



LAO PEOPLE'S DEMOCRATIC REPUBLIC
PEACE INDEPENDENCE DEMOCRACY UNITY PROSPERITY



SOUTH EAST ASIA DISASTER RISK MANAGEMENT (SEA DRM) PROJECT FOR LAO PDR
(Project ID No: P160930)

COMPONENT 1: INTEGRATED URBAN FLOOD RISK MANAGEMENT

3rd Environmental and Social Monitoring Report (ESMR)

(01 January to 30 September 2023)

(Volume 1 Main Report)

Prepared by:

The Ministry of Public Works and Transport (MPWT) through the Project Management Unit (PMU) of the Department of Waterways (DOW) and the Environment and Disaster Prevention Division (EDPD) of the Public Works and Transport Institute (PTI)

Vientiane, 22 February 2024

ABBREVIATIONS AND ACRONYMS

AH	Affected Household
AF	Additional Financing
ARAP	Abbreviated Resettlement Action Plan
AWPB	Annual Workplan and Budget
BD/CD	Bidding document/Contract document
BKX	Bolikhamxay province
C-ESMP	Contractor-Environmental and Social Management Plan
COC/SCOC	Code of Conduct (social)
COI	Corridor of Impact
CSC	Construction supervision consultant
DONRE	District of Natural Resource and Environment
DMH	Department of Meteorology and Hydrology
DOW	Department of Waterways
D/D	Detailed Design
DPWT	Department of Public Works and Transport
ECOP	Environmental Codes of Practices
EDPD	Environment and Disaster Prevention Division
EMP	Environmental Management Plan
ESMF	Environmental and Social Management Framework
EGEF	Ethnic Group Engagement Framework
EGEP	Ethnic Group Engagement Plan
EHS	Environment, Social, Health, and Safety
ESMR	Environmental and Social Monitoring Report
E&S	Environment and social
ESMP	Environmental and Social Management Plan
ESIA	Environmental and Social Impact Assessment
ECC	Environmental Compliance Certificate
EG	Ethnic Group
EGEF	Ethnic Group Engagement Framework
ESHS	Environmental and Social Health and Safety
ESMF	Environmental and Social Management Framework
GBV	Gender-Based Violence
GIS	Geographical Information System
GoL	Government of Lao PDR
GRM	Grievance Redress Mechanism
HVCA	Hazard Vulnerability and Capacity Assessment

ICOMOS	International Council on Monuments and Sites
ICT	Information and Communications Technologies
IDA	International Development Association
IDM	International Development Management
IEE	Initial Environmental Examination
ISAN	ISAN Corporation
GBV	Gender Based Violence
GOL	Government of Lao PDR
GRM	Grievance Redress Mechanism
LDRM-AF	Lao Disaster Risk Management Additional Financing
LFND	Lao Front for National Development
Lao-SEADRM	Lao-PDR Southeast Asia Disaster Risk Management
LA/LC	Local Authorities/Local Community
LPB	Luang Prabang province
LPB-WHCZ	Luang Prabang-World Heritage City Zone
LPB-WHO	Luang Prabang-World Heritage Office
LTEC	Lao Transport Engineering Consultant
LAPRAP	Land Acquisition Plan & Resettlement Action Plan
Lao PDR	Lao People's Democratic Republic
LWU	Lao Women's Union
MAF	Ministry of Agriculture and Forestry
M&E	Monitoring and Evaluation
MICT	Ministry of Information, Communication, and Tourism
MLSW	Ministry of Labor and Social Welfares
MONRE	Ministry of Natural Resources and Environment
MOF	Ministry of Finance
MPF	Ministry of Finance
MPI	Ministry of Planning and Investment
MPWT	Ministry of Public Works and Transport
NRA	National Regulatory Authority
NSC	National safeguard consultant
O&M	Operation and Maintenance
OP	Operational Policies
O-ESMP	Operation-ESMP
ODX	Oudomxay Province
PAH	Project Affected Households
PAP	Project Affected People

PDO	Project Development Objective
PIU	Project Implementation Unit
PMU	Project Management Unit
PM2.5	Small particulate matter less than 2.5 micron
PRC	Provincial Resettlement Committee
PONRE	Provincial Natural Resources and Environment
PTI	Public Works and Transport Institute
RoW	Right of Way
RAP	Resettlement Action Plan
RPF	Resettlement Policy Framework
RSS	Regional Safeguards Secretariat
SEA/SH	Sexual Exploitation and Abuse/Sexual Harassment
SC	Sub-component
SDS	Social Development Specialist
SIA	Social Impact Assessment
SMMP	Social Management and Monitoring Plan
SMWG	Safeguard Monitoring Working Group
TA	Technical assistance
ToR	Terms of Reference
UDAA	Urban Development and Administration Authority
UN	United Nation
UNESCO	United Nations Educational, Scientific and Cultural Organization
USAID	United States Agency for International Development
UXO	Unexploded Ordnance
VAC	Violence Against Children
VAWG	Violence against Women and Girls
WB	World Bank
WBG	World Bank Group

Table of Contents

Abbreviations and Acronyms.....	2
EXECUTIVE SUMMARY	7
CHAPTER 1 INTRODUCTION.....	13
1.1 Objective and Scope of the Report.....	13
1.2 Project Background and Scope of Component 1	14
Safeguard requirements for Component 1.	14
Chapter 2 OuDomXay (ODX) SUBPROJECT	16
2.1 Introduction	16
2.2 Civil Works Progress.....	18
2.2a Lot-1 Civil Works Progress.....	18
2.2b Lot 2 Civil Work Progress.....	20
2.3 Implementation of RAP, EGEP, and ESMP	22
2.3a Implementation of RAP, EGEP, and ESMP for Lot 01	22
2.3b E&S Progress of RAP, EGEP, and ESMP for ODX (Lot 2).....	23
2.4 ESMP Implementation Progress during Construction (C-ESMP for Lot 2).....	23
2.5 C-ESMP Compliance Monitoring.....	24
2.6. Capacity Building and Community Consultation and Outreach.....	28
2.7 Grievance Redress Mechanism (GRM).....	30
2.8 Accident/Incident Reporting	32
2.9 Compliance Monitoring with ECC Requirements	36
Chapter 3. Luang Prabang (LPB) SubProject.....	37
3.1 Introduction	38
3.2 Civil Work Progress.....	38
3.3 Implementation of Abbreviated Resettlement Action Plan (ARAP)	39
3.4 Implementation of Environment and Social Monitoring Plan (ESMP).....	40
3.5 C-ESMP Compliance Monitoring.....	40
3.6 Capacity Building and Community Consultation/Outreach.....	41
3.7 Grievance Redress Mechanism (GRM).....	42
3.8 ECC Compliance Monitoring	42
CHAPTER 4. Bolikhamxay (BKX) Sub-Project.....	43
4.1 Introduction	43
4.2 Civil Work Progress.....	44
4.3 Implementation of Abbreviated Resettlement Action Plan (ARAP)	45
4.4 Implementation of Environment and Social Monitoring Plan (ESMP) for BKX	46
4.5 C-ESMP Compliance Monitoring.....	46
4.6 Capacity Building and Community Consultation/Outreach.....	48
4.7 Grievance Redress Mechanism (GRM) Monitoring	50
CHAPTER 5. IMPLEMENTATION PROGRESS FOR COMPONENTS 1.2 AND 1.3.....	52
5.1 Introduction	52
5.2 TA on wetland restoration in LPB (\$350,00, AF/C03).....	52
5.3 Study on Flood Risk Assessment (\$2,000,000, AF /C04).....	53
5.4 TA for water ways infrastructure management system (WIMS), Software, Training, Fieldworks (\$200,000, AF/C06).....	54
5.5 Safeguard Activities for Component 1.3	54
5.6 O-ESMP implementation, LA/LC engagement and capacity building of DPWT	54
CHAPTER 6. Next Steps	55
For ODX subproject	55
For LPB subproject	55

