Study, Poipet Material Recovery Facility, ADB TA 7644-REG, June 2012.

* The original target value will be validated/updated during the preliminary design review detailed engineering design to be undertaken by the DED Consultant.

Output 3: Institutional capacity strengthened

Indicators 3.1, 3.2 & 3.3:

Baseline: The SECTDP is considered as the first major urban sector development assistance of the ADB in the GMS that integrates urban environment improvement and economic infrastructure with institutional capacity development for sustained economic growth. Hence the baseline



value for these indicators is “nil”.

Target: The performance targets of these indicators are as specified in the DMF.

Outcome: Urban infrastructure improved and climate resilience enhanced in Battambang, Bavet, Neak Loeung, and Poipet

Indicator 1: Baseline: The “before-project” number of inhabitants/individuals that have access to existing urban infrastructure that are to be rehabilitated/upgraded in the subprojects is the total of the baseline values of Output 2 Indicators 2.1 and 2.5, as follows:

Particular	Value
Residents presently connected to existing sewerage system and WWTP that will be rehabilitated in Battambang.	18,650
Present traffic volume (residents/individuals) of main urban road to be upgraded in Bavet.	_____ *
Total number of inhabitants/individuals that have access to existing urban infrastructure	_____ *

* To be determined/updated during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

Target: Improved access to urban infrastructure affects 558,220 inhabitants (cumulative figure) in four project towns.

Projected Accomplishment: Improved access to urban infrastructure affects _____ inhabitants (cumulative figure) in four project towns.

This is the total of the target number of residents/individuals benefiting from the urban infrastructure subprojects, i.e. total of targets for Indicators 2.1 to 2.10, as follows:

Town/ Indicator no.	Indicator	Updated Target
Battambang		
2.1	No. of residents serviced by new & rehabilitated WWTP	52,000
2.2	No. of persons benefiting from flood control	_____ *
2.3	No. of residents benefiting from MRF	_____ *
Bavet		
2.4	No. of residents serviced by WWTP	22,990
2.5	No. of residents/individuals benefiting from upgraded urban road	_____ *
2.6	No. of residents benefiting from MRF	_____ *
Neak Loeung		
2.7	No. of persons benefiting from flood protection	_____ *
Poipet		
2.8	No. of residents serviced by WWTP	45,790
2.9	No. of residents benefiting from sanitary landfill	_____ *
2.10	No. of residents benefiting from MRF	_____ *
Total inhabitants having improves access to urban infrastructure		_____ *



* To be determined/updated during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

Indicator 2: **Baseline:** Economic loss due to poor sanitation was \$32 per capita in year 2005.

Source: *Economic Impacts of Sanitation in Cambodia, Summary. Water and Sanitation Program – East Asia and the Pacific (WSP-EAP). World Bank. 2008*

Target: Annual economic impact of poor sanitation, accounting for a loss of \$33 in 2005 per capita per year, reduced by 40%.

Projected Accomplishment: Annual economic impact of poor sanitation, accounting for a loss of \$32 in 2005 per capita per year, reduced by 40%.

Indicator 3: **Baseline:** The “before-project” total hectareage of urban areas affected by perennial flooding in Battambang and Neak Loeung, is as follows:

Town	Urban areas presently affected by perennial flooding, hectares
Battambang.	_____*
Neak Loeung	335
Total	_____*

* To be determined/updated during the preliminary design review & detailed engineering design to be undertaken by DED Consultant.

Target: Urban areas affected by perennial flooding reduced by 30%.

This is the total of the targeted hectareage of urban areas (i) benefiting from the reduction of flood events, due to the flood control subproject in Battambang; and (ii) protected from annual flooding, due to the flood protection subproject in Neak Loeung. This is expressed as a percentage of the baseline value.

Town/ Indicator no.	“Before-project” (baseline) urban areas affected by perennial flooding Hectare	Urban areas protected from flooding due to flood control/protection subprojects	
		Hectare	% **
Battambang / 2.2	_____*	_____*	_____**
Neak Loeung / 2.7	335	335	100
Total	_____*	_____*	_____**

* To be determined/updated during the preliminary design review and detailed engineering design to be undertaken by the DED Consultant.

** Urban areas protected from flooding due to flood control/protection subprojects as a percentage of “before-project” (baseline) urban areas affected by perennial flooding.



APPENDIX I GRM-COMPLAINT RECORDING FORM

PIU Staff Responsible: (name and role)	
Date: (of this record)	
Date of Complaint:	
Date Resolution Required by (15 days from initial complaint):	
Complaint Made by: (Name & Contact Details)	
Method of Complaint: (direct to PMU, via Contractor, Via Commune People's Council)	
Details of Complaint: (issues, actions taken so far, when did it start – all details needed)	
PMU Actions: (Next steps for PMU to resolve the issue or to move complaint to next level)	
Follow Up Actions Needed and Date: (PMU to follow up on resolution if needed, e.g. check contractor actions)	



APPENDIX J

Gender Action Plan Progress

Update as of 30 September 2021

Project Title: Greater Mekong Sub-region Southern Economic Corridor Towns Development Project¹
Country: Cambodia
Project No. 43319-033
Type of Project (Loan/Grant/TA): Loan 2983
Approval and Timeline: Approval 10 December 2012
Gender Category: Effective Gender Mainstreaming (EGM)
Project Officer: Mr. Ouk Nida
Project Impact: The towns of Battambang, Bavet, Neak Loeung, and Poipet will become centers of economic activity in the Southern Economic Corridor
Project Outcome: Urban infrastructure improved and climate resilience enhanced in Battambang, Bavet, Neak Loeung, and Poipet

Document 1: Progress of Gender Action Plan Implementation

Document 2: Status of Compliance with DMF

1) Progress of Gender Action Plan Implementation

Gender Action Plan	Progress to Date	Issues and Challenges
Output 1 (GAP): Strategic Local Economic Development Plan (SLEDP) adopted and implemented		
1.1. GAP Component 1 - Institutional Strengthening for Gender and Development (funded under capacity development and training)		
Gender issues reflected and	- SLEDPs of the 4 towns are being updated. SELDPS recognizes that	

¹ The project was approved by the board on 10 December 2012, the effective date is on 08 April 2013 and estimated loan closing date on 30 June 2019. The total investment cost is estimated at \$ 54.78 million. Four corridor towns along the Southern Economic Corridor (SEC) were selected as project areas based on their economic potential, infrastructure constraints, and expressed commitment: Battambang, Bavet, Neak Leung, and Poipet.



mainstreamed in planning documents including Socio-Economic development plans and master plans Action1: On-track DMF indicator	urbanization offers the economic opportunities, but at the same time women faces a number of challenges to exploit benefit from urbanization. The key poverty and social issues are affordable access to basic urban infrastructure and services; inadequate coverage and insufficient capacity of urban service delivery of environmental sanitation services; and limited employment opportunities, particularly for poor households and female-headed households. The poor residents in urban are prone to incidence of flood related events with many of households consider drainage and wastewater disposal a serious problem. - Therefore, SLEDPs includes a number of gender measures to maximize the benefits for women in local urban development plan. Those include (i) job creation for women, (ii) provide skills training to poor women so they can get better position to caught up with economic development (iii) collect sex-disaggregated data, (iii) Develop guidelines for improving affordability to support access to water, wastewater and solid waste improvements for poor and vulnerable households, (iv) Implement awareness and advocacy campaigns on sanitation, hygiene and waste management etc.	
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PIS consultant’s gender specialists will collect sex-disaggregated data on EA/IAs staffing and technical designation as baseline and monitoring of gender targets for overall staff and management positions to refine the gender awareness training inputs Action 2: On-track	- Sex-disaggregated data on the PMU and PIUs staff has been annually collected. It is noticed that number of women’s participation in both PMU and PIUs have increased as PMU assigned more women to join the project implementation. Table 1: Sex-disaggregated data of project staffs at PMU and PIUs by year: <table><tr><th rowspan="2">Year</th><th colspan="2">PMU</th><th colspan="2">PIUs</th></tr><tr><th>Total</th><th>Female</th><th>Total</th><th>Female</th></tr><tr><td>2015</td><td>10</td><td>2</td><td>31</td><td>8</td></tr><tr><td>2016</td><td>10</td><td>2</td><td>31</td><td>8</td></tr><tr><td>2017</td><td>10</td><td>2</td><td>28</td><td>5</td></tr><tr><td>2018</td><td>10</td><td>2</td><td>30</td><td>7</td></tr><tr><td>2019</td><td>10</td><td>2</td><td>31</td><td>8</td></tr><tr><td>2020</td><td>10</td><td>3</td><td>35</td><td>11</td></tr><tr><td>2021</td><td>10</td><td>3</td><td>8</td><td>3</td></tr></table>	Year	PMU		PIUs		Total	Female	Total	Female	2015	10	2	31	8	2016	10	2	31	8	2017	10	2	28	5	2018	10	2	30	7	2019	10	2	31	8	2020	10	3	35	11	2021	10	3	8	3	
Year	PMU		PIUs																																											
	Total	Female	Total	Female																																										
2015	10	2	31	8																																										
2016	10	2	31	8																																										
2017	10	2	28	5																																										
2018	10	2	30	7																																										
2019	10	2	31	8																																										
2020	10	3	35	11																																										
2021	10	3	8	3																																										
Provide gender awareness and sensitization training for 30 EA/IA staff (each province); gender awareness training for managers and staff to increase sensitivity to different needs of women and men. Target 1: On-track DMF indicator	• Out of a total of 109² participants, 23 women (21%) from PMUs, PIUs, provincial department of women’s affairs and contractors received gender sensitization including GAP orientation. • The project conducted three gender sensitization trainings. The training contents included: (i) gender mainstreaming policy in Cambodia, (ii) ADB gender policy and requirement, (iii) gender concepts (iv) GAP orientation, (v) Developing or integrating gender into work plan, (vi) roles and responsibilities of project staffs in GAP implementation, (vii) collecting sex-disaggregated data and (viii) challenges and solution to GAP implementation.																																													
Output 2 (DMF & GAP output is the same): Priority urban infrastructure investments implemented																																														
GAP Component 2 - Empowerment for Women in Urban Community Development and Skills Training (funded under capacity development and																																														

² Q3-2021 Updated: The refresher training on Gender Awareness and GAP conducted combined with Environmental conducted on September 23, 2021. This orientation engaged 11 (2females) participants: 2 PMUs, 3 PIUs, 2 commune councilors, 1 Environmental Officer, 1 technical supervisor and 2 contractor's staff.



training)		
Market assessment survey undertaken indicating current demand and economic growth areas in towns. Action 3: Completed	- The market assessment study was conducted using desk review and consultation with local NOGs, authorizes, PDOWA and women beneficiaries in the project including small-scale business owner in the project area, waste picker and construction workers. The consultation has been done with 101 women. - Below are the findings and the recommendations from the study: (i) The majority of women consulted prefer skill on their existing business and work, so they can improve their current business and performance. (ii) To ensure inclusive growth, skill training should include the poor and vulnerable women (waste picker, construction workers and small-scale business operators) (iii) for small-scale home-based and street vendors, training should cover business plan, product/good packaging, sanitation, marketing skill. National Employment Agency and Caritas could be the best agencies for this training, (iv) For waste pickers, the skill should be on solid waste recycling skills. This skill can be provided by SCARO organization that have years of experience waste picker on dumpsite.	
Training for women to better position their entry in the growing employment demand areas arising from project interventions, targeting at least 150 women per town. Target 2: On-track	- 449 women including construction workers, waste pickers and small-scale home-based and street vendors in three towns (Battambang, Bavet and Poipet province) received skill trainings to increase their job performance and opportunities for the growing market. The types of skill selected for training is based on the consultation with women on their preference skills and has been customized according to different types of participants. - Female construction workers received the training on concrete and painting work. The female waste pickers received the training on	



	waste segregation, recycling and compost making. The small-scale home-based and street vendors received skill training on business plan, benefit and cost analysis, sanitation and marketing.	
A target of 40% women for employing existing informal waste pickers in the material recovery facilities (MRFs) funded under the project, including skills upgrade training. Target 3: Achieved	- All MRFs construction were completed and it is in the process to handover to municipality to manage the operation. - The handover agreements include the condition that “Operator will target at least 40% women for employing existing informal waste picker in the MRF”. - 30 (58%) women out of 52 waste pickers received training on Solid Waste Recycling Skills. The training has been helpful to women to be able to do solid waste recycling, make compost, and to guide them on price of recycle products and on how to seek for available merchandisers to sell recycle products to earn more income. - Q4-2020 Updated: MRFs transferred to provincial hall for further action.	
Construction phase employment, construction workers will be 30% female; contractor records to be sex disaggregated for monitoring purposes. Target 4: On-track DMF indicator	- As of September 31, 2021, out of a total 58,022 unskilled labor days, 17,844 (31%) days claimed by women under the construction work. - Type of activities performance by women included: (i) bending bar, (ii) cleaning the road, (iii) deliver brick and mixed cement and (iv) flag person, painting and etc. Female unskilled workers received training from the company on concrete work, painting work, bending, and installing rebar to enable their work in the construction. - Women unskilled laborers receive \$7/day. The company provide equal pay for equal work. The different scale of pay is depending level and type of work. - Sex-disaggregated labor monitoring sheet was developed and use by contractors and reported to PMU monthly. - There is no child labor employed in the construction.	
GAP component 3 - HIV awareness and prevention (funded by construction companies)		
Awareness training provided by	- Out of a total 790 participants, 339 (43%) women attended the HIV	



external HIV organizations and/or NGOs subcontracted by contractors during workforce mobilization for laborers and community surrounding construction locales Action 4: On-track	trainings. The participants consist of construction workers, and entertainment workers, waste pickers, and villagers. Audiences mostly remember about the HIV/AIDS prevention, particularly "the parent have to ask groom in advance six-months to get blood-tested before getting their children's married."	
GAP component 4 - sanitation, health and hygiene Program (funded under capacity development and training)		
Training 2 health and sanitation promoters (male and female) in each town through a training of trainers (TOT) program Target 5: Achieved	- Out of a total of 27 participants, 8 women (30%) from commune health and sanitation promoter, Provincial Department of Women's Affairs (PDWA), PMU & PIUs of the four towns attended a training of trainer on environmental sanitation and hygiene. With coordinated by trained PIUs and PDoWA, the Sanitation Promoters used provided IECs materials to conduct Environmental and Sanitation to target villagers, it engaged total 948 (622 females) at target villagers.	
Establish and train 2 MoWA staff as facilitators for IEC completion in each town. Target 6: Achieved	- PDoWA assigned 11 trainers (including 6 women) of the 27 trainers in ToT program to be Sangkat council sanitation and hygiene promoter in the targeted towns. Those health promoters have organized health and sanitation outreaches by using the existing IEC materials to reach a total of 948 participants including 622 women (66%). 1). Bavet: conduct Environmental Sanitation and Hygiene Promotion to approximately 385 villagers (249 Females). 2). Battambang: conduct Environmental Sanitation and Hygiene Promotion to approximately 159 villagers (112 Females). 3). Poipet: conduct Environmental Sanitation and Hygiene Promotion to approximately 404 villagers (261 Females)	
GAP component 5 - road safety campaign (funded under capacity development and training)		