For BKX subproject.....	56
Annexes (Volume 2)	61
Table 2.1 Scope of Work to address flooding in Muang Xay	16
Table 2.2 List of Lot 1 Completed Works and Facilities	19
Table 2.3 Lot-2 Construction Sites and facilities.....	20
Table 2.4 List of Monitoring Topics.....	24
Table 2.5 Overview of Lot-2 C-ESMP Compliance from January to June 2023 (<i>Note: Green: fully compliance; orange: partially compliance; red: issues for corrective action; x: not applicable</i>)	25
Table 2.6 Accumulated number of the NCA and PC of Lot-2	27
Table 2.7 List of Training.....	28
Table 2.8 List of Consultation with the Local Communities.....	29
Table 2.9 List of complaints from Affected Households.....	31
Table 2.10 Corrective Actions to be implemented and monitored.....	33
Table 3.1 List of Training.....	41
Table 3.2 List of Consultation with the Local Communities.....	42
Table 4.1	43
Table 4.2 Sub-project in BKX Construction Sites and facilities	45
Table 4.3 Overview of the C-ESMP Compliance from January – May 2023	47
Table 4.4 Accumulated number of NCA and PC of BKX subproject (see Remarks)	48
Table 4.5 List of Trainings	49
Table 4.6 List of Consultation with the Local Communities.....	50
Table 4.7 List of complain from Affected Household	50
Table 6.1: Key safeguard activities to be conducted during the next 6-months (October 2023 to March 2024).....	56
Figure 1-1 Project Location for Lot 1	17
Figure 1-2 Project Location for Lot 2	17
Figure 1-3 General Plan for the total works (Lot 1 and Lot 2) (US\$12,548,372.62\$)	18

EXECUTIVE SUMMARY

Introduction.

This report is the 3rd Environmental and Social Monitoring Report (ESMR) prepared by the Project Management Unit (PMU) of the Department of Waterways (DOW) of Ministry of Public Works and Transport (MPWT) with assistance from the Public Works and Transport Institute (PTI). The report presents the implementation progress of environmental and social (E&S) activities (safeguard) carried out during the report period (January to September 2023) for the Component 1 activities covering the subprojects being carried out in Oudomxay (ODX), Bolikhamxay (BKX), and Luang Prabang (LPB) provinces, technical assistance (TA), and Component 1 management. The provincial Department of Public Works and Transport (DPWT), as the Project Implementation Unit (PIU), is responsible for providing management and technical support during implementation of Project activities at provincial level. The safeguard requirements and implementation arrangement are briefly provided in the main text.

During the report period, the safeguard implementation progress of ODX, LPB, and BKX subprojects (being implemented under Component 1.1) are briefly summarized respectively in **Sections A, B, and C** while more details are provided respectively in Chapters 2, 3, and 4, in the main text and also in Annexes 1, 2, 3, and 4. **Section D** presents the implementation progress on the TAs, consultants, and other safeguard related activities being implemented under Components 1.2 and 1.3 while more details are provided in the main text (Chapter 5) and Annexes 5 and 6. **Section E** identifies safeguard activities to be implemented during the next 6 months (October 2023 to March 2024) taking into account the need to ensure safety operation of the subproject activities and mitigation of measures to address issues during operations of the subproject facilities.

A. Safeguard Activities for ODX Subproject

Background. For ODX subproject, construction activities include river works (dike, riverbank-protection, and excavation on the river bed and channel widening) in Nam Kor (about 5,163 km) and Nam Mao (about 3,376 km); rehabilitation of existing riverside park (Park 2) and construction of 1 new riverside park (Park 1); construction of small flap gates and improve urban drainage in Mouang Xay area; and construction of a very small movable weir (1m high) downstream of Nam Kor Bridge #4. Implementation of construction works is divided into 2 Lots. During the report period, Lot1 construction has been completed¹ while those for Lot2 are on-going and were temporary stop during July-September 2023 due to heavy rain and high water-level during the rainy season in ODX. 100% inspection of the civil work for Lot1 taking over (temporarily) was conducted on February 10, 2023. The WB approved the ARAP/EGEP for ODX Lot 1 on 25 September 2021, RAP for ODX Lot 2 on 14 October 2022 and the ESMP for ODX covering Lot1 and Lot2) on 31 May 2022.

Construction progress of ODX Lot2. The ODX Lot2 construction planned to begin in late December 2022 and it to be completed by December 2024 (duration of 24 months). However, as of June 30, 2023, the overall construction progress is only 30.8% of the plan and key activities included UXO survey and clearance; survey and design; construction materials testing; installation of office and worker camps; obtaining agreements with the landowners for borrow areas and spoil disposal; and site preparation for riverbank protection and other earthworks. The Contractor (Guangdong No.3 Water Conservancy and Hydro-Electric

¹ The Lot 1 construction started in June 2021 and 100% completed in January 2023. The As-Built Drawings was submitted and final inspection was conducted on February 9, 2023. All construction sites, worker camps, borrow areas, and spoil disposal sites were cleaned up and turned over to the land owners.

Engineering Board Co., Ltd) is working closely with the construction supervision consultant (CSC or ISAN/LTEC) to accelerate the physical works in 2024.

Safeguard activities for ODX Lot1. Safeguard implementation of the Resettlement Action Plan (RAP), the Ethnic Group Engagement Plan (EGEP) were completed in 2021 while those for the Environmental and Social Management Plan (ESMP) implementation are on-going since they are related to mitigation measures for Lot2 activities. During the report period, implementation of the mitigation measures during construction including those under contractor responsibility (C-ESMP) for Lot1 have been completed while those mitigation for operation stage (O-ESMP) have been initiated taking into account the scope of the on-going works being implemented under Lot2. PMU, PTI, and PIU initiated active engagement with local authorities and local communities (LA/LC) to identify activities and/or plans to address issues during operation of the ODX facilities after construction is completed including the need for capacity building of DPWT and local agencies. Priority actions are discussed under the ESMP implementation below.

RAP/EGEP for ODX Lot 2. As of end of September 2023, almost 100% compensation to the project affected household (314 PAHs) has been completed. After receiving the compensation, each family transferred to build a new house in the new location within the Xay district. UXO clearance was completed in January 2023 while PIU and PTI took follow-up actions to secure NRA endorsement for low UXO risk in the right of way (ROW) area as requested by WB. As of end of September 2023, there are 6 remaining families of which 5 will be moved out to their new houses expected to be completed in October 2023) while 1 new PAH (large) who has to be relocated due to serious river bank erosion in 2022 and discussion on the compensation and payment is ongoing. PIU, PTI, contractor, and PTI are working closely on monitoring of the grievance monitoring (GRM) and results are included in the subproject progress report and the ESMR report. On GRM, during the report period, there were six (6) recorded cases with no serious issues and all cases were solved by the PIU.

On C-ESMP implementation, PMU completed mobilization of contractor for Lot 2 and a contract was signed in early 2023 while the C-ESMP was approved on 14 March 2023. However, due to heavy rain and flood during July-September, works activities were limited to site clearance and site preparation including work yard and worker camps. Unfortunately, on June 17, there was a fatal accident on drowning of a boy in the Lot2 construction area (Section R3) while PMU, PTI, CSC, and contractor took actions to investigate the causes in connection with the subproject and also prepared and implemented a plan to strengthen the safety measures including a set of corrective actions to be implemented and monitored throughout the contract. A number of reports have also been prepared and submitted to WB as required for reporting on an accident/incident case. More details are provided in the main text (Sections 2.8) and its related annexes.

Safeguard monitoring/reporting of C-ESMP (ODX). As suggested by the WB, PMU and ISAN agreed to mobilize an experience safeguard specialist to assist ISAN and contractor team to improve safeguard performance including reporting to PMU and PTI. The specialist is on board in late February 2023 and a number of trainings were provided to the contractor and CSC team, and PIU including consultation with local authorities and local communities (LA/LC). As part of the CSC monthly monitoring report, the CSC also established a compliance assessment methodology and applied it during the report period. Specific criteria are established to assign the level of compliance to be fully compliance, partially compliance, or issues that need corrective actions. This approach is being reviewed to improve effectiveness and practicality during monitoring and reporting of safeguard performance on the ground (more details are provided in Section 2.5). If appropriate, PMU and PTI will also apply this approach during monitoring of the LPB and BKX subprojects. The CSC (ISAN) will

continue to conduct supervision and monitoring and improve quality of the safeguard monitoring as agreed with PMU and PTI and/or WB.

Safeguard training and consultation with Local Communities/Outreach (ODX). During January 1 to June 30, 2023, there were seven (07) E&S safeguard trainings conducted with a total of 258 participants wherein 31 are female while five (5) awareness raising activities were conducted in the ten (10) villages with a total of 363 participants (136 are females).

Implementation of O-ESMP (ODX). As construction of the physical works is expected to be fully completed in mid-2025, PMU, PTI, and PIU assisted by the NSC have initiated activities engagement with LA/LC taking into account the need to address safeguard issues during operations of the subproject facilities in the target areas. Key activities include (a) practical measures to ensure safety operations of the small movable weir; (b) solid and liquid wastes management in the subproject area (riverside parks and Nam Mao-Nam Kor Rivers); and (c) ensuring safety of the subproject structure including monitoring of the river bank profile (upstream and downstream of the physical structure) and/or rehabilitation of spoil disposal areas that are subject to river bank erosion and/or generation of dust/PM2.5 and other impacts due to climate change.

B. Safeguard Activities for LPB Subproject

Background and works progress (LPB). PMU completed mobilization of the contractor (China Jiengxi etc.) and the contract was signed on January 13, 2023 and expected to be completed in mid-2025. PMU also completed mobilization of the CSC (CEGIS) for LPB subproject (and BKX subproject) and the contract was signed on January 26, 2023. Site preparation and clearance began before raining season (during July-September) and full construction is expected in October-November 2023.

ARAP/EGEP implementation (LPB). As of end September 2023, the compensation payments to the affected households (59 PAHs) were 100% completed while GRM has been monitored by PTI, PIU, and contractor. There were no outstanding project-associated complaints and social issues since the civil work has not start fully yet. During the report period, a number of consultation meetings were conducted to address some concerns expressed by the local residents on the potential impacts during construction. PMU, PIU, the LPB-World Heritage Office, and the WB team also conducted a number of meetings to discuss the approach and detailed design issues raised by UNESCO and an agreement to move the activities forward has been obtained in September. PMU is working closely with the CSC and Contractor to adjust the details on the tree cutting and maintenance in the river side park and ways to apply soft structure to address river bank erosion issues.

On C-ESMP implementation (LPB). PMU assisted by ISAN/LTEC submitted the ESMP for LPB subproject to WB in late 2022. Given that the subproject area is located in the LPB-World Heritage City Zone, significant time was required during the report period to discuss and agree on the construction approach and detailed design of the proposed works raised by UNESCO as well as ways to minimize impacts due to transportation of the construction materials and safety aspect of the subproject activities. The WB clearance was provided in March 2023 and follow-up activities will be closely implemented during the next 6 months (Oct 2023 -March 2024).

In late September 2023, the contractor submitted the revised draft C-ESMP to PMU and the draft is being reviewed by WB. It is expected that C-ESMP approval will be completed in January 2024. Nonetheless, during January 2023, the contractor completed the UXO clearance (Subcontractor to LCY Co. Ltd.) and the NRA clearance certificate was issued. On

February 28, 2023, the ECC was issued by MONRE. Further, during the report period, there were two (2) E&S safeguard trainings conducted by PTI with a total of 70 participants wherein 17 are female. There were also meetings among PMU, PTI, local authorities, contractor, and CSC on locations of borrow pits, quarries, disposal sites, and identification of the construction material routes. The CSC (CEGIS) will continue to conduct supervision and monitoring and improve quality of the safeguard monitoring as agreed with PMU and PTI and/or WB.

Implementation of O-ESMP and capacity building of DPWT (LPB). As construction of the physical works is expected to be fully completed in mid2025, PMU, PTI, and PIU assisted by the NSC initiated activities engagement with LA/LC taking into account issues during operations of the subproject facilities in the subproject area. Key activities include (a) practical measures to ensure safety operations of the small movable weir, (b) solid and liquid wastes management in the subproject area, and (c) ensuring safety of the subproject structure including monitoring of the river bank profile (upstream and downstream of the physical structure) and/or rehabilitation of spoil disposal areas that are subject to river bank erosion and/or other impacts due to climate change.

C. Safeguard Activities for BKX Subproject

Works progress (BKX). Similar to LPB, works progress for BKX subproject remain limited to preparation activities and site clearance. Mobilization of contractor (Yunnan Construction Investment 3rd Construction Co. Ltd.) and the CSC (CEGIS) were completed and contracts signed in early 2023. Per the construction schedule, works of BKX subproject started in February 2023 and will be completed by May 2025 with a duration of 27 months. During February to September 2023, the overall construction progress was about 13.08% including UXO survey and clearance, survey and design, installation of office and worker camps, and obtaining of agreements with the landowners for borrow areas and spoil disposal, riverbank protection, and earthworks. Works has been temporary stopped during July-September 2023 due to rainy season and construction will be resumed in October 2023.

ARAP activities (BKX), the compensation payments to the affected households (20 PAHs) were 100% completed and a GRM has been monitored by PTI, PIU, and contractor. During the report period, PTI organized a kick-off meeting on safeguard with the PIU and the contractor. There were no outstanding project-associated complaints and social issues since the civil works was limited to site clearance and other preparation while the Mekong River level was too high, especially during June to September. It is expected that works activities will be active after the rainy season is over (expected to start in October 2023).

On C-ESMP implementation (BKX). Based on the ESMP for BKX subproject approved by WB on 23 November 2022, PMU approved the C-ESMP in March 2023. However, due to high water level in the Mekong River, construction works was limited during the report period. However, the works yard and worker camp have been established at Site 1 Ban Anousonxay located on the Mekong River (upstream of Nam Sun-Mekong confluence) and it will also be used during construction of Site 2 located downstream of the Nam Sun-Mekong confluence. CSC also monitors the safeguard implementation progress and submit a monthly progress report. Based on discussion with WB safeguard team, efforts are being made to improve quality of safeguard warning signs at the borrow pits and along the transportation roads as well as the construction area in the Mekong River including quality of the safeguard monitoring report to PMU/PTI. PTI also provides training to CSC and PIU, and SMWG during their effort to conduct 6-month monitoring. The CSC (CEGIS) will continue to conduct supervision and monitoring and improve quality of the safeguard monitoring as agreed with PMU and PTI and/or WB.

Implementation of O-ESMP and capacity building of DPWT (BKX). As construction of the physical works is expected to be fully completed in mid-2025, PMU, PTI, and PIU assisted by the NSC initiated activities engagement with LA/LC taking into account issues during operations of the subproject facilities in the subproject area. Key activities include (a) practical measures to ensure safety operations of the small movable weir, (b) solid and liquid wastes management in the subproject area, and (c) ensuring safety of the subproject structure including monitoring of the river bank profile (upstream and downstream of the physical structure) and/or rehabilitation of spoil disposal areas that are subject to river bank erosion and/or other impacts due to climate change.

D. Safeguard Activities for Technical Assistance (TA) and Component Management

Under the AF, through Component 1.2, there are 3 TA activities being implemented under Component 1.2 (Integrated Urban Flood Risk Management). The TAs aim to complete (a) a study on flood risk management for Vientiane Capital (VTE) and Pakxan City in BKX, (b) a study on the wetland management and restoration in LPB, and (c) a study on infrastructure system and data collection (by DOW) the current basic asset inventory to an asset management system.

During the report period, significant progress has been made on the final TORs for (a) and (b) and safeguard consideration have been incorporated into the TORs (see details in Annex 5A and 5B). TOR for (c) are under preparation and safeguard consideration will be incorporated and it will be discussed with WB in early 2024. Details are provided in Chapter 5 and annex 5.