Target girls as well as boys in school awareness campaigns Action 5: Completed	- Out of a total 5,508 participants, 5,112 women (93%) attended awareness raising on road safety program. The program was conducted in 13 classrooms both at primary and high schools. The road construction was along economic zone where there are many garment factories. Thus, the program also targeted garment factories workers, whose majority are women.																															
Output 3 (DMF & GAP output is the same): Institutional capacity strengthened																																
GAP component 6 - institutional strengthening for gender and development (cost included in project output 1)																																
Ensure that 30% of the overall staff positions and 30% of the management positions in the Project Management Units and Project Support Units to be female. Target 7: Achieved DMF indicator	- Out of a total 10 PMU staff, 3 staff (30%) are women. - Out of a total 35 PIUs staff, 11 staffs (31%) are women. - The number of women has increased from 2 to 3 female staffs for PMU and from 8 to 11 female staff for PIUs. Table 2: Number of project staffs at PIUs <table><tr><th>PIUs</th><th>Male</th><th>Female</th><th>Total staff</th><th>% female</th></tr><tr><td>Battambang</td><td>6</td><td>3</td><td>9</td><td>33%</td></tr><tr><td>Piopat</td><td>7</td><td>3</td><td>10</td><td>30%</td></tr><tr><td>NeakLoeung</td><td>5</td><td>3</td><td>8</td><td>37%</td></tr><tr><td>Bavet</td><td>6</td><td>2</td><td>8</td><td>25%</td></tr><tr><td>Total</td><td>24</td><td>11</td><td>35</td><td>31%</td></tr></table>	PIUs	Male	Female	Total staff	% female	Battambang	6	3	9	33%	Piopat	7	3	10	30%	NeakLoeung	5	3	8	37%	Bavet	6	2	8	25%	Total	24	11	35	31%	
PIUs	Male	Female	Total staff	% female																												
Battambang	6	3	9	33%																												
Piopat	7	3	10	30%																												
NeakLoeung	5	3	8	37%																												
Bavet	6	2	8	25%																												
Total	24	11	35	31%																												

Summary Notes:

There are 5 activities and 7 targets to be fulfilled.

Actions:

- Completed: action 3 and action 5 (2 actions = 40%),
- On-track: action 1, action 2 and action 4 (3 actions = 60%),

Targets:



- **Achieved target: targets: 3, 5,6 &7 (4 targets = 57%),**
- **On-track: (3 targets = 43%),**



APPENDIX K

STATUS OF COMPLIANCE WITH LOAN COVENANTS (As of 30 September 2021)

No.	Covenant	Reference in LA	Status of Compliance
1.	Implementation Arrangements The Borrower shall ensure that the Project is implemented in accordance with the detailed arrangements set forth in the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower and ADB. In the event of any discrepancy between the PAM and this Loan Agreement, the provisions of this Loan Agreement shall prevail.	Schedule 5, Para. 1	Complied
2.	Environment The Borrower shall ensure, and cause MPWT to ensure, that the preparation, design, construction, implementation, operation and decommissioning of the Project comply with: (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEEs, the EMPs and any corrective or preventative actions set forth in a Safeguards Monitoring Report. The Borrower shall ensure, and cause MPWT to ensure, that the foregoing is applied and implemented for all Parts of the Project, regardless of the financing source.	Schedule 5, Para. 2	Ongoing
3.	The Borrower shall ensure that Bavet and Poipet municipalities pass regulation requiring that no untreated waste water is discharged by industrial companies within 36 months of the Effective Date.	Schedule 5, Para. 3	Not yet due
4.	Land Acquisition and Involuntary Resettlement The Borrower shall ensure, and cause each Project province to ensure, that all land and all rights-of-way required for the Project are made available to the Works contractor following the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with: (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the Involuntary Resettlement Safeguards; and (c) all measures and requirements outlined in the RPs, and any corrective or preventative actions outlined in the Safeguards Monitoring Report. Without limiting the generality of the foregoing, the Borrower shall ensure, and cause each Project province to ensure, that prior to the commencement of Works a clear land title (which is free of any kind of encumbrance) shall be provided for the implementation of Parts 3, 6 and 10 of the Project.	Schedule 5, Para. 4	Complied
5.	Without limiting the application of the Involuntary Resettlement Safeguards or the RPs, the Borrower shall cause MPWT to ensure that no physical or economic displacement takes place in connection with the Project until: (a) compensation and other entitlements have been provided to affected people in accordance with the RPs; and	Schedule 5, Para. 5	Complied

Quarterly Report, 3rd Quarter 2021: Appendices



No.	Covenant	Reference in LA	Status of Compliance
	through the Project monitoring process and facilitate the carrying out of any verification activities; and report any actual or potential breach of compliance with the measures and requirements set forth in the EMPs and the RPs promptly after becoming aware of the breach.		engaged. The EMO reports were submitted to ADB on Quarterly basis
10.	Prohibited List of Investments The Borrower shall ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Schedule 5, Para. 10	Complied
11.	Labor Standards and Health The Borrower shall ensure, and cause MPWT to ensure that, all Works contractors: (a) comply with all applicable labor laws of the Borrower; (b) use their best efforts to employ women and local people, including disadvantaged people, living in the vicinity of the Project; (c) disseminate information at worksites on health safety for those employed during construction; (d) provide equal pay to men and women for work of equal type; (e) provide safe working conditions and separate culturally appropriate facilities for male and female workers; and (f) abstain from child labor.	Schedule 5, Para. 11	Ongoing
12.	Gender and Development The Borrower shall ensure, and cause MPWT to ensure, that: (a) the gender action plan developed for the Project is implemented in accordance with its terms; (b) the bidding documents include relevant provisions for contractors to comply with the measures set forth in this plan; (c) adequate resources are allocated for the implementation of this plan; and (d) key gender outcome and output targets (notably: (i) gender awareness and sensitisation training to be carried out for 30 staff from MPWT and the implementing agencies; (ii) 30 percent of the construction workers hired by the Works contractors should be female; (iii) 30 percent of the total staff in the project management unit and the project implementation units of the Project shall be female; and (iv) within 24 months of the Effective Date, 20 percent of the total management positions in the project management unit and the project implementation units of the Project shall be occupied by female) are monitored regularly and achieved.	Schedule 5, Para. 12	Ongoing
13.	The Borrower shall ensure, and cause MPWT to ensure that, the stakeholder communication strategy developed for the Project is implemented in a timely manner.	Schedule 5, Para. 13	Ongoing
14.	Sector Development The Borrower shall cause MPWT to: (a) adopt a business plan for achieving full cost recovery (to cover operation and maintenance expenditures) of the facilities developed under Parts 1, 4 and 8 of the Project prior to their physical completion; and (b) commit to making up shortfall through budget allocations to cover operation and maintenance expenditures.	Schedule 5, Para. 14	Not yet due
15.	Governance and Anticorruption The Borrower shall: (a) comply with ADB's Anticorruption	Schedule 5,	



No.	Covenant	Reference in LA	Status of Compliance
	Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.	Para. 15	Complied
16.	The Borrower shall ensure, and cause MPWT to ensure, that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project.	Schedule 5, Para. 16	Complied
17.	The Borrower shall cause MPWT to prepare and effectively implement a good governance framework, in a form and substance acceptable to ADB during Project implementation.	Schedule 5, Para. 17	Complied
18.	The Borrower shall: (i) maintain separate accounts and records for the Project; (ii) prepare annual financial statements for the Project in accordance with accounting principles acceptable to ADB; (iii) have such financial statements audited annually by independent auditors whose qualifications, experience and terms of reference are acceptable to ADB, in accordance with international standards for auditing or the national equivalent acceptable to ADB; (iv) as part of each such audit, have the auditors prepare a report (which includes the auditors' opinion on the use of the Loan proceeds and compliance with the financial covenants of this Loan Agreement as well as on the use of the procedures for imprest fund and statement of expenditures) and a management letter (which sets out the deficiencies in the internal control of the Project that were identified in the course of the audit, if any); and (v) furnish to ADB, no later than 6 months after the end of each related fiscal year, copies of such audited financial statements, audit report and management letter, all in the English language, and such other information concerning these documents and the audit thereof as ADB shall from time to time reasonably request.	Article IV, Section 4.02 (a)	Complied
19.	ADB shall disclose the annual audited financial statements for the Project and the opinion of the auditors on the financial statements within 30 days of the date of their receipt by posting them on ADB's website.	Article IV, Section 4.02 (b)	Complied
20.	The Borrower shall enable ADB, upon ADB's request, to discuss the financial statements for the Project and the Borrower's financial affairs where they relate to the Project with the auditors appointed pursuant to subsection (a)(iii) hereinabove, and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB. This is provided that such discussions shall be conducted only in the presence of an authorized officer of the Borrower unless the Borrower shall otherwise agree.	Article IV, Section 4.02 (c)	Complied
21.	The Borrower shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Article IV, Section 4.03	Complied



No.	Covenant	Reference in LA	Status of Compliance
22.	General The procurement of Goods, Works and Consulting Services shall be subject to and governed by the procurement Guidelines, and the consulting Guidelines, respectively.	Schedule 4, Para. 1	Complied
23.	All terms, used in this schedule and not otherwise defined in this loan agreement have the meanings provided in the Procurement Guidelines and/or the Consulting Guidelines, as applicable.	Schedule 4, Para. 2	Complied
24.	Goods and Works Except as ADB may otherwise agree, Goods and works shall only be procured on the basis of the methods of procurement set forth below: (a) International Competitive Bidding; and (b) National Competitive Bidding	Schedule 4, Para. 3	Complied
25.	The methods of procurement are subject to, among other things, the detailed arrangements and threshold values set forth in the Procurement Plan. The Borrower may only modify the methods of procurement or threshold values with the prior agreement of ADB, and modifications must be set out in updates to the Procurement Plan.	Schedule 4, Para. 4	Complied
26.	Domestic Preference The Borrower may grant a margin of preference in the evaluation of bids under international competitive bidding in accordance with paragraphs 2.55(a) and 2.56 of the Procurement Guidelines for domestically manufactured Goods, and paragraphs 2.55(b) and 2.56 of the Procurement Guidelines for domestic Works.	Schedule 4, Para. 5	Complied
27.	National Competitive Bidding The Borrower and ADB shall ensure that, prior to the commencement of any procurement activities under national competitive bidding, the Borrower's national competitive bidding procedures are consistent with the Procurement Guidelines. Any modifications or clarifications to such procedures agreed between the Borrower and ADB shall be set out in the Procurement Plan. Any subsequent change to the agreed modifications and clarifications shall become effective only after approval of such change by the Borrower and ADB.	Schedule 4, Para. 6	Complied
28.	Conditions for Award of Contract The Borrower shall not award any Works contract which involves environmental impacts until MPWT has: (a) Obtained the final approval of the IEE from the appropriate authority of the Borrower; and (b) Incorporated the relevant provisions from the EMP into the Works contract.	Schedule 4, Para. 7	Complied
29.	The Borrower shall not award any Works contract which involves involuntary resettlement impacts, until the Borrower has prepared and submitted to ADB the final RP based on the detailed design, and obtained ADB's clearance of such RP.	Schedule 4, Para. 8	Complied
30.	Consulting Services	Schedule 4,	



No.	Covenant	Reference in LA	Status of Compliance
	Except as ADB may otherwise agree, the Borrower shall apply quality- and cost-based selection for selecting and engaging Consulting Services.	Para. 9	Complied
31.	The Borrower shall apply the following method for selecting and engaging the specified Consulting Services, in accordance with among other things the procedures set forth in the Procurement Plan: Consultant Qualification Selection for (a) detailed design and construction supervision; and (b) independent monitoring.	Schedule 4, Para. 10	Complied
32.	The Borrower shall recruit the individual consultants for such services as agreed with ADB in accordance with procedures acceptable to ADB for recruiting individual consultant.	Schedule 4, Para. 11	Complied
33.	Industrial or Intellectual Property Rights (a) The Borrower shall ensure that all Goods and Works procured (including without limitation all computer hardware, software and systems, whether separately procured or incorporated with other goods and services procured) do not violate or infringe any industrial property or intellectual property right or claim of any third party. (b) The Borrower shall ensure that all contracts for the procurement of Goods and Works contain appropriate representations, warranties and, if appropriate, indemnities from the contractor or supplier with respect to the matters referred to in subparagraph (a) of this paragraph.	Schedule 4, Para. 12	Complied
34.	The Borrower shall ensure that all ADB-financed contracts with consultants contain appropriate representation, warranties and, if appropriate, indemnities from the consultants to ensure that Consulting Services provided do not violate or infringe any industrial property or intellectual property right or claim of any third party.	Schedule 4, Para. 13	Complied
35.	ADB's Review of Procurement Decisions Contracts procured under international competitive bidding procedures and contracts for Consulting Services shall be subject to prior review by ADB, unless otherwise agreed between the Borrower and ADB and set forth in the Procurement Plan.	Schedule 4, Para. 14	Complied



APPENDIX L

RISK ASSESSMENT AND RISK MANAGEMENT PLAN (RARMP)

No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
Element 1: Procurement							
1.a	Irregularities relating to leaking prior or post procurement information before the contract award, collusion during the bidding process, and bid evaluation.	High	EA/IAs to establish PRC under the project in accordance with SOP/PM which are in line with ADB guidelines. EA/IAs shall ensure that the Declarations of Fraud and Ethical Conduct (DFEC) for PRC members and bidders (contractors, suppliers and consultants) are signed for each transaction. A copy of the declarations of winning bidders shall be part of the awarded contracts.	EA/IAs	All procurement transactions. EA/IA to monitor, ADB to verify during review missions, prior reviews and post reviews	PRC established on 22 November 2014. DFEC signed for each transaction, and copies of DFEC of winning bidders made part of awarded contracts.	PRC minutes of meetings. DFEC in awarded contracts.
1.b	Insufficient compliance with procedures	High	EA/ IAs are to adhere strictly to the procedures and guidelines set forth in the Loan Agreement, ADB's Procurement Guidelines, and SOP/PM that also cover ICB, NCB and shopping.	EA/IAs MEF monitors compliance with LA, ADB Procurement Guidelines and SOP/PM	All procurement transactions. EA/IA to monitor, ADB to verify during review missions, prior reviews and post reviews	Sufficient adherence/ compliance to procurement procedures and guidelines by EA/IAs, as monitored by MEF.	Bid Evaluation Committee (BEC) / Consultant Evaluation Committee (CEC) Reports & Recommendation. PRC minutes of meetings.
1.c	Weak procurement capacity.	High	EA/ IAs will receive continued hands-on training and technical assistance from consultants recruited under the project. SOP/PM will be used under the project.	ADB	Throughout Project duration	Training was conducted by ADB in Dec. 2016. Inquiries on procurement can be directly made through ADB's procurement clinic.	PMU/ADB records.