Under Component 1.3, PMU provides support for the TA costs for CSCs for the ODX, LPB, and BKX subprojects, including safeguard supervision, monitoring, and reporting by the CSC. PMU also support the TA for input of the NSC, PTI, and PIU/SMWG costs for safeguard capacity building, training, monitoring, consultation, and implementation of safeguard activities. It is expected that in 2024-2025, additional cost for implementation of safeguard activities to implement O-ESMP of the facilities will be important and details will be discussed with WB during the next mission.

E. Next Steps

In line with the WB aide memoire in July 2023 and the mission conducted in October 2023, priority for safeguard activities to be conducted during the next 6 months (October 2023 to March 2024) are presented in Table 6-1 taking into account the urgent needs to (a) strengthen safety measures during construction and transportation of construction materials including road/waterways safety for all the subprojects and (b) implementation of the measure to mitigate negative impacts during operations of Project facilities (per the O-ESMPs) and active engagement and capacity building of LA/LC. PMU, PTI, and the NSC are working on the annual workplan and budget for year 2024 to 2025 to ensure that the Project activities are implemented safely, effectively, and timely including submission of a quality ESMR report every six months. The safeguard activities and AWPB will be discussed with WB in early 2024/next mission and it can be adjusted as agreed with WB.

Based on the safeguard implementation experience, the priority for safeguard activities will be, but not limited to, the following (a) Completion of the agreed actions and other safeguard activities identified during the WB mission in October 2023; (b) Approval of the C-ESMP amendment for ODX (Lot2) taking into account WB comments on safety measures for the new borrow pit, including completing consultation with LA/LC on safety (construction sites, roads, and waterways) and other safeguard aspects; (c) Effective and timely monitoring of the C-ESMP implementation, especially those related to the safety of the subproject sites; and (d) Deepening and accelerating the implementation of O-ESMP activities, especially those related

to (i) safe operations of subproject facilities, (ii) the riverbank erosion and monitoring of riverbank profile, (iii) measures to address waste issues and possible impacts on dust generation and other response to climate change. More details are provided in Chapters 5 and 6.

CHAPTER 1 INTRODUCTION

1.1 Objective and Scope of the Report

This report is the 3rd Environmental and Social Monitoring Report (ESMR) for Component 1 of the Lao-PDR South East Asia Disaster Risk Management (Lao-SEADRM or the Project). It was prepared by the Project Management Unit (PMU) of the Department of Waterways (DOW) and the Environment and Disaster Prevention Division (EDPD) of the Public Works and Transport Institute (PTI) of the Ministry of Public Works and Transport (MPWT) with assistance from the National Safeguard Consultant (NSC). The report was submitted to the World Bank (WB)² on November 30, 2023 and with comments from the WB the final report is resubmitted to WB in January 2024. The report presents the implementation progress of safeguard activities aiming to mitigate negative impacts of the subprojects and other Project activities that are being implemented with WB financing during 01 January to 30 September 2023. The report will be disclosed in the MPWT website after WB approval.

The report aims to provide information on the safeguard implementation progress and monitoring performance of the activities being implemented under Component 1 of the Project during the reporting period. Section 1.2 provides a brief background on the Project and the safeguard requirements for Component 1 while more information is provided in the previous ESMRs. Chapters 2, 3, and 4 provides key information on the safeguard implementation progress of the sub-projects being implemented in Oudomxay (ODX), Louang Phabang (LPB), and Bolikhamxay (BLX) provinces, respectively. Each chapter provides information on (1) Construction works progress; (2) Implementation progress on Resettlement Action Plan (RAP) and Ethnic Group Engagement Plan (EGEP); (3) Environmental and Social Management Plan (ESMP) during construction and compliance monitoring (C-ESMP); (4) Capacity building, community consultation/relations and awareness raising; (5) Grievance Redress Mechanism (GRM) monitoring. For ODX, one section is provided on safeguard activities related to the fatal incident occurred in June 2023 including the safeguard corrective actions to be monitored. Chapter 5 presents scope and progress of the activities and TA conducted under Component 1.2 while Chapter 6 presents next steps for Component 1 activities to be implemented during the next reporting period (October 2023 to March 2024 before the next mission (planned for April 2024).

It is noted that in addition to the safeguard monitoring activities related to RAP, EGEP, and C-ESMP implementation of the ODX, LPB, and BKK subprojects, PMU, PTI, PIU, and the NSC have taken actions to address safeguard issues during operations (O-ESMP) identified in the subproject ESMPs approved by WB for the subprojects. The activities are conducted as part of the safeguard training and capacity building of the provincial authorities through the Safeguard Monitoring Working Group (SMWG) and strengthening active engagement with the local authorities and local communities (LA/LC). For ODX, the activities include those necessary to address safety risk to downstream water users during operations of the small movable weir, the preparation of local community management plan on solid and liquid wastes, and the needs for monitoring the river bank erosion using appropriate non-structural approach including rehabilitation of the final spoil disposal sites to reduce generation of dust and PM2.5. For BKK, efforts are being made to establish the river bank profiles upstream and downstream of the Project sites located along the Mekong River. For LPB, actions are also undertaken to address issues raised by some residents, UNESCO, and the WB including setting up baseline condition on the profile of the river bank upstream and downstream of the Project structures in Nam Khan River and the Mekong River.

² The first ESMR was submitted in 2021 covering Component 1 activities starting from effectiveness to June 2021 while the second ESMR covers July 2021 to December 2022.

1.2 Project Background and Scope of Component 1

The Project comprising four (4) components and it was effective in 2017³. Component 1 is being implemented by DOW of MPWT while Components 2, 3, and 4 are being implemented respectively by the Department of Meteorological and Hydrology (DMH) of Ministry of Natural Resources and Environment (MONRE), Ministry of Finance (MOF), and Ministry of Planning and Investment (MPI). Component 1 aims to address issue related to flood management in priority areas while the structural measures are implemented under Component 1.1 and the non-structural measures and technical assistance are implemented under Component 1.2. In 2018, Lao PDR experienced widespread flooding which significantly impacted the people and the economy. To help addressing the financing gap and augment the response efforts, an Additional Financing (AF) with a budget of about \$25 million have been allocated for Component 1 to implement similar activities in two (2) additional provinces in Luang Prabang (LPB) and Bolikhamxay (BKX), and the AF was signed on January 28, 2020 and became effective on March 20, 2020.

Activities under Component 1.1 (*Integrated Urban Flood Risk Management*, \$33.6M) are being implemented to support the climate-resilient construction and rehabilitation of flood protection infrastructure, including those damaged by the 2018 floods. The activities are designed to support (i) climate-resilient construction and rehabilitation of flood protection infrastructure, including investments in riverbank protection, embankment improvements, canal improvements, water gates, pumping stations, river-side parks, and improvements of public spaces in ODX, LPB, and BKX provinces. Component 1.2 (*Non-structural Investments*, \$3.2M) comprises (i) a study for Sustainable Urban Design Interventions in Muang Xay (ODX); (ii) a study for flood risk assessment for BKX and Vientiane capital (VTE); (iii) a study on Wetland Management and Restoration in LPB; and (iv) Infrastructure system and data collection by supporting DOW to upgrade the current basic asset inventory to an asset management system.

Safeguard requirements for Component 1. In line with the WB's E&S safeguard policy triggered for the Project⁴, each subproject being implemented under Component 1.1 prepared an ESMP, a RAP or abbreviated RAP, and/or an EGEP⁵ as agreed with the WB. These documents have been approved by WB while RAPs have been updated in agreement with the WB. In addition, these subprojects also received government approval (per EIA regulation) through the issuance of an Environmental Compliance Certificate (ECC) by the Ministry of Natural Resources and Environment (MONRE) or the Provincial Office of Natural Resources and Environment (PONRE)⁶.

For each subproject, the ESMP identified key safeguard issues and measures to mitigate potential negative impacts during construction stage and operational stage including engagement with local authorities and local communities (LA/LC). To mitigate the impacts

³ The Component 1 is implemented by DOW of MPWT while Component 2 is implemented by Department of Meteorology and Hydrology (DMH) of MONRE, Component 3 by Ministry of Finance, and Component 4 by Ministry of Planning and Investment (MPI)

⁴ Six safeguard policies applicable to the Project are OP/BP 4.01 (Environmental Assessment), OP/BP 4.04 (Natural habitats), OP/BP 4.12 (Resettlement policy), OP/BP 4.10 (Indigenous Peoples), and OP/BP Dam safety, and OP/BP 7.10 (International water ways). The Project is classified as EA category B according to WB criteria.

⁵ The ESMP, RAP, and EGEP were prepared in line with the Environment and Social Management Framework (ESMF), Resettlement Policy Framework (RPF), and Ethnic Groups Engagement Framework (RAF/EGEF) approved for the project additional financing in 2019.

⁶ The ECCs for ODX and LPB were issued by MONRE based on the ESIA reports prepared while the ECC for BKX was issued by PONRE of BKX.

during construction, the sub-project ESMP requires preparation of a contractor ESMP (C-ESMP) to be approved by PMU before construction while the Construction Supervision Consultant (CSC) will also be responsible for supervision and monitoring of safeguard performance on daily basis including compliance of the C-ESMP. The CSC is also required to submit a monthly progress report (and quarterly progress report) to PMU with a copy to PTI.

The province is also required to establish a Safeguard Monitoring Working Group (SMWG) and a grievance redress mechanism (GRM) for the sub-project to ensure compliance with the Government of Lao PDR (GOL) regulations and mitigation of potential adverse impacts during Project implementation. For implementation of RAP and EGEP, the province is also required to establish a Project Resettlement Committee (PRC) while PTI will provide technical support.

During the reporting period (January-September 2023), the construction of Lot 1 in ODX has been completed while those for ODX Lot 2, BKX, and LPB focusing on site clearance and other preparation works/activities taking into account the early and heavy rain and highwater level during July-September. It is expected that all construction works will be completed by mid-2025.

CHAPTER 2 OUDOMXAY (ODX) SUBPROJECT**2.1 Introduction**

The ODX sub-project is part of Component 1.1 which has been designed to reduce the impacts of flooding in Muang Xay of Oudomxay (ODX) province and enhance capacity of the Government of Lao PDR (GOL) to provide hydro-meteorological services and disaster response. The ODX sub-project area covers the Nam Kor and Nam Mao Rivers in Xay district which is normally subject to large annual flooding (see Figure 1-1). The construction works is divided in 2 lots (Lot 1 and Lot 2) and scope of the activities are identified in Tables 2-1 and 2-2 while locations are presented in Figure 2-1, Figure 2-2, and Figure 2-3.

Table 2.1 Scope of Work to address flooding in Muang Xay

Scope of Works	COI (Corridor of Impact)	Budget (USD)
<p><u>Lot 1 consists of 5 works as follows:</u></p> <p>i) River works: Dike, Riverbank-protection, - Nam Kor River: L=1.3km, right side (calculated along the centreline of the river channel)</p> <p>ii) Riverside Park (1 Area): Rehabilitation and upgrading of Park 2</p> <p>iii) Riverside Road (L=950m): Road improvement near the Riverside Park 2</p> <p>iv) Nam Kor Movable Weir (1 weir): Located in Nam Kor downstream of the Riverside Park 2</p> <p>v) Drainage and Flap Gate (1 gate): Construction of one small flap gate to improve effectiveness of urban drainage.</p>	Ranging from 1m to 150 m identified from the river bank alignments. Lot 1 work occur in one (1) village Ban. Jeng	3,729,908
<p><u>Lot 2 consists of 4 works as follows:</u></p> <p>i) River works: Dike, riverbank-protection, and excavation on the river bed and channel widening: - Nam Mao River (upstream): Right side =3.38km (from the Nam Mao Bridge to the Three Rivers Junction) - Nam Kor River (upstream): Left side=3.46km (from the Nam Kor bridge 5 upstream to Nam Kor bridge 4 downstream) - Nam Kor River: L=1.64 km, Right side (from the Three Rivers Junction ~ Nam Kor bridge 2)</p> <p>ii) Riverside Park 1 (1.3ha): Construction of new River Park 1</p> <p>iii) Drainage and Flap Gate (16 gates): Construction of 16 small flap gates to improve effectiveness of urban drainage.</p>	Ranging from 1m to 150 m identified from the river bank alignments. Lot 2 work occur in 10 villages including B. Nasao, B. Namy, B. Nalao, B. Navannoy B. Thin, B. Vanghai, B. Pasak, B. Montai, B. Longkordeau and B. Jeng.	8,818,465
<u>Total</u>		12,548,373