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No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
			Recruitment of a well-experienced procurement officer and website officer in PMU to avoid procurement and eventual implementation delays	EA/IAs	Throughout Project duration	Procurement Specialist contracted in Aug 2014 by PISCD and in June 2016 by PMU. Website officer is a PMU member.	Copies of contracts with PMU.
			Closely monitor and review procurement conduct, and where necessary, take measures to improve procedures based on lessons learnt from each successive procurement activity.	EA, MEF and ADB	Throughout Project duration	EA/MEF monitoring and reviewing the conduct of procurements.	BEC and CEC reports. PRC minutes of meetings.
			EA/IAs will recruit additional national and/or national procurement staff if required.	EA/IAs		No additional procurement staff required.	-
1.d	Delayed execution of schedules in the Procurement Plans and failure to track to procurement transactions.	High	Preparation of realistic annual Procurement Plan, tied to annual work plan and budget. EA/IAs will maintain Procurement Monitoring and Tracking Forms as defined in the SOP/PM, and take actions to address delays through additional consultant inputs, if necessary.	EA/IAs to prepare updated procurement plans and procurement tracking form.	Update procurement plan and monitor procurement tracking form during review missions as required	Procurement plan updated in 23 April 2018. Procurement Monitoring & Tracking Forms maintained.	Updated Procurement Plan. Filled out Procurement Monitoring & Tracking Forms.
1.e	Informal payments by contractors, suppliers and consultants	High	All contractors, suppliers and consultants – firms or individuals, national and international – bidding for contracts under the project shall sign the Declaration on Ethical Conduct and Fraud and Corruption in the SOP/ procurement manual.	EA/IAs and MEF	Throughout Project duration	Signed DFECs included in bids.	Signed DFECs.
Element 2: Financial Management							
2.a	Weak internal controls	High	EA/IAs to follow the financial management procedures specified in: (i) the Project Financing Agreement; (ii) the government's SOP and FMM.	EA/IAs; MEF to ensure compliance with SOP/ FMM, Loan	Throughout Project duration	Specified fin'l. management procedures followed since 31	Quarterly Report and PMU reports to MEF and ADB.



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No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
				Agreement and ADB's Anticorruption Policy		Dec 2015 and ongoing.	
2.b	Weak financial management capacity	High	EA/IAs to receive continued hands-on training from consultants recruited under the project. The SOP/FMM will be used under the project, as well as relevant provisions of the Loan Agreement and ADB's guidelines on procurement and consulting services. Project to closely monitor and review financial management conduct and make necessary improvements as required.	EA and IAs and ADB EA and IAs	Throughout Project duration, conducted as a part of capacity building activities in the project	Hands-on-training ongoing. CapDev training scheduled. Monitoring & review since Dec 2015 and ongoing	CapDev Plan and training modules. Supported by Financial Management Specialist
2.c	Minimize cash transactions	High	Project to make all progress payments to contractors, suppliers and consultants – firms, individuals, national and international – by check or transfer to bank accounts, and retain evidence for audit and donor supervision missions.	MEF, EA and IAs	Throughout Project duration	Payments by check or bank transfer complied and ongoing.	Project Financial Statements
2.d	Delayed or non-existent reconciliation of advances for operating costs and expenses	High	Project to reconcile advances for operating expenses to staff or field offices within one week of the end of each month. No further advances to be paid until previous advance reconciled and cleared against documentary evidence.	EA and IAs	Throughout Project duration Project director to monitor and ADB to verify during review missions.	Reconciliation of advances complied and ongoing.	Project Financial Statements
Element 3 : Disclosure							
3.a	Possible conflict of interest among Project staff	Extremely High	Project staff to disclose private and public affiliations or personal interest before becoming involved in any project-related transaction, such as contract award. EA to prepare a declaration statement for staff's signature.	EA/IAs to ensure all Project staff sign the disclosures	Throughout Project duration Project director to ensure all project staff signs the disclosures.	Internal rules of the project updated and provided for avoidance of conflict of interest. Written disclosure is retained on file.	Internal rules of project for project staffs (PMU and PIUs)



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No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
3.b	Inadequate transparency and disclosure	High	Project to agree information to be disclosed on the project and EA/IA websites biannually, with hard copies available for public inspection on request. At a minimum, the Project will disclose the information required by the Loan Agreement.	EA and ADB to agree the final list. Project director to arrange disclosure	Throughout Project duration.	Development of project website to be completed in February 2017. Information will then be uploaded to the website. Project information and grievance redress mechanism disclosed in target towns on 19, 21 and 22 June 2018 Bid documents was advertised by Phnom Penh Post newspaper and Project website	Project website. EMPs report and quarterly report Bid Evaluation Report (BER)
Element 4: Complaints and Remedies Mechanism							
5.a	Inadequate complaints and remedies mechanisms		Project to build well-defined complaints and remedies mechanism into project documents. Complaints procedures regarding procurement to follow process set out in Loan Agreement and SOP/PM. Following established publication of evaluation and awards, debriefing mechanism is also necessary not only to enhance transparency but also for the losing bidders to know their weak points.	EA/IAs EA and IAs in consultation with ADB	At effectiveness	To be complied with. PMU provides all bidders with copies of the evaluation and awards through email.	- Copies of emails from PMU
Element 5: Code of Ethical Conduct							
6.a	Poor enforcement of the Code of		Project to provide copies of the relevant laws and articles on Code of Conducts for civil	EA and IAs	Throughout Project duration	The Department of Human	Signed receipts available with the



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No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
	Conduct for civil servants		servants to all project staff, including contracted staff. Project will maintain signed declaration of receipt of these documents by all project staff, including contracted staff. Similarly, all members of the procurement committee undertaking the evaluation shall sign the Declaration on Ethical Conduct.			Resources provides copies of Code of Conducts for Civil Servants to Ministry personnel upon employment.	Department of Human Resources.
Element 6: Sanctions							
7.a	Inadequate sanctions for fraudulent and corrupt activity by Project staff, contractors, suppliers and consultants		The Project to identify and apply sanctions available under current law and regulations of Cambodia, ADB's Loan Regulations, the Loan Agreement, and ADB's Procurement Guidelines and Consulting Guidelines. Sanctions for individuals may include the transfer of duties, retraining, suspension, dismissal, re-grading, and prosecution under Cambodian Law. Sanctions for firms may include: termination of contract, debarment or blacklisting under ADB's Procurement Guidelines and Consulting Guidelines, or prosecution under Cambodian Law	EA and IAs, and in consultation with ADB	Effectiveness	Sanctions for firms included in termination of the contract	Bidding document
Element 7: Project Specific Elements							
7.a	Poor enforcement of contract terms and need to conduct contractors performance evaluation		EA to ensure that contract terms are strictly enforced and the loan consultant will be a party to ensuring quality control of contract outputs, include acceptance of completion of works and services.	EA and IAs	Throughout Project duration	Contract terms for previous DED Consultant enforced, with the assistance of PISCD.	Evaluation of DED Consultant's output.
7.b	Poor quality of design and works construction		EA and IAs to ensure that approved infrastructure's design standards and specification developed by the respective agencies are utilized for the design of	EA and IAs, and with ADB NOL	Throughout Project duration	DED to be carried out by PISCD and CS Consultants.	DED reports and bid documents.



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No.	Risk/Issue	Assessment without Mitigation	Action to Mitigated Risk	Responsibility	Target/Monitoring	Status as at (Dec 2018)	Supporting Evidence
			structures under the project. Project to recruit experienced detailed design consultant on a timely basis to assist the project.		Contract signed immediately after effectiveness	DED to be carried out by PISCD and CS Consultants.	V.O. no. 6 to PISCD contract, and CS contract.
7.c	Risk of low-quality construction and supervision		Project to recruit experienced site supervision consultants to assist EA/IAs.. Regular technical audit is to be undertaken with any adverse findings to be acted upon immediately. Project to evaluate contractors' performance with poor performing contractors declared ineligible to bid for at least one year.	EA and IAs, and with ADB NOL EA and IAs EA and IAs, and with ADB NOL	Prior to the award of first works contract. Throughout Project duration. Annually	Construction Supervision Consultant recruited To be complied during construction. To be complied during construction.	CS contract document. - -



APPENDIX M SUPPORT DOCUMENTS OF LAND ACQUISITION



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ក្រសួងសេដ្ឋកិច្ច និង ហិរញ្ញវត្ថុ

លេខ ៤៧៧ ខ.ជ.សហវ. ២០១៩

ថ្ងៃពុធ ១៩ កញ្ញា ឆ្នាំ ២០១៩ សំរឹត្តិស័ក ព.ស. ២៥៦២

រាជធានីភ្នំពេញ, ថ្ងៃទី ៣១ ខែ កញ្ញា ឆ្នាំ ២០១៩

សូមគោរពជូន

ឯកឧត្តមនាយករដ្ឋមន្ត្រី រដ្ឋមន្ត្រីក្រសួងសាធារណការ និងដឹកជញ្ជូន

កម្មវត្ថុ៖ ការប្រគល់ទីតាំងដីដែលគណៈកម្មការអន្តរក្រសួងបានធ្វើលទ្ធកម្មរួច សម្រាប់គម្រោងអភិវឌ្ឍន៍ក្រុងរបៀង
ខាងត្បូងដែលបានទទួលហិរញ្ញប្បទានសហប្រតិបត្តិការពីធនាគារអភិវឌ្ឍន៍អាស៊ី (ADB)។

យោង៖ លិខិតលេខ ១៨៧៩ សក/អក ចុះថ្ងៃទី ២៨ ខែ ឧសភា ឆ្នាំ ២០១៥ របស់ក្រសួងសាធារណការ និងដឹកជញ្ជូន
- លិខិតលេខ ២០៤២ សក ចុះថ្ងៃទី ១០ ខែ មិថុនា ឆ្នាំ ២០១៣ របស់ក្រសួងសាធារណការ និងដឹកជញ្ជូន។

សេចក្តីដូចមានចែងក្នុងកម្មវត្ថុ និងយោងខាងលើ ខ្ញុំសូមគោរពជម្រាបជូនឧត្តមនាយករដ្ឋមន្ត្រី មេត្តាជ្រាបដ៏
ខ្ពង់ខ្ពស់ថា៖ តាមសំណើរបស់ក្រសួងសាធារណការ និងដឹកជញ្ជូន គណៈកម្មការអន្តរក្រសួងដោះស្រាយផលប៉ះពាល់
សហការជាមួយក្រសួងសាធារណការ និងដឹកជញ្ជូន និងអនុគណៈកម្មការខេត្តស្វាយរៀង, ខេត្តបាត់ដំបង និងខេត្ត
បន្ទាយមានជ័យ បានចុះពិនិត្យ ពិគ្រោះយោបល់ និងធ្វើលទ្ធកម្មដីសម្រាប់សាងសង់អាងប្រព្រឹត្តិកម្ម និងស្ថានីយបូមប្រោះ
សម្អាតទឹកកខ្វក់ នៃគម្រោងខាងលើរួចរាល់ហើយ។

ហេតុដូច្នេះ គណៈកម្មការអន្តរក្រសួងដោះស្រាយផលប៉ះពាល់ សូមប្រគល់ទីតាំងដីដែលបានធ្វើលទ្ធកម្មរួច
ជូនក្រសួងសាធារណការ និងដឹកជញ្ជូន ដើម្បីផ្តល់លទ្ធភាពឱ្យក្រុមហ៊ុនសាងសង់ដំណើរការការងារវិស្វកម្មតាមផែនការ
និងបន្តគ្រប់គ្រងនិងប្រើប្រាស់ទីតាំងដីទាំងនេះស្របតាមច្បាប់ និងលិខិតបទដ្ឋានគតិយុត្តជាធរមាន ចាប់ពីថ្ងៃប្រគល់-
ទទួលឯកសារនេះតទៅ។

ទីតាំងដីដែលបានធ្វើលទ្ធកម្មរួច រួមមានដូចខាងក្រោម៖

ល.រ	ខេត្ត/ ក្រុង	បរិយាយ	ទំហំដី	ទីតាំងភូមិសាស្ត្រ	លិខិតផ្ទេរសិទ្ធិកាន់កាប់ប្រើប្រាស់ ដីធ្លី និងប័ណ្ណសម្គាល់សិទ្ធិកាន់ កាប់អចលនវត្ថុ
១	ខេត្តឧត្តរមានជ័យ	អាងប្រព្រឹត្តិកម្ម	១០១ ៥៦៩ ម ^២	- ឃុំនរ ស្រុកសង្កែ - ឃុំនរ ស្រុកសង្កែ - ឃុំនរ ស្រុកសង្កែ - ឃុំនរ ស្រុកសង្កែ	- ក្បាលដីលេខ÷Bx 0074 - ក្បាលដីលេខ÷Bx 0075 - ក្បាលដីលេខ÷Bx 0108 - ក្បាលដីលេខ÷Bx 0110 ចុះថ្ងៃទី ១២- ឧសភា-២០១៥

ទំព័រទី១នៃ២



២			១ ៧៤០ ម ^២	- ភូមិបេង, ឃុំអន្លង់វិល, ស្រុកសង្កែ	- ក្បាលដីលេខ÷០០៦ យអវ ចុះថ្ងៃទី ០៤-មករា-២០១៧
៣	ខេត្តបាត់ដំបង	ស្ថានីយបូមប្រោះទឹកកខ្វក់	២ ៤៦៦ ម ^២	- ភូមិវិចិត្រ២, សង្កាត់រតនៈ, ក្រុងបាត់ដំបង	- ក្បាលដីលេខ÷ 541 ចុះថ្ងៃទី ២៦-កុម្ភៈ-២០១៦
៤		អាងប្រព្រឹត្តិកម្ម	១០០ ០៦០ ម ^២	- ភូមិកូនដំរី, សង្កាត់និមិត្ត, ក្រុងប៉ោយប៉ែត	- ក្បាលដីលេខ÷៩៣២ កបប ចុះថ្ងៃទី ១១-មីនា-២០១៤
៥	ក្រុងឈាយម៉ែត	ស្ថានីយបូមប្រោះទឹកកខ្វក់	១ ៣៥៨ ម ^២	- សង្កាត់ផ្សារកណ្តាល, ក្រុងប៉ោយប៉ែត	- ក្បាលដីលេខ÷ I 0682 ចុះថ្ងៃទី ២៧-កក្កដា-២០១៧
៦	ក្រុងស្វាយរៀង	ស្ថានីយបូមប្រោះទឹកកខ្វក់	១ ៤៥៦ ម ^២	- ភូមិច្រកលាវ, សង្កាត់បារិត	- ក្បាលដីលេខ÷០៨៨/១៧ ចុះថ្ងៃទី ១៧-កុម្ភៈ-២០១៧

អាស្រ័យដ្ឋានបានគោរពជម្រាបជូនខាងលើ សូមឯកឧត្តមទេសរដ្ឋមន្ត្រី មេត្តាជ្រាប និងចាត់ចែង តាមការគួរ។
សូមឯកឧត្តមទេសរដ្ឋមន្ត្រី មេត្តាទទួលនូវការគោរពដ៏ខ្ពង់ខ្ពស់ ពិធី 

អនុរដ្ឋលេខាធិការក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ
និងជាប្រធានគណៈកម្មការក្រសួងដោះស្រាយផលប៉ះពាល់
របស់ក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ

ស្វាណ ឡេង

បម្លែងជូន៖

- អគ្គនាយកដ្ឋានទ្រព្យសម្បត្តិរដ្ឋ និង
- ប័ណ្ណលិខិតមែនសារព័ត៌មាន ភស្តុតាង
- ឯកសារ-កាលប្បវត្តិ

ទំព័រទី២នៃ២





Kingdom of Cambodia
Nation Religion King

Ministry of Economic and Finance
No. 4755
Phnom Penh, 31 May 2018
To H.E Senior Minister and Minister of MPWT

Objective: Hand over of land that IRC has already procured for the Southern Economic Corridor Town Development Project fund by ADB.

Reference:

- Letter No. 1879 dated 28 May 2015 of the Ministry of Public Works and Transport.
- Letter No. 2042 dated 10 June 2013 of the Ministry of Public Works and Transport.

I would like to inform His Excellency the Senior Minister that, at the request of the MPWT, the IRC in cooperation with the MPWT and the Sub-Committees of Svay Rieng, Battambang and Banteay Meanchey Consulted and procured land for the construction of WWTP of the above project already.

Therefore, the IRC would like to hand over the land that has been procured to the MPWT to enable the construction company to proceed with the construction process as planned and continue to manage and use these land locations in accordance with the laws and regulations in force from the date of handing over the documents.

Location of land that has been procured as following:

No.	Province/City	Sub-project	Land Size	Location	Certificate of title to immovable property
1	BTB	WWTP	101.569m ²	Norea Commune, Sang Kae District	Plot No: Bx0074 (Date 12 May 2015)
					Plot No: Bx 0075 (Date 12 May 2015)
					Plot No: Bx 0108 (Date 12 May 2015)
					Plot No: Bx 0110 (Date 12 May 2015)
2	BTB	WWTP	1.740m ²	Ben village, Anlong veal Commune, Sang Kae District	Plot No: 006 (Date 04 January 2017)
3			2.466m ²	Romchek 2 village, Sangkat Ratanak.	Plot No: 541 (Date 26 February 2016)
4			100.060m ²	Koundamrei village, Sangkat Nimit.	Plot No: 932 (Date 11 March 2014)
5	Poipet	WWTP	1.358m ²	Sangkar Phsakandal	Plot No: I 0682 (Date 27 July 2017)
6		WWTP	1.456m ²	Chrak Leav village, Sangkat Bavet.	Plot No: 088/17 (Date 17 February 2017)

As mentioned above, His Excellency the Senior Minister, please be informed and act accordingly.

Please accept, Excellency, the assurances of my highest consideration.

Under Secretary of State of MEF and Chief of IRC
Nhean Leng



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

គំរូសម្បទាញ
ជីកាច កន្លែងបែងចែកសំរាម

ក្រសួងឧស្សាហកម្ម រ៉ែ និងថាមពល ចុះថ្ងៃទី ១០ ខែ មេសា ឆ្នាំ ២០១៩ ស្ថិតនៅភ្នំពេញ ខេត្តបាត់ដំបង សង្កាត់ព្រៃរកស៊ី ក្រុងប៉ោយប៉ែត

លេខៈ ៤២៤ ចង្វាក់ ក្រសួងឧស្សាហកម្ម រ៉ែ និងថាមពល ព្រះរាជាណាចក្រកម្ពុជា ស្ថិតនៅភ្នំពេញ ខេត្តបាត់ដំបង សង្កាត់ព្រៃរកស៊ី ក្រុងប៉ោយប៉ែត	រាង ៨០m ទំហំ ៣២០០ ម៉ែត្រការ៉េ (MRF) ខ្សែង ៣៣	ស្ថាន សុភវរ្ម័ន	ទីលានចាក់សំរាម ប្រែប្រួលបែងចែក
	ផ្លូវថ្នល់ទីលានចាក់សំរាម		
លេខៈ ៤២៤ ចង្វាក់ ក្រសួងឧស្សាហកម្ម រ៉ែ និងថាមពល ព្រះរាជាណាចក្រកម្ពុជា ស្ថិតនៅភ្នំពេញ ខេត្តបាត់ដំបង សង្កាត់ព្រៃរកស៊ី ក្រុងប៉ោយប៉ែត	លេខៈ ៤២៤ ចង្វាក់ ក្រសួងឧស្សាហកម្ម រ៉ែ និងថាមពល ព្រះរាជាណាចក្រកម្ពុជា ស្ថិតនៅភ្នំពេញ ខេត្តបាត់ដំបង សង្កាត់ព្រៃរកស៊ី ក្រុងប៉ោយប៉ែត		
អ្នកបញ្ជូន	អ្នកទទួល		



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ខេត្តបន្ទាយមានជ័យ
រដ្ឋបាលក្រុងប៉ោយប៉ែត
លេខ: ២៥០/...លក

ថ្ងៃពុធ ១១ ខែ ឧសភា ឆ្នាំកុរ ឯកស័ក ព.ស ២៥៦៣
ក្រុងប៉ោយប៉ែត ថ្ងៃទី ៣១ ខែ ៥ ឆ្នាំ ២០១៩

លិខិតបញ្ជាក់
អំពីការ តែងតាំងអំពីការក្រុងប៉ោយប៉ែត

សូមបញ្ជាក់ថា

- ក្បាលដីលេខ ៖ ៦៨៥ សងក
- ទំហំ ៖ ៣ ២០០ (បីពាន់ពីររយម៉ែត្រការ៉េ)
- ទីតាំងស្ថិតនៅ ភូមិ ទួលពង្រ សង្កាត់ ផ្សារកណ្តាល ក្រុងប៉ោយប៉ែត ខេត្ត បន្ទាយមានជ័យ ពិតជាទ្រព្យរដ្ឋ ស្ថិតក្នុងបញ្ជីសារពើភណ្ឌរបស់រដ្ឋបាលក្រុងប៉ោយប៉ែតប្រាកដមែន។ រដ្ឋបាលក្រុងប៉ោយប៉ែត ចេញលិខិតបញ្ជាក់នេះ ដើម្បីស្នើសុំធ្វើវិញ្ញាបនបត្រសំគាល់អចលនវត្ថុ។

អំពីការក្រុង
អំពីការក្រុង
រដ្ឋបាលក្រុងប៉ោយប៉ែត
ឧប ឫទ្ធិ



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

គំរូសម្បទាញ
ព័ត៌មាន អំពីប្រភេទបែបបទសំរាប់

ក្បាលដីទ្រព្យលេខ...៦៨៨...សង្កាត់ ចុះថ្ងៃទី ១០ ខែមេសា ឆ្នាំ២០១៨ ស្ថិតនៅភូមិ ទួលពង្រ សង្កាត់ឃ្លាតកណ្តាល ក្រុងប៉ោយប៉ែត

លេខ: ២២៤/២០១៨
បានឃើញ និង ត្រូវបានបញ្ជាក់
អត្តសញ្ញាណប័ណ្ណ និង ឈ្មោះប្រភេទបែបបទ
ថ្ងៃចុះហត្ថលេខា: ១០ ខែមេសា ឆ្នាំ២០១៨... ព.ស ២៥៦២
ចុះហត្ថលេខា: ១០ ខែមេសា ឆ្នាំ២០១៨

លេខ: ២២៤/២០១៨
បានឃើញ និង ត្រូវបានបញ្ជាក់
អត្តសញ្ញាណប័ណ្ណ និង ឈ្មោះប្រភេទបែបបទ
ថ្ងៃចុះហត្ថលេខា: ១០ ខែមេសា ឆ្នាំ២០១៨... ព.ស ២៥៦២
ចុះហត្ថលេខា: ១០ ខែមេសា ឆ្នាំ២០១៨

ប្រធាន អង្គការ
អគ្គនាយកដ្ឋាន
អគ្គនាយកដ្ឋាន
អគ្គនាយកដ្ឋាន

អគ្គនាយកដ្ឋាន
អគ្គនាយកដ្ឋាន
អគ្គនាយកដ្ឋាន
អគ្គនាយកដ្ឋាន



Kingdom of Cambodia
Nation Religion King

Banteay Mean Chey Province
Administration of Poipet Municipality
No: 580/19
Poipet Municipality Date 30 August 2019

Certificate Letter
Governor of Poipet Municipality
Please note that

- Plot No: 685
- Land Size: 3200m²
- Location: Tuol PongRor Village, PhsaKandal Sangkat, Poipet Municipality, Banteay Mean Chey Province

Province Indeed, state property is on the Poipet City Administration's inventory.

Poipet Municipality issued this certificate to apply for a real estate certificate.

Poipet Municipality Governor
Deputy Governor

Touch Muny



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ខេត្តស្វាយរៀង
រដ្ឋបាលក្រុងបាទីក
លេខ ០១៣ រ.បក

ថ្ងៃសុក្រ ៥ រោច ខែពិសាខ ឆ្នាំច សំរឹទ្ធស័ក ព.ស ២៥៦២
បាវិត, ថ្ងៃទី ០៤ ខែឧសភា ឆ្នាំ ២០១៨

សូមគោរពជូន

ឯកឧត្តម ចៀង ពិសិដ្ឋ អគ្គនាយករង នៃអគ្គនាយកដ្ឋានសាធារណការ
និងជា នាយក គម្រោងអភិវឌ្ឍន៍សេដ្ឋកិច្ចក្រុងរបៀងខាងត្បូង
នៃក្រសួងសាធារណការ

កម្មវត្ថុ៖ ករណី ២០ ហិកតា សម្រាប់គម្រោងអភិវឌ្ឍន៍សេដ្ឋកិច្ចក្រុងរបៀងខាងត្បូង ស្ថិត
នៅភូមិត្រពាំងផ្លុង សង្កាត់បាទី ក្រុងបាវិត ។

តាមកម្មវត្ថុខាងលើ ខ្ញុំសូមគោរពជម្រាបជូន **ឯកឧត្តម** នាយកគម្រោង មេត្តា
ជ្រាបថា ចំពោះដីទំហំ ២០ ហិកតា សម្រាប់ផ្តល់ជូនក្នុងការអភិវឌ្ឍន៍គម្រោងអភិវឌ្ឍន៍សេដ្ឋកិច្ច
ក្រុងរបៀងខាងត្បូង របស់ក្រុងបាវិត សម្រាប់កន្លែងទីតាំងព្រែកសំរាម និង កន្លែងធ្វើអាង
ប្រតិកម្មទឹកស្អុយ ស្ថិតនៅភូមិត្រពាំងផ្លុង សង្កាត់បាទី ក្រុងបាវិត ខេត្តស្វាយរៀង ពិតជាដី
របស់រដ្ឋប្រគល់ឲ្យខេត្ត សម្រាប់អនុវត្តគម្រោងកន្លែងទីតាំងព្រែកសំរាម និង កន្លែងធ្វើអាង
ប្រតិកម្មទឹកស្អុយ ។

សេចក្តីដូចបានគោរពជម្រាបជូនខាងលើ សូម **ឯកឧត្តម** នាយកគម្រោង មេត្តា
ជ្រាបដឹងខ្ពស់ ។

សូម **ឯកឧត្តម** ទទួលនូវការគោរពរាប់អានដ៏ស្មោះអំពីខ្ញុំ ។


រដ្ឋបាលក្រុងបាទីក
ស្វាយរៀង
លីម សៀងហេង



Kingdom of Cambodia
Nation Religion King

Svay Rieng Province
Administration of Bavet Municipality
No: 013
Bavet Municipality: Date 04 May 2018

To H.E Vong Piseth, Deputy General Director of General Department of Public Works and Director of Southern Economic Corridor Town Development Project of MPWT

Objective: Case of 20 hectares of land for the Southern Economic Corridor Town Development Project in Trapeang Phlong village, Baty Sangkat, Bavet Municipality.