Figure 2-1 Project Location for Lot 1

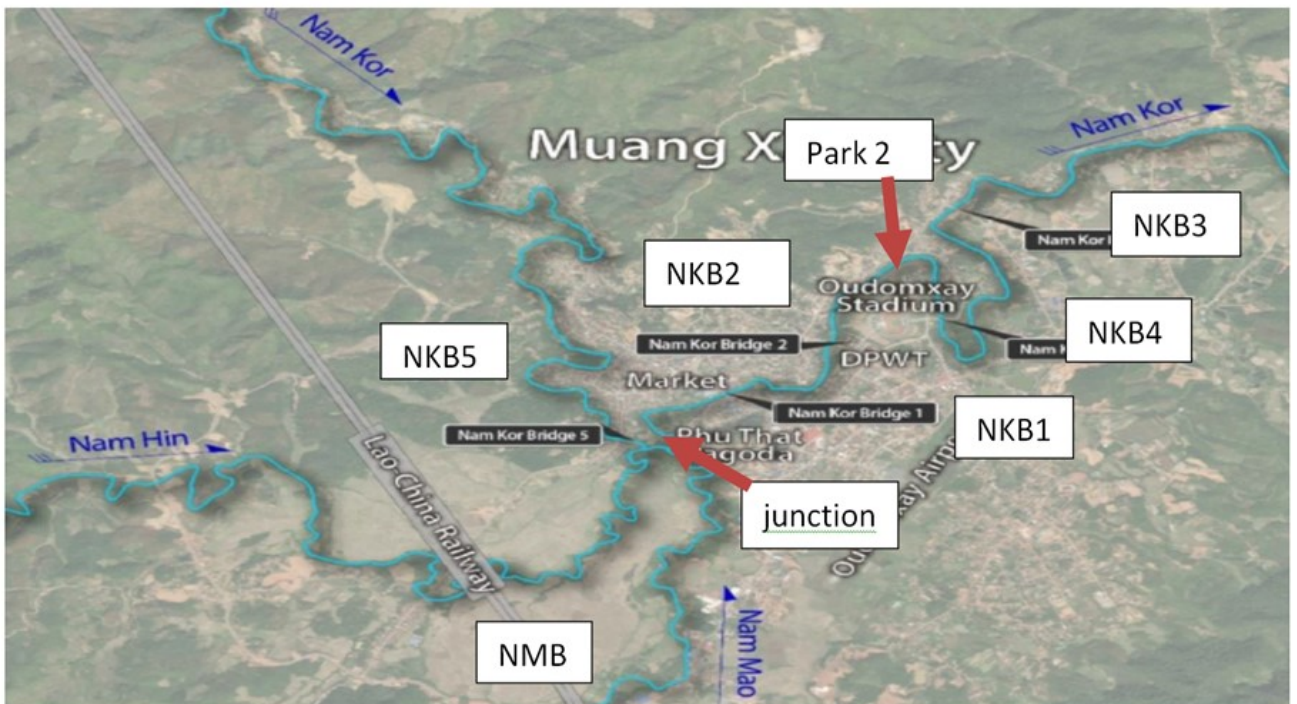


Figure 2-2 Project Location for Lot 2

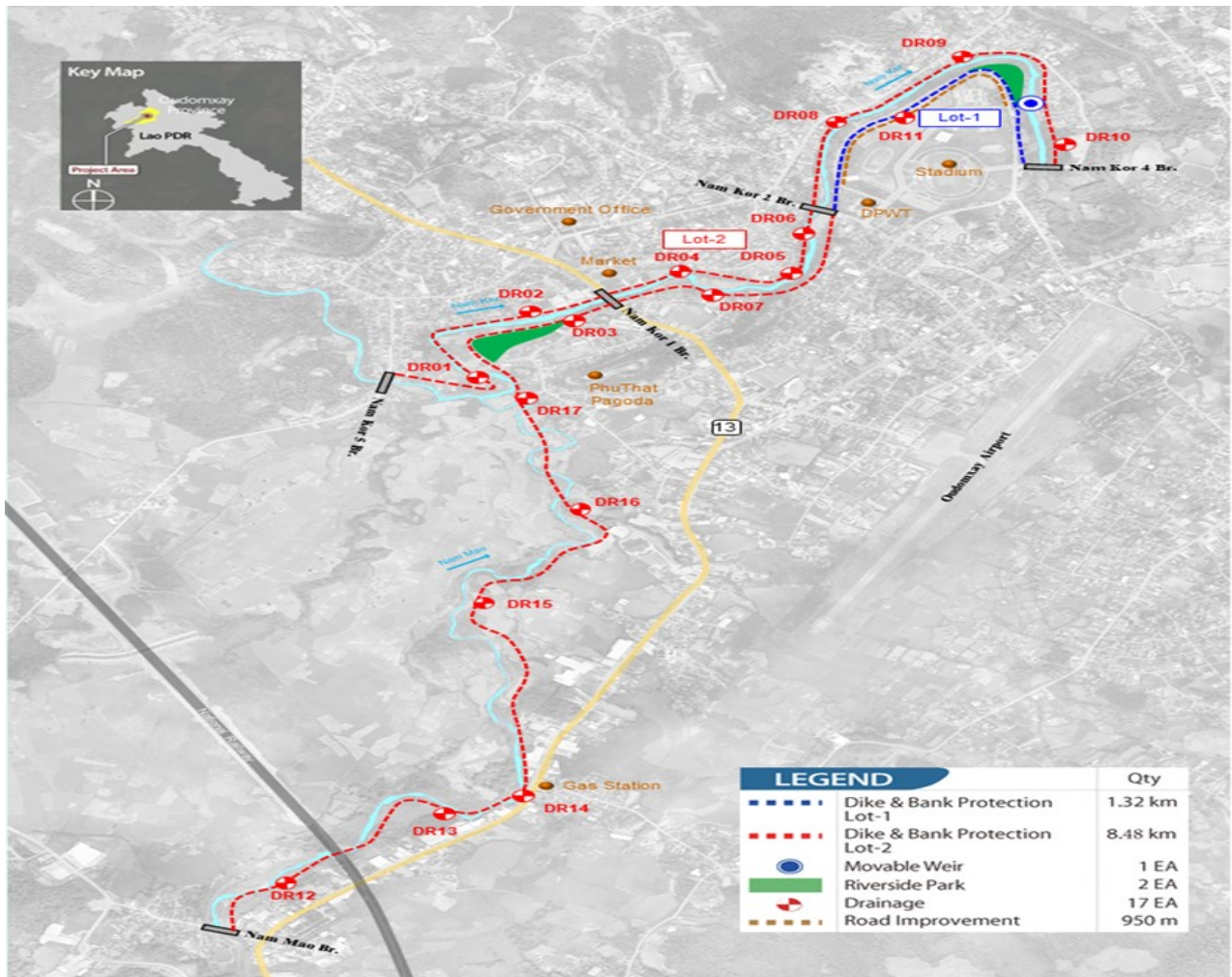


Figure 2-3 General Plan for the total works (Lot 1 and Lot 2) (US\$12,548,372.62\$)

2.2 Civil Works Progress

2.2a Lot-1 Civil Works Progress

The construction of the Lot-1 (started in June 2021) is 100% completed in January 2023. The As-Built Drawings was submitted and final inspection was conducted on February 9, 2023. Table 2-1 summarizes the subproject activities related to safeguards. All construction sites, worker camps, borrow areas, and spoil disposal sites were cleaned up and turned over to the land owners. However, there are pending safeguard related issues to be addressed by all parties (PMU, PIU, CSC and contractor) including:

- Clean up all wastes including the contaminated soil, fencing, and proper storage of the materials and keep the building clean and tidy at the worker’s camps. Contractor was recommended to complete all clean-up and turn over to the land owner with signed agreement or letter.
- There are remaining construction wastes along the completed river bank protection and in the river. Recommended to the Contractor to complete all clean-up and turn over to the government with signed agreement.

- No waste bins and improper solid waste management at Park 2 and Lot 1 completed sites. No signs indicating good handling of solid wastes, taking care of sites including the sculptures/statues, trees, and grasses as well as caution signs of using the stair. This has been discussed with the PIU and PMU and will be addressed through the implementation of local community engagement plan for green, clean, and beautiful park.

Table 2.2 List of Lot 1 Completed Works and Facilities

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Current Status	Turn over letter to Land Owner
I Construction Site						
1	Dike/Bank-protection: L=1.32 km		1,32km		100% Completed	Handover to PIU
2	Movable Weir: 1		H=1.5m, L=40 m		100% Completed	Handover to PIU
3	Riverside Parks 2 (1 Area):	Km 0+820-0+969	11.800 m ²		100% Completed	Handover to PIU
4	Riverside Road		1+328 km		100% Completed	Handover to PIU
5	Drainage and Flap Gate (1 gate)				100% Completed	Handover to PIU
II Worker's Camps						
1	Camp 1	km0+000	2091 m ²	Private	In-use	Not yet
2	Camp 2	km 1+450	1600 m ²	Private	100% Completed	Yes
III Borrow pit						
1	Viengsa village	km 6	250.000 m ³	Private	100% Completed	Yes
2	Longkordeua village	Km 1+500	25.000 m ³	Private	100% Completed	Yes
IV Deposal Site						
1	Mr. Pangchan (site 1)	km 1+450	16000 m ³	Private	100% Completed	Yes
2	Mr. Phomasock (site 2)	km 1+500	7200 m ³	Private	100% Completed	Yes
3	Mr. Khamsau (site 3)	km 1+700	14400 m ³	Private	100% Completed	Yes
4	Mr. Socksakhone (site 4)	km 1+800	36750 m ³	Private	100% Completed	Yes
5	Mr. air (site 5)	km 1+900	19200 m ³	Private	100% Completed	Yes
6	Mr. Phodthasone (site 6)	km 1+400	600 m ³	Private	100% Completed	Yes

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Current Status	Turn over letter to Land Owner
7	Mr. Kasy(site 7)	km 1+450	18000 m3	Private	100% Completed	Yes
8	Mr. Phod Xaysombad(site 8)	km 2+000	900 m3	Private	100% Completed	Yes
9	Mr. Phetchamphone (site 9)	km 2+500	637.5 m3	Private	100% Completed	Yes
10	Mr.Xayoudom (site 10)	km 1+500	3600 m3	Private	100% Completed	Yes
11	Mr. Khamsouck (site 11)	km 1+000	1008 m3	Private	100% Completed	Yes

2.2b Lot 2 Civil Work Progress

The construction schedule of the Lot 2 started in late December 2022 and will be completed by May 2025 with a duration of 36 months. As of September 30, 2023, the overall construction progress of Lot-2 is 36.89% and activities including UXO survey and clearance, survey and design, construction materials testing, installation of office and worker camps, and obtaining agreements with the landowners for borrow areas and spoil disposal, riverbank protection, and earthwork (see Table 2-2). August to September work focused on strengthening safety and security of the construction sites as a means to mitigate the fatal accident occurred in Nam Mao (see details in Sections 2.5 and 2.8 below).