In response to the above objective, I would like to inform His Excellency the Director of the Southern Economic Corridor Town Development project that the 20 hectares of land to be provided for the development of MRF and WWTP in the Trapeang Phlong village, Baty Sangkat, Bavet Municipality, Svay Rieng Province, Indeed, the government has given the land to the province to implement the project.

Please be informed accordingly.
Please accept, Excellency, the assurances of my highest consideration.
Governor of Bavet Municipality
Deputy Governor
Lim Seang Heng



APPENDIX N
SUMMARY OF AGREED TIME-BOUND ACTIONS PLAN
(As of 30 September 2021)

No	Activity	Responsibility	Schedule	Updated Status
1.	Submit Revised project administration manual for ADB review	PMU	15-Sep-21	Done; Was submitted 18-Jan-21 to ADB and was disclosed on the website in the follow day.
2.	Re-submit to ADB semi-annual external monitoring report (EMR) for December 2019-June 2020 to ADB	DIMDM	15-Sep-21	. In progress
3.	Submit EMR for January-June 2021 to ADB	GDR/PMU	15-Oct-21	In progress
4.	Submit the consolidated social safeguards monitoring report on LAR for the entire project covering ass its subproject from January 2019 to end of September 2021 to ADB	GDR/PMU	15-Oct-21	In progress
5.	Submit VO1 for Neak Loeung Flood Control Dike for ADB review	PMU	15-Oct-21	In progress
6.	Submit Internal Monitoring Report (IMR) to PMU	DIMDM	31-Oct-21	In progress
7.	Submit SLEDDPs to ADB for review	PMU	31-Dec-21	PISCD commits to finish in 31-Dec-2021 In progress 90% 1. SLEDP Neak Loeung— Finalized stage 2. SLEDP Bavet— Finalized stage 3. SLEDP Battambang— Finalized stage 4. SLEDP Poipet— Finalized stage
8.	Conduct Training on EMP and GRM to the contractor and Environment GRM committee in Neak Loeung	PMU	15-Dec-21	Done; Training was held on 23-Sep-21.
9.	Submit Environmental Monitoring Report July-December 2021 to ADB for Review	PMU	15 -Jan-22	Not due yet
10.	Conduct Remaining Gender skill training to 151 Women HIV awareness raising in Neak	PMU	30-Apr-22	Not due yet



Ministry of Public Works and Transport, Kingdom of Cambodia
GMS: Southern Economic Corridor Towns Development Project

	Loeung			
11.	PISCD submits draft PCR to ADB for review and comment	PISCD	Q2-2023	Not due yet
12.	PMU submits draft PCR to ADB for review and comments	PMU	Q3-2023	Not due yet



APPENDIX O

PHOTOS COVID-19 PREVENTION IN PMU, CONTRACTOR CAMPSITE IN NEAK LOEUNG FLOOD CONTROL PROJECT, TRAINING AND AIR NOISE AND WATER QUALITY TESTING



Covid-19 Prevention in PMU



Project Signboard and GRM Signboard at Contractor Campsite (Neak Loeung)





Contractor Campsite (Neak Loeung)



Covid-19 posters were displayed in campsite and workers wear masks, temperature screening and wash hands

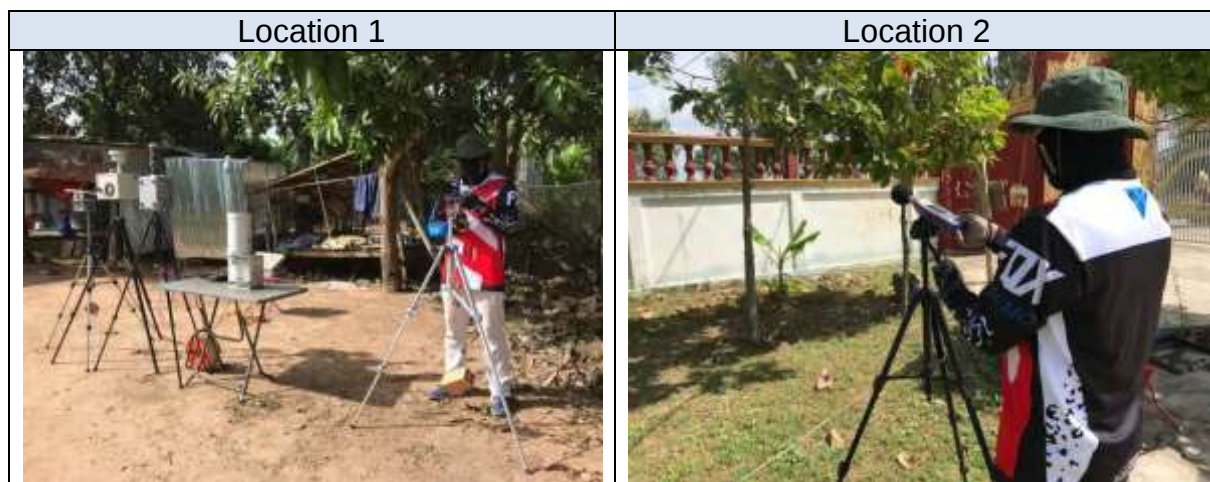


Training on Environmental Monitoring, GRM and COVID-19 September 22, 2021

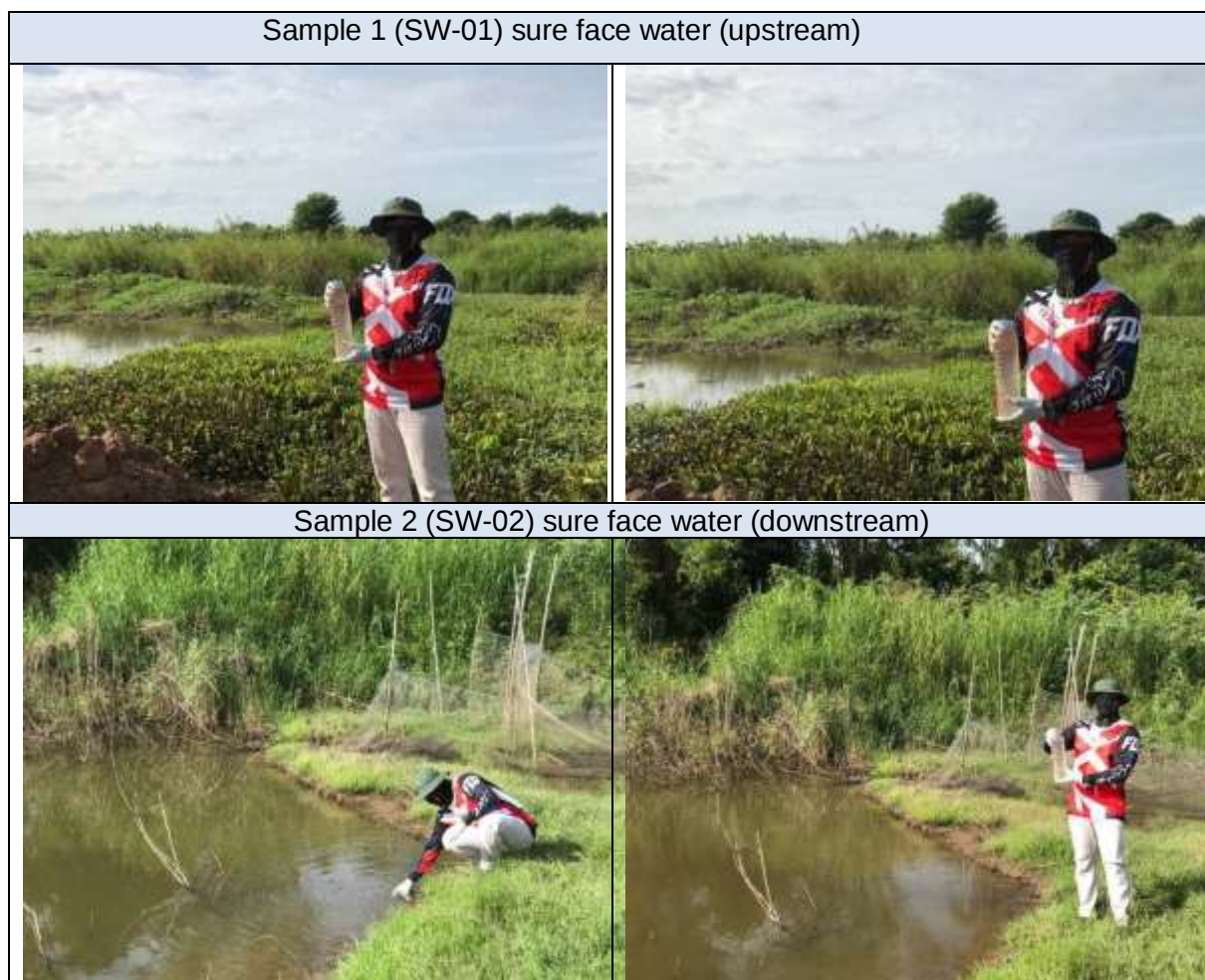




Ambient air quality, noise level and vibration level measurement. Prek Ta Shar village, Neak Loeung commune, Peam Ror district, Preyveng Province.



Water sampling, Prek Ta Shar village, Neak Loeung commune, Peam Ror district, Prey Veng Province.





APPENDIX P

RESULT OF AIR QUALITY, NOISE AND VIBRATION AND WATER QUALITY TESTING



អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មន្ទីរពិសោធន៍
LABORATORY

លេខ/N°: ១២៩-...-I.....ព.ស

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ព្រឹត្តិប័ត្រវិភាគ ANALYSIS REPORT

ប្រភពសំណាក/Sample Source: ក្រុមហ៊ុន MTA Construction Co., Ltd

កន្លែងយកសំណាក/Survey Point: ANV-1, ក្នុងតំបន់បង្កប់ទឹកជិតផ្លូវគោលដៅ Neak Loeng Flood Control Subproject (UN) ក្រសួងសាធារណការ និងដឹកជញ្ជូន
ស្ថិតក្នុងភូមិព្រែកតាស ឃុំប្រាសាទ ខេត្តព្រៃវែង, UTM 48 P 0530903 / 1242067

ថ្ងៃយកសំណាក/Sampling date: August 05, 2021

រយៈពេល/Sampling Period: 08:50 AM to 08:50 AM next day

ល.រ No	ចំណីវិទ្យុស Parameter	ឯកតា Unit	លទ្ធផល Result	ស្តង់ដារ Standard	វិធីសាស្ត្រវិភាគ Reference Method
1	Carbon Monoxide (CO)	mg /m ³	0.732	<20 (8 ម៉ោង)	Method Carbon Monoxide Passive Dosimeter
2	Nitrogen Dioxide (NO ₂)	mg /m ³	0.005	<0.10 (24 ម៉ោង)	Method Saltzman (ISO 6768:1998(E))
3	Sulfur Dioxide (SO ₂)	mg /m ³	0.012	<0.30 (24 ម៉ោង)	Method Pararosaniline (ISO 6767:1990(E))
4	Methane (CH ₄)	mg /m ³	ND	-	Method Portable CH ₄ gas Detector
5	PM10	mg /m ³	0.036	<0.05 (24 ម៉ោង)	Method Weight Concentration Measuring
6	PM2.5	mg /m ³	0.022	<0.025 (24 ម៉ោង)	Method Weight Concentration Measuring
7	Lead (Pb)	mg /m ³	ND	<0.005 (24 ម៉ោង)	Method 3500-Pb C (HNO ₃ /HCl Digestion)

សំគាល់: 1- ចំណីវិទ្យុស និងស្តង់ដារសម្រាប់វិធីសាស្ត្រវិភាគខាងលើនេះ គឺជាស្តង់ដារបច្ចេកទេស និងស្តង់ដារជាតិ (យោងទៅតាមប្រកាសលេខ១២០ ប្រ.ក.ប.ស ចុះថ្ងៃទី ១១ ខែ កក្កដា ឆ្នាំ២០១៨)
2- ឧបករណ៍វាស់ស្ទង់ ០.3 m/s ដល់ 3.0 m/s

បានឃើញនៅថ្ងៃទី ១២ ខែ សីហា ឆ្នាំ២០២១
អគ្គនាយក:
Was seen on date:
Director General



ចេញមកនៅ ថ្ងៃទី ១២ ខែ សីហា ឆ្នាំ២០២១

ប្រធានមន្ទីរពិសោធន៍
Date of Issue:
Director

លោក ឌី

ចេញមកនៅ ថ្ងៃទី ១២ ខែ សីហា ឆ្នាំ២០២១

អ្នកវិភាគ
Analyzer



អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មជ្ឈមណ្ឌល
LABORATORY

លេខ/N°: ១៩៩- II ព.ស

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

ប្រភពសំណាក/Sample Source: ក្រុមហ៊ុន MTA Construction Co., Ltd

កន្លែងយកសំណាក/Survey Point: ANV-1, កម្រិតសំន្រូងក្នុងទីតាំង គម្រោង Neak Loeng Flood Control Subproject IUD ក្រសួងសាធារណការ និងដឹកជញ្ជូន
ស្ថិតក្នុងភូមិព្រែកតាសំ ឃុំឃ្លូកឆៀង ស្រុកពោធិ៍ ខេត្តព្រៃវែង, UTM 48 P 0530903 / 1242057

ថ្ងៃយកសំណាក/Sampling date: August 05, 2021

រយៈពេល/Sampling Period: 08:50 AM to 08:50 AM next day

Survey Period		Noise Level dB(A)				Remarks
		LAeq	Standard (Leq)	Lmax	Lmin	
Day	6:00 - 7:00	54.3	75	63.9	41.9	
	7:00 - 8:00	55.3		64.2	43.6	
	8:00 - 9:00	55.0		66.3	41.0	
	9:00 - 10:00	56.2		67.3	42.4	
	10:00 - 11:00	55.9		65.7	43.3	
	11:00 - 12:00	53.3		65.7	38.2	
	12:00 - 13:00	55.0		64.6	42.6	
	13:00 - 14:00	48.7		63.1	31.6	
	14:00 - 15:00	54.0		64.3	41.0	
	15:00 - 16:00	54.9		65.9	41.1	
Evening	16:00 - 17:00	54.7	70	65.5	41.1	
	17:00 - 18:00	53.9		63.3	41.8	
	18:00 - 19:00	50.9		60.2	38.9	
	19:00 - 20:00	49.4		58.5	37.5	
Night	20:00 - 21:00	50.0	50	58.7	38.5	
	21:00 - 22:00	48.6		57.6	36.9	
	22:00 - 23:00	44.8		49.9	35.6	
	23:00 - 00:00	44.4		51.0	35.1	
	00:00 - 1:00	45.9		51.5	37.5	
	1:00 - 2:00	45.4		50.6	37.5	
	2:00 - 3:00	46.8		51.7	39.2	
	3:00 - 4:00	46.4		51.6	38.4	
Night	4:00 - 5:00	47.6		54.7	37.7	
	5:00 - 6:00	47.7		53.8	38.8	
24 hours Average		50.8		59.6	39.3	

សំគាល់: ព័ត៌មាន និងស្ថានភាពប្រតិបត្តិការស្រាវជ្រាវ អាចប្រែប្រួលបានដោយសារឥទ្ធិពលនៃការប្រែប្រួលបរិស្ថាន និងការប្រែប្រួលប្រព័ន្ធគ្រប់គ្រងបរិស្ថាន (Sound Level Meter NL-429K)

ចេញឯកសារនៅ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ ២០២១

ចេញឯកសារនៅ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ ២០២១

បានឃើញនៅ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ ២០២១

អគ្គនាយក:

Was seen on date:

Director General

ប្រធានមជ្ឈមណ្ឌល

Date of Issue:

Director

អ្នកវិភាគ

Analyzer



លោក វេជ្ជ



អគ្គនាយកដ្ឋានគាំពារបេស្ថាន
មន្ទីរពិសោធន៍
LABORATORY

លេខ/N°: ២៨៦-III-.....ព.ស

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

ប្រភពសំណាក/Sample Source: ក្រុមហ៊ុន MTA Construction Co., Ltd

កន្លែងយកសំណាក/Survey Point: ANV-1, កម្រិតកំពូលទឹកជំនន់ គម្រោង Neak Loeung Flood Control Subproject IUS ក្រសួងសាធារណការ និងដឹកជញ្ជូន
ស្ថិតក្នុងភូមិព្រែកពាស់ ឃុំអូរលៀង ស្រុកពាមក់ ខេត្តព្រៃវែង, UTM 48 P 0530903 / 1242067

ថ្ងៃយកសំណាក/Sampling date: August 05, 2021

រយៈពេល/Sampling Period: 08:50 AM to 08:50 AM next day

Time	Survey Period	Vibration Level dB				Remarks
		Leq	Standard(Leq)	Lmax	Lmin	
Day	6:00 - 7:00	37.3	65	41.0	17.4	
	7:00 - 8:00	35.2		40.5	17.6	
	8:00 - 9:00	36.4		40.9	18.6	
	9:00 - 10:00	35.2		46.0	18.2	
	10:00 - 11:00	37.6		41.9	17.0	
	11:00 - 12:00	40.7		46.5	18.6	
	12:00 - 13:00	38.6		42.2	18.7	
	13:00 - 14:00	38.0		41.5	18.3	
	14:00 - 15:00	38.7		43.3	17.9	
	15:00 - 16:00	37.1		39.6	18.2	
	16:00 - 17:00	39.6		45.6	17.4	
	17:00 - 18:00	39.6		44.3	18.6	
Night	18:00 - 19:00	34.1	50	40.6	15.7	
	19:00 - 20:00	31.4		39.8	15.5	
	20:00 - 21:00	31.7		40.2	15.6	
	21:00 - 22:00	31.7		41.3	14.5	
	22:00 - 23:00	26.7		31.2	14.6	
	23:00 - 00:00	31.4		40.8	14.4	
	00:00 - 1:00	31.8		41.5	14.6	
	1:00 - 2:00	30.0		37.8	14.6	
	2:00 - 3:00	30.4		36.6	14.6	
	3:00 - 4:00	30.7		39.1	14.8	
	4:00 - 5:00	30.5		38.9	14.6	
	5:00 - 6:00	32.1		41.6	15.0	
24 hours Average		34.4		41.0	16.5	

សំគាល់: ចំពោះកម្រិតទំនាញដែលបានប្រាប់ក្នុងតារាង វាត្រូវបានប្រើប្រាស់វិធីសាស្ត្រវិភាគសំបក និងទំនាញដែលបានប្រើប្រាស់ក្នុងកម្មវិធីស្រាវជ្រាវ Vibration Level Meter VM - 53A

បានឃើញនៅថ្ងៃទី ០៥ ខែ សីហា ឆ្នាំ ២០២១

អគ្គនាយក
Was seen on date:
Director General

ជា ស៊ីណា

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ សីហា ឆ្នាំ ២០២១

ប្រធានអង្គការ
Date of Issue:
Director

លោក ឌី

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ សីហា ឆ្នាំ ២០២១

អ្នកវិភាគ
Analyzer



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មន្ទីរពិសោធន៍
LABORATORY

លេខ/N°: ១២៦-IV.....ព.ស

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

ប្រភពសំណាក/Sample Source: ក្រុមហ៊ុន MTA Construction Co., Ltd

កន្លែងយកសំណាក/Survey Point: ANV-2, គណៈកម្មាធិការគ្រប់គ្រងជំនន់ទឹកជ្រាលជ្រះ Naeuk Loeung Flood Control Subproject IUS ក្រសួងសាធារណការ និងដឹកជញ្ជូន
ស្ថិតក្នុងភូមិព្រែករាស់ ឃុំជ្រកលើស្ទឹង ស្រុកពោធិ៍សាត់ ខេត្តព្រៃវែង, UTM 48 P 0532526 / 1244023

ថ្ងៃយកសំណាក/Sampling date: August 05, 2021

រយៈពេល/Sampling Period: 10:20 AM to 10:20 AM next day

ល.រ No	ចំណីវិភាគ Parameter	ឯកតា Unit	លទ្ធផល Result	ស្តង់ដារ Standard	វិធីសាស្ត្រវិភាគ Reference Method
1	Carbon Monoxide (CO)	mg /m ³	1.231	<20 (8 ម៉ោង)	Method Carbon Monoxide Passive Dositube
2	Nitrogen Dioxide (NO ₂)	mg /m ³	0.022	<0.10 (24 ម៉ោង)	Method Saltzman [ISO 6768:1998(E)]
3	Sulfur Dioxide (SO ₂)	mg /m ³	0.031	<0.30 (24 ម៉ោង)	Method Pararosaniline [ISO 6767:1990(E)]
4	Methane (CH ₄)	mg /m ³	ND	-	Method Portable CH ₄ gas Detector
5	PM10	mg /m ³	0.048	<0.05 (24 ម៉ោង)	Method Weight Concentration Measuring
6	PM2.5	mg /m ³	0.025	<0.025 (24 ម៉ោង)	Method Weight Concentration Measuring
7	Lead (Pb)	mg /m ³	ND	<0.005 (24 ម៉ោង)	Method 3500-Pb C(HNO ₃ ,HCl Digestion)
សំគាល់: 1- ព្យាបាល និងស្តង់ដារសម្រាប់គុណភាពខ្យល់ តាមស្តង់ដារស្តីពីការគ្រប់គ្រងគុណភាពខ្យល់ និងទស្សនៈបរិស្ថាន (របស់អង្គការសហប្រជាជាតិ ប្រកាសលេខ១២០ ប្រ.ប.ស ចុះថ្ងៃទី ១១ ខែ មេសា ឆ្នាំ២០១៨) 2- ខ្យល់មានល្បឿន 0.3 m/s ដល់ 3.8 m/s					

ចេញរបាយការណ៍ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ២០២១ ចេញរបាយការណ៍ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ២០២១

បានឃើញនៅថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ២០២១

អគ្គនាយក
Was seen on date:
Director General

ប្រកាសបញ្ជីលេខ
Date of Issue:
Director

វិភាគ
Analyzer



លេខ ៥៤



ନଂ/N°: ୭୭୩-V.....ପ.ସ

ITU:IRRI/Sampling Period: 10:20 AM to 10:20 AM next day

គំនិតចង់ បាត់ខ្មែរ និងចង់ដឹងអក្ខរកថាភាសាខ្មែរ អក្ខរកថាខ្មែរក្នុងអត្ថបទនិងវិធីសាស្ត្រអក្ខរកថាខ្មែរ និងទស្សនវិស័យ របស់អង្គការសហប្រជាជាតិ ក.អ.អូ ចុះថ្ងៃទី ១១ ខែ មេសា ឆ្នាំ២០១៤) (Sound Level Meter NL-420X)

ចេញអោយនៅ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ ២០២១ ចេញអោយនៅ ថ្ងៃទី ១១ ខែ សីហា ឆ្នាំ ២០២១

បានឃើញនៅថ្ងៃទី ២១ ខែ សីហា ឆ្នាំ ២០២១
 អគ្គនាយក
 Was seen on date:
 Director General

ប្រធានអង្គការស្រាវជ្រាវ
Date of Issue:
Director

Analyst


গণন শ্রে

២- ស៊ីលា

អគារបច្ចេកវិទ្យាវិទ្យាល័យបេសាក់ ផ្លូវលេខ៣៣ ភូមិបេសាក់ សង្កាត់បេសាក់ ខណ្ឌបឹងកេងកង ភ្នំពេញ The Heritage Tech Building, Lot 33, Teme Bessac, Chancemom, Phnom Penh, ១២៥០៥១៣០០



អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មជ្ឈិមភាគ
LABORATORY

លេខ/Nº: ១៤៦-VI.....ព.ស

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

10:00/Sampling Period: 10:20 AM to 10:20 AM next day

Time	Survey Period	Vibration Level dB				Remarks
		Leq	Standard (Leq)	Lmax	Lmin	
Day	6:00 - 7:00	43.9	65	44.8	14.1	
	7:00 - 8:00	42.1		51.0	14.2	
	8:00 - 9:00	43.3		52.4	15.3	
	9:00 - 10:00	45.6		50.5	15.7	
	10:00 - 11:00	41.3		46.4	15.2	
	11:00 - 12:00	40.7		51.0	15.5	
	12:00 - 13:00	40.3		46.7	16.9	
	13:00 - 14:00	41.0		46.0	17.1	
	14:00 - 15:00	42.9		47.8	17.0	
	15:00 - 16:00	40.9		44.3	16.5	
	16:00 - 17:00	42.9		46.1	16.7	
Night	17:00 - 18:00	40.4	60	48.8	15.5	
	18:00 - 19:00	34.8		43.1	14.9	
	19:00 - 20:00	32.9		39.1	14.9	
	20:00 - 21:00	31.5		37.5	13.7	
	21:00 - 22:00	31.1		35.6	14.7	
	22:00 - 23:00	34.2		38.5	15.0	
	23:00 - 00:00	39.9		43.1	14.8	
	00:00 - 1:00	31.2		37.8	14.7	
	1:00 - 2:00	33.8		40.1	15.7	
	2:00 - 3:00	33.0		40.2	14.2	
	3:00 - 4:00	32.1		38.7	15.9	
24 hours Average	4:00 - 5:00	35.0		40.5	14.0	
	5:00 - 6:00	32.2		38.2	14.7	

គំរូបទិន្នន័យ ០១២២៣ និងសម្រាប់ការកែលម្អផ្លូវ សាកលវិទ្យាល័យជាតិបឹងកេងកង ភ្នំពេញ និងទីសាលាដំបូង ខណ្ឌទួលគោក រាជធានីភ្នំពេញ។

បានឃើញនៅថ្ងៃទី ២២ ខែ សីហា ឆ្នាំ ២០១១
 អនុបាយកៈ
 Was seen on date:
 Director General

ចេញអនុញ្ញាត ឲ្យ លោក វណ្ណៈ ទៅ ស្រុក ថ្ងៃទី ០២ ខែ ០២ ឆ្នាំ ២០២១

ប្រធានអង្គការសាសនា
Date of Issue
Director

පත්‍රලේඛයේ දිනය 2023

អ្នកវិភាគ
Analyst

Was seen on date: _____
Director General _____
Signature _____
Date _____

ផែន រដ្ឋ

គោលដៅរបស់ក្រុមហ៊ុនរបស់យើង ផ្តល់សេវាដល់អតិថិជនរបស់យើង ដោយផ្តល់នូវការសម្របសម្រួល និងការសម្របសម្រួលដល់អតិថិជនរបស់យើង។ The Heritage Techo Building, Lot 503, Tonle Sap, Chamkarmor, Phnom Penh, កម្ពុជា ០៩៣០-០១៣៥០៨



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មន្ទីរពិសោធន៍
LABORATORY

លេខ/N°: ០៦២-៣ ព.ស

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

ប្រភពសំណាក/Sample Source : ក្រុមហ៊ុន MTA Construction Co., Ltd					
ថ្ងៃ ខែ ឆ្នាំទទួលសំណាក/Date: August 05, 2021					
ប្រភេទសំណាក/Type of Sample: SW-DI, ទឹកប្រឡាយ គម្រោង Neak Loeng Flood Control Subproject 10km ក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ					
ស្ថិតក្នុងក្រុង/ឃុំ/សង្កាត់/ខេត្ត/ប្រទេស: ខេត្តព្រៃវែង, UTM 48 P 0531353 / 1241996					
No	ប៉ារ៉ាម៉ែត្រ Parameter	ឯកតា Unit	លទ្ធផល Result	បង្ហាញ Standard	វិធីសាស្ត្រវិភាគ Reference Method
1	pH	-	7.20	6.5-8.5	Method pH Meter
2	Dissolved Oxygen (DO)	mg/L	0.60	7.5-2.0	Method DO Meter
3	Turbidity	NTU	22.00	NV	Method Digital Turbidimeter
4	Total Dissolved Solid (TDS)	mg/L	268.00	<1000	Method TDS Meter
5	Total Suspended Solid (TSS)	mg/L	81.00	25-100	Method 2540 D
6	Biochemical Oxygen Demand (BOD)5	mg/L	2.96	1.0-10	Method 5210 B
7	Chemical Oxygen Demand (COD) Mn	mg/L	8.74	<50	Method JIS K 0102
8	Total Coli form	MPN/100ml	2.4X10 ⁴	<5000	Method NF T90-413