Table 2.3 Lot-2 Construction Sites and facilities

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Duration of Use		Progress as of June 2023	Agreement with Land Owner
					From	To		
1	Construction Sites							
1	Dike/Bank-protection		L=8.54km		31/12/2022	21/9/2024	29.1%	
	Section number							
	Section R1	0+000-1+000	1000 m		2/3/2023	27/9/2023	6.8%	
	Section R2	1+000-2+500	1500 m		28/10/2023	14/5/2023	3.6%	
	Section R3	2+500-3+500	1000 m		2/3/2023	27/9/2023	6.33%	
	Section R4	3+500-5+022	1522 m		28/10/2023	14/5/2023	3.5%	
	Section L1	0+000-1+000	1000 m		26/3/2023	13/5/2024	7.7%	
	Section L2	1+000-3+517	2517 m		26/3/2023	13/5/2024	0%	
2	Drainage/Gate		21 ea		1/5/2023	21/10/2024	Did not start yet	

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Duration of Use		Progress as of June 2023	Agreement with Land Owner
					From	To		
3	Riverside Park1: 1 ea		(A=13,400 m ²)		1/5/2023	21/10/2024	1.17%	
II	Access Road to Lot 2 Sites							
1	Nasao Village	0+000 L	200 m	GoL	1/1/2023	End Project	In-use	
2	Nasao Village	0+500 R	170 m	GoL	1/1/2023	End Project	In-use	
3	Nalao Village	1+600 R	500 m	GoL	1/1/2023	End Project	In-use	
4	NaWhannoy Village	2+850 R	800 m	GoL	1/1/2023	End Project	In-use	
5	NaWhannoy Village	3+540 R	2500 m	GoL	1/1/2023	End Project	In-use	
6	Jeng Village	4+700 R	470 m	GoL	1/1/2023	End Project	In-use	
7	Jeng Village	4+940 R	400 m	GoL	1/1/2023	End Project	in-use	
8	Thin Village	0+200 L	2500 m	GoL	1/1/2023	End Project	In-use	
III	Worker Camps							
1	Engineer Camp 1	B. Na-Warnoy	4.000 m ²	Private	11/1/2023	End Project	In-use	Yes -
2	Worker Camp 2						in-use	Yes
IV	Borrow Pits							
1	Mr. Thongsouk	Km 0+700	20.000 m ³	Private	31/12/2022	End Project	Not use	Yes
2	Mr. Bounsy	Km1+500	20.000 m ³	Private	31/12/2022	End Project	Not use	Yes
V	Disposal Area							
1	Mr. Ny	2+800R from site 140 m	8.400	Private	5/2/2023	End Project	In-use Action 100%	Yes
2	State land	3+300R from site 4 m	320.000 m ³	Government	31/12/2022	End Project	In-use Action 70%	Yes
3	Mr. Phoudkeomany	2+650R from site 10 m	2.500	Private	27/3/2023	End Project	Not use	Yes
4	Mr. Chaoang	2+600R from site 55 m	18.000	Private	20/4/2023	End Project	In-use Action 40%	Yes
5	Mr. Khamsaiy	2+600R from site 383 m	13.320	Private	4/5/2023	End Project	In-use Action 20%	Yes
6	Mr. Bounpoun	0+300 L from site 77 m	112.125	Private	2/3/2023	End Project	In-use Action 50%	Yes
7	Mr. Aty	0+600R from site 310 m	12.000	Private	3/4/2023	End Project	In-use Action 35%	Yes

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Duration of Use		Progress as of June 2023	Agreement with Land Owner
					From	To		
8	Mr. Bounthan	0+590R from site 7 m	1.650	Private	23/4/2023	End Project	In-use Action 70%	Yes
9	Mr. Syvai	0+450R from site 140 m	2.835	Private	7/3/2023	End Project	In-use Action 90%	Yes
10	Mr. Somekhit	0+350R from site 10 m	487	Private	4/3/2023	End Project	In-use Action 90%	Yes
11	Mr. Chanpheng	0+050R from site 62 m	700	Private	8/3/2023	End Project	In-use Action 90%	Yes
12	Mr. khamdeng	0+300R from site 5 m	500	Private	5/3/2023	End Project	In-use Action 90%	Yes
13	Mr. ArZhing	2+805R from site 20 m	33.000	Private	5/3/2023	End Project	In-use Action 70%	Yes
14	Mr. Zhang Fasern	2+800R from site 15 m	86.000	Private	5/3/2023	End Project	In-use Action 70%	Yes
15	Ms. Toulakan	2+790R from site 140 m	26.000	Private	3/3/2023	End Project	In-use Action 60%	Yes
16	Ms. Khonsavanh	2+800R from site 92 m	15.750	Private	27/2/2023	End Project	In-use Action 100%	Yes
17	Mr. JangPaosing		46.200	Private	15/2/2023	End Project	Not use.	Yes

2.3 Implementation of RAP, EGEP, and ESMP

2.3a Implementation of RAP, EGEP, and ESMP for Lot 01

RAP/EGEP implementation. The PTI and the NSC monitored the progress in resettlement and livelihood of nine (9) affected households for lot 01 who transferred to build their new houses in other villages. The PTI and the NSC closely work with PIU of ODX, Provincial Resettlement Committee (PRC), the CSC (ISAN/LTEC), and the Contractor in monitoring grievances and redress (GRM), and as of the end of September, no pending issues is observed.

On C-ESMP monitoring, PMU, PTI, and the NSC closely supervise the CSC supervision and monitoring of the C-ESMP implementation and compliance of the contractor through review of the CSC monthly report and field visits to the sub-projects. Given that the civil work in Lot 1 have been completed on January 18, 2023 and 100% inspection in civil work for taking over (Temporally) for Lot 1 on February 10, 2023, the safeguard monitoring is limited to the activities mentioned in Section 2.2a above.

In early 2023, the PTI and the NSC begin to strengthen their efforts on capacity building and community outreach aiming to strengthen measures to address safety of local community and the public during construction and transportation of construction materials as well as initiate

discussion on ways to address issues and measures during operations. On April 28, 2023 the contractor together with the PTI and DOW conducted training on moveable weir operators to DPWT and the SWMG teams with 13 participants. During May 10 to 15, 2023, the provincial and district teams went to set up an emergency warning committee in each village along the downstream from Muang Xay to La district including Ban Nongmengda, Ban Donkeo, Ban Viensa, Ban Bor, Ban Fan, Ban Mai, Ban Kat, Ban Houaysang, Ban Pounghieng, Ban Longya and Ban Phonsavang. These committees have the following duties: 1) coordinate with the project implementation office, 2) inform villagers to prepare emergency flooding when the project releases water from the movable weir. To comply with the ESMP to mitigate potential impacts during operation, PTI and the NSC will continue the community outreach and setting up local community team/meetings to address issues on solid/plastic and liquid waste management as well as those related to monitoring of the river bank erosion, safety of water users, and reducing generation of dust and PM2.5 from the final spoil disposal sites.

EGEP implementation and gender training were also conducted during the training on waste management to Women Union and setting up local vocational skill activities.

2.3b E&S Progress of RAP, EGEP, and ESMP for ODX (Lot 2)

RAP/EGEP Implementation. Under Lot 2, RAP identified 319 affected households (PAHs). After receiving the compensation, each family will move out to a new house in the new location within the district of Xay. During January to June 2023, relocation of almost 100% are completed except the 12 families who have not moved out yet because their new houses (bigger than the previous houses) has not been completed. On June 28, 2023, the District and Provincial Resettlement Committees went to monitor the relocation of these 12 families. Each family promised to the District and Provincial Resettlement Committees that during September 10-31, 2023, they will 100% complete the relocation. There is one additional big house to be relocated and compensated. Monitoring with WB mission in early September suggested that all resettlement and compensation for ODX Lot 2 will be completed by end of 2023.