សំគាល់: 1- ការវាយតម្លៃសំណាក តាមក្របខ័ណ្ឌ និងការដឹកជញ្ជូនសំណាកតាមបង្គោលស្ថិតនៅក្នុងក្រុមហ៊ុន (គំរោង) ត្រូវតែដោយខ្លួនឯង។
2- standards: លើសពី ០១ និងមិនមែនជាលក្ខណៈទឹកស្អាត តាមក្របខ័ណ្ឌស្ថិតនៅក្នុងក្រុមហ៊ុន និងក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ ខេត្តព្រៃវែង ១២០ ប្រ.ក.ប.ស ចុះថ្ងៃទី ១១ ខែ ឧសភា ឆ្នាំ ២០១៨។
3- ND Mean Not Detected (Lower than LD), NV Mean No Value.
4- គោលបំណងនៃការវិភាគ ពិនិត្យតាមដានគុណភាពទឹក

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ ឧសភា ឆ្នាំ ២០២១

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ ឧសភា ឆ្នាំ ២០២១

បានឃើញនៅថ្ងៃទី ០៥ ខែ ឧសភា ឆ្នាំ ២០២១

អគ្គនាយក

Was seen on date:

Director General

ប្រធានមន្ទីរពិសោធន៍

Date of Issue:

Director

អង្គការ

Analyzer



លេខ ២៤



ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

អគ្គនាយកដ្ឋានគាំពារបរិស្ថាន
មជ្ឈមណ្ឌលសាងសង់
LABORATORY

លេខ/N°: ២៤០៩/២០២១ ព.ស

ព្រឹត្តិប័ត្រវិភាគ
ANALYSIS REPORT

ប្រភពសំណាក/Sample Source : ក្រុមហ៊ុន MTA Construction Co., Ltd ថ្ងៃ ខែ ឆ្នាំទទួលសំណាក/Date: August 05, 2021 ប្រភេទសំណាក./Type of Sample: SW-02, ទឹកប្រឡាយ គម្រោង Neak Leung Flood Control Subproject IUS ក្រសួងសាងសង់ និងកសិកម្ម ស្ថិតក្នុងភូមិព្រែកតាសំ ឃុំព្រែកលៀង ស្រុកពាមរក៍ ខេត្តព្រៃវែង, UTM 48 P 0531022 / 1242066					
No	ប៉ារ៉ាម៉ែត្រ Parameter	ឯកតា Unit	លទ្ធផល Result	ចំណុចប្រៀបធៀប Standard	វិធីសាស្ត្រវិភាគ Reference Method
1	pH	-	7.30	6.5-8.5	Method pH Meter
2	Dissolved Oxygen (DO)	mg/L	1.80	7.5-2.0	Method DO Meter
3	Turbidity	NTU	18.00	NV	Method Digital Turbiditymeter
4	Total Dissolved Solid (TDS)	mg/L	126.00	<1000	Method TDS Meter
5	Total Suspended Solid (TSS)	mg/L	40.00	25-100	Method 2540 D
6	Biochemical Oxygen Demand (BOD) 5	mg/L	2.50	1.0-10	Method 5210 B
7	Chemical Oxygen Demand (COD) Mn	mg/L	5.72	<50	Method JIS K 0102
8	Total Coli form	MPN/100ml	2.1X10 ³	<5000	Method NF T90-413

កំណត់: 1- ការយកសំណាក ការត្រួតពិនិត្យ និងការវិភាគសំណាកតាមបទដ្ឋានស្ថាប័នក្រុមហ៊ុន (កំណត់) អនុវត្តដោយបុគ្គលិក។
 2- Standards: ចំណុចប្រៀបធៀប និងល្បឿនប្រតិបត្តិការតាមបទដ្ឋានស្ថាប័នក្រុមហ៊ុន (កំណត់) អនុវត្តដោយបុគ្គលិក។
 3- ND Mean Not Detected (Lower than LOD), NV Mean No Value.
 4- គោលបំណងវិភាគ គឺដើម្បីត្រួតពិនិត្យគុណភាពទឹក

បានឃើញនៅថ្ងៃទី ០៥ ខែ វិច្ឆិកា ឆ្នាំ ២០២១

អគ្គនាយក:
Was seen on date:
Director General

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ វិច្ឆិកា ឆ្នាំ ២០២១

ប្រធានមជ្ឈមណ្ឌល
Date of Issue:
Director

ឆែក ជឿ

ចេញអោយនៅ ថ្ងៃទី ០៥ ខែ វិច្ឆិកា ឆ្នាំ ២០២១

អ្នកវិភាគ
Analyzer



APPENDIX Q: TRAINING REPORT ON ENVIRONMENTAL MONITORING, GRM AND COVID-19

Ministry of Public Works and Transport
Kingdom of Cambodia

GMS: Southern Economic Corridor Towns Development Project

Loan 2983-CAM(SF), Loan 8265-CAM(SCF)
Grant 0334-CAM (UEIF), Grant 0335-CAM (SCF)

TRAINING REPORT

On

Environmental Monitoring, GRM and COVID-19

September 22, 2021





1. BACKGROUND

The Greater Mekong Sub-region (GMS) Southern Economic Corridor Towns Development Project (SECTDP) is a milestone project of the Asian Development Bank (ADB) being the first major urban sector development assistance of the ADB in the GMS that integrates urban environment improvement and economic infrastructure with institutional capacity development. The project is designed to support the regional cooperation strategy of the ADB in guiding urban development in Cambodia.

Institutional and individual capacities will be developed along the areas of project management and implementation; social, gender, resettlement and environment safeguards; project monitoring, reporting and evaluation, fundamental technical training and urban infrastructure operation and maintenance, and urban mapping. The Training Program has been designed to improve the capacity of the Executing Agency (EA) through its Project Management Unit (PMU), as well as the Implementing Agencies (IAs), Project Implementation Units (PIUs) and contractors to manage and implement priority urban infrastructure and essential support services. The training is intended to ensure not only the smooth implementation of urban infrastructure, but also to provide sustainable management and operation and maintenance of the infrastructure.

2. INTRODUCTION

The training on Environmental Monitoring, GRM and COVID-19 was trained by Mr. Song Kim Chhuon, Environmental Specialist. Number of participants attended in the training course is shown in Table 1 and the training schedule and attendant list is shown in annex 1 and annex 2.

Table 1: Participants of Target Group

No.	Target Groups	Number of Participant
1	Project Management Unit (PMU)	2
2	Project Implementation Unit (PIU), Neak Loung	3(1woman)
3	Construction Supervision (CS)	1
4	Contractor MTA (Neal Loeung Flood Control)	2
5	District Environmental Officer	1
6	Commune Council (Neak Loeung and Prek Khsay Khor communes)	2
	total	11 (1 woman)

3. OBJECTIVE AND EXPECTED OUTPUTS

The objective and expected outputs of the environmental monitoring, GRM and COVID-19 training are as follows:

- a. Enhance the awareness of PMU, PIU, CS, Commune Council, District Environmental Officer and contractors on environmental monitoring, GRM and COVID-19 during construction and operation.



- b. Cite the role of each member of the PMUs, PIUs, CS, Commune Council, District Environmental Officer and Contractors on environmental monitoring, GRM and COVID-19 prevention.

4. TRAINING MATERIALS

The training materials were provided to all the participants. The training presentation handout entitled Environmental Monitoring, GRM and COVID-19. All training materials, including: agenda handouts, pre-test and post-test were available to the participants. All of these documents are presented in the EMPs in each town. The materials were prepared according to the agree action plan and developed by the PISCD Consultant's Environmental Specialist. The materials were submitted to the PMU for review and approval in advance of the Training Session.

5. VENUE

The training was held on 22 September 2021, PIU Office in Peam Ror district, Neak Loeung, Prey Veng Province, Kingdom of Cambodia.

Table 2: Training Contents/Topics

No.	Topic	Sub-Topic	Methodology	Materials
1	Registration	Arrival/Registration of Participants	- Participants fill up registration sheets - Distribution of training Materials	- Registration Sheet - Plastic bags, note books, and pens - Training manual with about 35 pages
2	Brief Overview of the whole project	Refresh project activities in general	- Facilitator ask the participant to recall previous lesson - Power point presentation:	- White board, flip chart and markers - Computer and LCD - Handout
3	Environmental Monitoring	The definition step of monitoring, role and responsibility	- Facilitator ask the participant to recall previous lesson - Power point presentation	- White board, flip chart and markers - Computer and LCD - Handout



No.	Topic	Sub-Topic	Methodology	Materials
4	Environmental monitoring before construction	Impact and mitigation, responsibility and monitoring	- Facilitator ask the participants - Power point presentation	- White board, flip chart and markers - Computer and LCD - Handout
5	Environmental monitoring during construction	Impact and mitigation, responsibility and monitoring	- Presentation and panel discussion	- Handout - Computer and LCD
6	Environmental monitoring after construction	Impact and mitigation, responsibility and monitoring and discussion	- Facilitator ask the participants - Power point presentation	- Handout - Computer and LCD - White board, flip chart and markers
7	GRM	Complaint and resolution, complaint letter and record (logbook), disclosure and discussion	- Facilitator ask the participants - Power point presentation	- Computer and LCD - White board, flip chart and markers
8	Covid-19	key messages on Covid-19 to participants, prevention and mitigation measure, disclosure	- Facilitator ask the participants - Power point presentation	- Computer and LCD - White board, flip chart and markers

6. TRAINING EVALUATION

Five questions of pre- and post-tests were designed to assess the improvement of participants learning such as: their knowledge and skills as a result of the training. Pre-Post Test was delivered to the participants before and after module training. The result of assessment result is shown in the Figure 1. The comparison of pre-posttest is presented in Table 3.

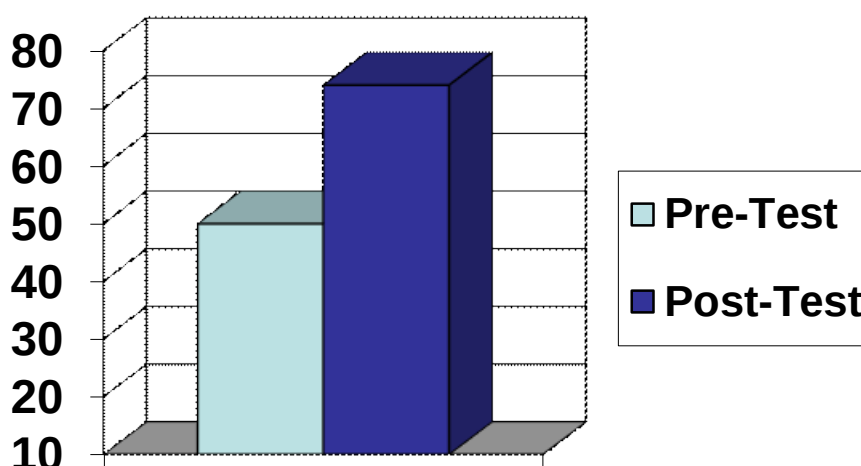


Figure 1: The Comparison of Pre-Post Test

Figure 1 is expressed the score of each participant in pre-and post-test. The score of the participant from pre-to post-test were increase only 24 percent. It has noted that this module very new and quite hard for some participants and easy understand for some participants to learn and get it.

Table 3:

Test	Poor		Fair		Good		Very Good	
	<50	%	50<60	%	60<70	%	>70	%
Pre-Test	5	45	6	55	0	0	0	
Post-Test	1	10	5	40	2	20	3	30

Table 3: Pre-Test and Post-Test Comparison

The maximum score of post-test are higher than pre-test. Furthermore, the maximum score of post-test is >70 (30%) and minimum score is <50 equal only 10%, It is shown that the participants' knowledge and skill of the material were increased as a result of the training.

Annex 1:

Training Schedule on Environmental Monitoring, GRM and Covid-19 in Neak Loeung on 22 September, 2021

Time	Objective/Activities	Remark
21 September, 2021		



Ministry of Public Works and Transport, Kingdom of Cambodia
GMS: Southern Economic Corridor Towns Development Project

12:00 – 16:00	Travel from PP to Neak Loeung	
22 September, 2021		
08:00 – 08:30	Registration of participants	All participants
08:30 – 08:40	Speak opening	PIU Chief
08:40 – 09:00	Pre-test	All participants
09:00 – 09:10	Introduction	Environmental Specialist
09:10 – 09:30	Coffee break	
09:30 – 10:30	Environmental Monitoring	Environmental Specialist
10:30 -11:30	Discussion	All participants
11:30 – 13:30	Break for lunch	
13:30 – 14:00	Grievance Redress Mechanism (GRM)	Environmental Specialist
14:00 – 14:15	Discussion	All participants
14:15 – 14:40	Coffee break	
14:40 – 15:30	Covid-19	Environmental Specialist
15:30 – 15:45	Discussion	All participants
15:45 – 16:00	Wrap Up	Environmental Specialist
16:00 – 16:15	Post-test	All participants



Annex 2: Attendant list

បញ្ជីអ្នកចូលរួមគម្រោង: គម្រោងអភិវឌ្ឍន៍សេដ្ឋកិច្ចក្រុងរៀងរាល់គ្នា

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កម្មវិធី ២៩៨៣-CAM (SF) កម្មវិធី ៨២៦៨-CAM (SCF)

ជំនួយឥតសំណង់ ០៣៣៤-CAM (UEIF) ជំនួយឥតសំណង់ ០៣៣៨-CAM (SCF)

បញ្ជីអ្នកចូលរួម

Attendant List

វគ្គបណ្តុះបណ្តាលស្តីពី ការត្រួតពិនិត្យបរិស្ថាន បណ្តឹងកត់ត្រា និង កូវីដ-១៩

Training on Environmental Monitoring, GRM and Covid-19

ថ្ងៃទី ១១ ខែ កញ្ញា ឆ្នាំ ២០២១

ទីកន្លែង: បណ្ណាល័យ ៣៧០៩

ល.រ No	នាមនិងគោត្តនាម Name	ភេទ Sex	តួនាទី Occupation	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
១	ៗ លី ធីតា	ប	PIU	0978006040	
២	លី ធីតា	ប	PIU	0977577711	
៣	លី ធីតា	ប	ប្រធានក្រុមប្រឹក្សា	069401288	
៤	លី ធីតា	ប	ប្រធានក្រុមប្រឹក្សា	088.222.67.37	
៥	លី ធីតា	ប	ប្រធានក្រុមប្រឹក្សា	093427117	



ល.រ No	នាមនិងគោត្តនាម Name	ភេទ Sex	តួនាទី Occupation	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
៦	គឹម លោក	ប្រុស	ក្រសួងសាងសង់	016 637 555	
៧	គ្រីស្ទ ក្រីស្ទ	ប្រុស	សេវាកម្ម	015 283857	
៨	ឃុន ហ៊ុន	ប្រុស	—	070944095	
៩	ស៊ីម ឈុន	ប្រុស	ប្រតិបត្តិករ	096725119	
១០	ហ៊ុន ហ៊ុន	ប្រុស	ប្រតិបត្តិករ	012 82551	
១១	ស៊ីម ឈុន	ប្រុស	ប្រតិបត្តិករ	012 916 545	
១២	ស៊ីម ឈុន	ប្រុស	PMU	012 451545	
១៣	ស៊ីម ឈុន	ប្រុស	PMU		
១៤	ស៊ីម ឈុន	ប្រុស	ប្រតិបត្តិករ	011 78 7377	
១៥					
១៦					
១៧					



Annex 3: Photos





APPENDIX R: TRAINING REPORT ON GENDER AWARENESS AND GENDER ACTION PLAN ORIENTATION

Ministry of Public Works and Transport
Kingdom of Cambodia

GMS: Corridor Towns Development Project Cambodia

Loan 2983-CAM (SF), Loan 8265-CAM (SCF),
Grant 0334-CAM (UEIF), Grant 0335-CAM (SCF)

TRAINING REPORT

On

Gender Awareness and Gender Action Plan Orientation

September 23, 2021





1. BACKGROUND

The Greater Mekong Subregion (GMS) Southern Economic Corridor Towns Development Project is a milestone project of the Asian Development Bank (ADB) being the first major urban sector development assistance of the ADB in the GMS that integrates urban environment improvement and economic infrastructure with institutional capacity development for sustained economic growth. The project is designed to support the regional cooperation strategy of the ADB in guiding urban development in Cambodia.

A training on Gender Action Planning was initially conducted on 4-5 January, 2017 to improve the capacities of the Executing Agency (EA) through its Project Management Unit (PMU) as well as the Implementing Agencies (IAs) and Project Implementation Units (PIUs) to manage and implement priority urban infrastructure and essential support services. Total number of participants was 14, 9 men (65%) and 5 (35%) women.

The first refresher training on GAP was conducted on 8-9 July 2018 for Battambang, Poipet and Bavet conducted due to the results of field gender monitoring reveal that there are PIU staffs who were replaced, particularly, Gender Focal point staffs and the new replacements are unclear of the GAP action targets as well as their roles and responsibilities in GAP implementation and monitoring. Moreover, other new stakeholders will now be involved which include the Gender Mainstreaming Action Group of Ministry of Public Works and Transportation (GMAG/MPWT), Ministry/Provincial Department of Women's Affairs (M/PPDoWA), health educators from the Provincial Department of Health and Civil Work Contractors. During the project mid-term review wrap-up meeting last April, 2018, ADB mission recommended to organize a refresher course on Gender Action Plan and its targeted activities which is aimed at orienting the new stakeholders hopefully, towards strengthening the PMU, PIUs, other project partners' capacities for active involvement with the project.

There is now a need to conduct second refresher training to PIUs and stakeholders at Neak Loeung to assure the proper implement of the GAP. To address the above-mentioned gender mainstreaming concerns in the project, the GAP Refresher Course for PIUs, M/PPDoWA, PDoH and Civil Work Contractors of Neak Loeung was held one day on September 23, 2021 at PIU office, Peam Ro District.

2. INTRODUCTION

The refresher training on Gender Awareness and Gender Action Plan was conducted by Ms. Houth Ratanak, Gender Specialist. Number of participants attended in the training course is shown in Table 1 and the training schedule and attendant list is shown in annex 1 and annex 2.

Table 2: Participants of Target Group

No.	Institution	Position	Total
1	Project Management Unit (PMU)	- 1 Gender Focal Person - 1 Social and Environmental Affairs	2



2	Construction Supervision	- 1 Engineer	1
2	Project Implementation Units (PIUs)	- 1 Chief of PIU/Deputy Chief of PIU - 1 Social & Environmental Officer - 1 PIU in charge Gender	3
3	Commune councilors in charge for women and children (CCWC)	- 2 CCWC members	2
4	Civil Work Contractors	- Neak Loeung Flood Control	2
5	Environmental Officer	- Neak Loeung	1
	Total		11

3. OBJECTIVE AND EXPECTED OUTPUTS

The objective and expected outputs of the Gender Awareness and Gender Action Plan and reporting training are as follows:

- Discuss gender laws and gender safeguards policies from the perspectives of both RGC and ADB which apply to the project.
- Identify gender action targets/propose mitigation measures in the project GAP that require updating based on current situation prevailing in the project areas.
- Prepare an indicative subproject gender action plan and discuss monitoring template/report.

4. TRAINING MATERIALS

The training materials were provided to all the participants. The training presentation handout entitled Gender Awareness and Gender Action Plan and Reporting. All training materials, including: agenda handouts, pre-test and post-test were available to the participants. All of these documents are presented in each target town. The materials were prepared according to the agreed action plan and developed by the Gender Specialist. The materials were submitted to the PMU for review and approval in advance of the Training Session.

5. VENUE

This training took place on 23 September 2021, at Neak Leung PIU Office, Peam Ro district, Prey Veng province.

6. Module Content

No.	Topic	Sub-Topic	Methodology	Materials
1	Registration	Arrival/Registration of Participants	- Participants fill up registration sheets - Distribution of training Materials	- Registration Sheet - Plastic bags, note books, and



Ministry of Public Works and Transport, Kingdom of Cambodia
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No.	Topic	Sub-Topic	Methodology	Materials
				pens - Training manual
2	Brief Overview of the whole project	Refresh project activities in general	- Facilitator ask the participant to recall previous lesson - Power point presentation:	- White board, flip chart and markers - Computer and LCD - Handout
3	Gender Concept	The definition of gender, role and responsibility	- Facilitator ask the participant to recall previous lesson - Power point presentation: Constitutional Laws, Rectangular Strategy Phase III, Gender Mainstreaming for the Sub-National Administration, and Neary Rattanak IV -	- White board, flip chart and markers - Computer and LCD - Handout
4	Policy promoting Gender	RGC's gender laws, regulations and policies	- Facilitator ask the participant to recall previous lesson - Power point presentation: Constitutional Laws, Rectangular Strategy Phase III, Gender Mainstreaming for the Sub-National Administration, and Neary Rattanak IV	- White board, flip chart and markers - Computer and LCD - Handout
		ADB's Safeguards Policy Statements and its Gender and Development Policy	- Facilitator ask the participant to recall previous lesson - Power point presentation: ADB's Safeguards Policy Statements and its Gender and Development Policy	



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No.	Topic	Sub-Topic	Methodology	Materials
		Update the progress of project GAP targets	- Power Point presentation: The progress of project GAP targets - Panel discussion on GAP implementation which contribute to the project GAP and targets	- Handout - Computer and LCD - White board, flip chart and markers
5	Gender Mainstreaming into the project	The concept how gender been mainstreamed into the project	- Presentation and panel discussion	- Handout - Computer and LCD
6	Overall GAP: whole project and stakeholders	Go through together on the Project Gender Action Plan and stakeholder responsibilities	- Present Gender Action Plan table - Group discussion on stakeholders action plan	- Handout Gender Action Plan - Computer and LCD - White board, flip chart and markers
7	The challenging of GAP implementation	The possibility challenges and mitigation of GAP implementation,	- Brainstorming about the challenges and mitigation,	- White board, flipchart and markers

Ten questions of pre- and post-tests were designed to assess the improvement of participants learning such as: their knowledge and skills as a result of the training. Pre-Post Test was delivered to the participants before and after module training. The result of assessment result is shown in the Figure 1. The comparison of pre-posttest is presented in table 2.

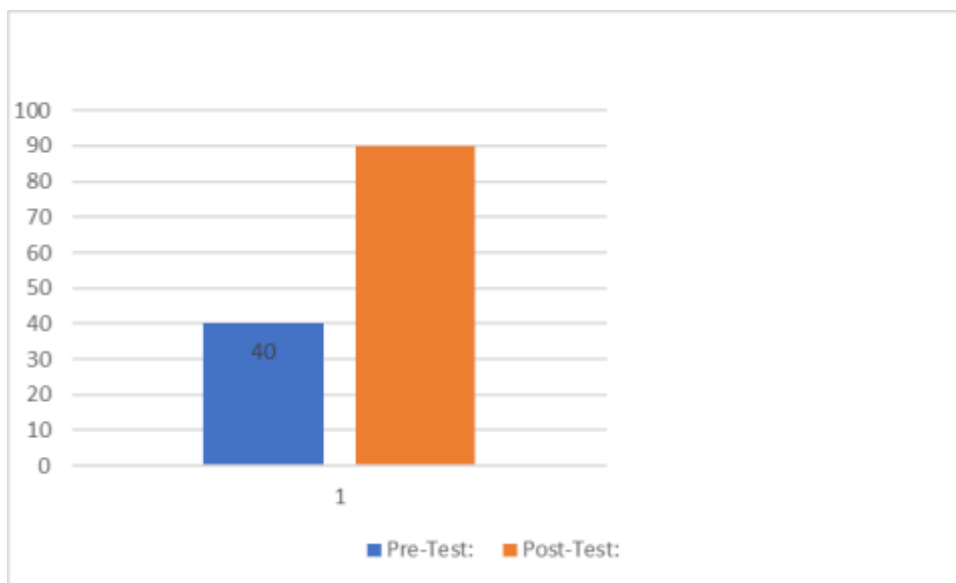


Figure 2: The Comparison of Pre-Post Test

Figure 1 is expressed the score of each participant in pre-and post-test. The score of the participant from pre-to post-test were increase about 50 percent.

Test	Poor		Fair		Good		Very Good	
	<50	%	50<60	%	60<70	%	>70	%
Pre-Test	5	50	5	50	0	0	0	
Post-Test	1	10	0	0	0	0	9	90

Table 2: Pre-Test and Post-Test Comparison

The maximum score of post-test are higher than pre-test. Furthermore, the maximum score of post-test is >70 (90%) and minimum score is <50 equal only 10%, It is shown that the participants' knowledge and skill of the material were increased as a result of the training.



Annex 1:

**Refresher Training on Gender Awareness and GAP Orientation
On September 23, 2021 Neak Leung PIU office**

Time	Topic
07:30 – 08:00	Registration of participants
08:00 – 08:30	Remarks and introduction
08:30 – 09:00	Pre-test
09:00 – 09:40	Overview of the project
09:40 – 10:00	Coffee break (including Group Photo)
10:00 – 11:00	The Gender's Concept
11:00 -12:00	Policy Promoting Gender: ▪ RGC's Gender laws, regulations and, ▪ Policies ADB's Safeguards Policy Statements and its Gender and Development Policy
11:00 – 12:00	Gender Mainstreaming into the project
12:00 – 13:30	Break for lunch
13:30 – 13:40	Gender Mainstreaming into the project
13:40 – 15:00	Gender Action Plan (GAP) – whole and stakeholders
15:00 – 15:15	Coffee break
15:15 – 16:40	Roles and Responsibilities for GAP implementing
16:40 – 17:00	The Challenging in Implementing GAP and Wrap Up, End Session



Annex 2: attendant list

បញ្ជីអ្នកចូលរួមគ្នា: គម្រោងអភិវឌ្ឍន៍សេដ្ឋកិច្ចក្រុងរៀងរាល់គ្នា

GMS: Southern Economic Corridor Towns Development Project

កម្មវិធី ២៩៨៣-CAM (SF) កម្មវិធី ៨២៦៥-CAM (SCF)

ជំនួយឥតសំណង ០៣៣៤-CAM (UEIF) ជំនួយឥតសំណង ០៣៣៥-CAM (SCF)

បញ្ជីអ្នកចូលរួម

Attendant List

វគ្គបណ្តុះបណ្តាលស្តីពីផែនការ សកម្មភាពយើង

Training on Gender Action Plan

ថ្ងៃទី ១៣ ខែ កញ្ញា ឆ្នាំ ២០២១

ទីកន្លែង: ភោជនីយដ្ឋាន ភោជនីយដ្ឋាន

ល.រ No	នាមនិងគោត្តនាម Name	ភេទ Sex	តួនាទី Occupation	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
១	ឈ្មោះ គុណ	ប.	បេក្ខជន	០៨៨.២២២ ៦៧៣	
២	ឈ្មោះ គុណ	ប.	PIU	០៩២ ៨០០៦១៤០	
៣	ឈ្មោះ គុណ	ប.	PIU	០៩៧៧៥៧៧៧១	
៤	ឈ្មោះ គុណ	ប.	បេក្ខជន	០៦៩៤០១២៨៨	
៥	ឈ្មោះ គុណ	ប.	បេក្ខជន	០៩៣៤២៧១១២	



ល.រ No	នាមនិងគោត្តនាម Name	ភេទ Sex	តួនាទី Occupation	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
៦	គឹម សោភ័	បុរស	គ្រូបង្រៀន	06637555	
៧	គ្រីស្ទី ត្រីស័ន	ប្រុស	សហគមន៍	015.2838.57	
៨	ឃុន រតនា	ប្រុស	-/-	070944095	
៩	វិសាល ធីតា	ប្រុស	គ. បណ្ឌិត	096 7256119	
១០	ហ៊ុន គន្ធា	ស្រី	គ្រូបង្រៀន	012 802551	
១១	ស៊ុន ស័ក ឈាន	បុរស	គ. (គណៈប្រតិភូ)	012916545	
១២	សោភ័ណ វណ្ណ វណ្ណ	បុរស	PMU	012451545	
១៣	សោភ័ណ វណ្ណ វណ្ណ	បុរស	PMU		
១៤	សោភ័ណ វណ្ណ	បុរស	អ្នកប្រឹក្សា	01178 7377	
១៥					
១៦					
១៧					



Annex 3: Photos