2.4 ESMP Implementation Progress during Construction (C-ESMP for Lot 2)

The Lot 2 contractor prepared and submitted the final draft C-ESMP for Lot 2 to PMU for review and approval and the revised C-ESMP was approved on January 15, 2023. The contractor is responsible for UXO clearance before the construction begin while the CSC (ISAN/LTEC) is responsible for day-to-day supervision and monitoring and submit a monthly progress report to PMU/PTI. In practice, PTI, PMU, and the NSC periodically monitor the implementation of the C-ESMP by the contractor during construction. The contractor mobilizes a few E&S officers responsible for implementation of safeguard measures while the CSC mobilizes 2 safeguard officers responsible for monthly monitoring of contractor safeguard performance. In February 2023, PMU made effort to ensure that ISAN/LTEC mobilizes a national safeguard specialist (Ms. Khamsy) to ensure effective supervision of contractor performance and improve quality of the CSC safeguard monitoring report submitting to PMU/PTI as suggested by WB.

The ISAN safeguard specialist (Ms. Khamsy) is on board in late February 2023 and provided overall and specific training on monitoring of the C-ESMP including setting up an improved monitoring checklist and ways to assess compliance performance and quality of safeguard monitoring report which is submitted to PMU/PTI on a monthly basis (also see some results in Section 2.5).

On performance, overall, review of the CSC monitoring report and observation on the ground suggested that the C-ESMP implementation performance (Lot 2) during the reporting period was considered partially satisfactory and there are some pending issues that required actions and improvement. During July-August, PMU and PTI made a number of site visits, especially during the WB mission, to address the issues and actions related to the fatal incident occurred on June 17, 2023. Review and discussion with the WB suggested that site control safety, community outreach, occupational health and safety (OHS), and traffic management measures are insufficient and need significant improvement. It is noted that the construction site management, fencing of worker camp 2 is not completed yet, and not all transportation material vehicles are covered by plastic sheet, no first aid kits (pain killers, cold, coughs, antibiotics and more), and no bulletin board in the camp to write the daily to-do list.

As part of the WB's process for reporting the accident (see Sections 2.5 and 2.8 below), a number of safeguard corrective actions for ODX Lot 2 have been identified and they will be implemented and monitored closely by CSC, PTI, and PMU.

UXO risks. Contractor conducted the UXO clearance for ODX Lot 2 and received a UXO clearance certificate. However, a follow-up action was conducted per Aide Memoire of the WB mission on March - April 2023 advised PMU to request official documentation from NRA to confirm the low UXO risk in the excluded areas. On June 25, 2023, the NSC and the representative of the UXO clearance contractor company for Lot 2 (LCY) went to meet with Mr. Chomngeang head of the NRA office. After discussion, it was agreed that in the excluded areas of the UXO clearance by LCY company, the NRA will issue official documentation to confirm the low UXO risk of the excluded areas. The NRA letter was issued in late September 2023 (see Annex 2C). It is understood that the delay occurred because the NRA office was undergoing restructuring and will move from the Ministry of Labor and Social Welfare to the Ministry of Foreign Affairs.

2.5 C-ESMP Compliance Monitoring

During the report period, with technical guidance from the new ISAN safeguard specialist (Ms. Khamsy), the CSC conducted monthly joint site compliance monitoring in implementing the C-ESMP with PIU and Contractor for both Lot-1 sites clean-up, preparation and safeguard monitoring work progress of Lot-2 site. Table 2-3 presents a list of monitoring topics which has been established by CSC for assessing safeguard compliance of the C-ESMP. Tables 2-4 to 2-5 provide a sample on the overview of C-ESMP compliance according to the (15) monitoring topic identified in Table 2-3 in April-May 2023. Results of the compliance assessment with the C-ESMP is described as "fully compliance" (FC), "partially compliance" (PC) and "issues need corrective actions" (NCA). This assessment was made before the fatal incident on June 17, 2023 however, it was updated with red mark for item 15 (Accident) for R3 area where the accident occurred.

Based on the implementation experience in 2023, it is anticipated that this assessment approach will be adjusted to improve effectiveness and efficiency of the monitoring program in ODX subproject. This approach will also be applied to monitor the C-ESMP compliance for LPB and BKX subprojects, but with appropriate adjustment.

Table 2.4 List of Monitoring Topics

No.	Topics/issues	Acronyms
1	Documentation and Reporting	D&R
2	E&S Safeguards Team	ESST

No.	Topics/issues	Acronyms
3	Local Authorities and Communities Relations, Consultation and Information Disclosure	LA/LC-CID
4	Worker Camp and Waste Water Management	WC/WWM
5	Labor Management and Occupational, Health and Safety including training for workers	LM-OHS
6	Community Health and Safety: site safety, road safety, noise, dust and SEA/SH	CHS
7	Construction Site Management	CSM
8	Traffic and Access Road Management	TAM
9	Borrow Area and Quarry Management	BQM
10	Disposal Area Management	DAM
11	Erosion Control and Sedimentation	ECS
12	Waste Management and Recycling	WMR
13	Environmental Quality Management	EQM
14	GRM	GRM
15	Accident	A

Table 2.5 Overview of Lot-2 C-ESMP Compliance from January to June 2023 (Note: Green: fully compliance; orange: partially compliance; red: issues for corrective action; x: not applicable)

No.	Site Name	Monitored Topics														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	Construction Sites															
1	Dike/Bank-protection				x					x				x		
	Section R1				x					x				x		
	Section R2				x					x				x		
	Section R3				x					x				x		
	Section R4				x					x				x		
	Section L1				x					x				x		
	Section L2				x					x				x		
2	Drainage/Gate	Construction has not started yet														
3	Riverside Park1: 1 each				x					x	x					
II	Access Road to Lot 2 Sites															
1	Nasao Village				x					x	x	x	x	x		
2	Nasao Village				x					x	x	x	x	x		
3	Nalao Village				x					x	x	x	x	x		
4	NaWhannoy Village				x					x	x	x	x	x		
5	NaWhannoy Village				x					x	x	x	x	x		
6	Jeng Village				x					x	x	x	x	x		
7	Jeng Village				x					x	x	x	x	x		
8	Thin				x					x	x	x	x	x		
III	Worker Camps															
1	Engineer camp															
2	Worker camp 2															

No.	Site Name	Monitored Topics														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IV	Borrow Pits															
1	Mr. Thongsouk	Not in use									x	Not in use		x	Not in use	
2	Mr. Bounsy										x			x		
V	Disposal Area															
1	Mr. Ny				x					x				x		
2	State land				x					x				x		
3	Mr. Phoudkeomany	Not in use														
4	Mr. chaoang				x					x				x		
5	Mr. Khamesai				x					x				x		
6	Mr. Bounpoun				x					x				x		
7	Mr. Aty				x					x				x		
8	Mr. Bounthan				x					x				x		
9	Mr. Syvai				x					x				x		
10	Mr. Somekhit				x					x				x		
11	Mr. Chanpheng				x					x				x		
12	Mr. khamdeng				x					x				x		
13	Mr. ArZhing				x					x				x		
14	Mr.Zhang Fasern				x					x				x		
15	Ms. Toulakan				x					x				x		
16	Ms.Khonsavanh				x					x				x		
17	Mr. JangPaosing	Not in use														

Fully Compliance (FC): Tables 2-3 and 2-4 suggests that the implementation of C-ESMP by the contractor will be assigned when the contractor is responsive to CSC advice and no serious E&S issues including no GRM cases and/or accidents reported during the reporting period. For ODX performance in April-May, the full compliance was assigned based on the following findings:

- Completed preparation and submission of CESMP and obtaining agreement with the land owner for all private lands;
- Completed mobilization of ESS team;
- There are erosion/land slide issue at least at two locations, one close to the bridge and the other one at the house that is partially relocated but the contractor already solved those issues;
- Maintain proper construction waste management at all construction sites;
- Proper management of disposal area;
- The contractor conducted training on road safety, OHS and CHS covering COC on SEA/SH and VAC;
- No child labor recruited by contractor and staffs and workers are managed and treated based on the Laos labor law;
- The camp facilities consist of gravel yard, drainage system, bedrooms, offices, kitchen and eating rooms, drinking water and water supply, toilet, and fire extinguisher;
- Installation of signs indicating male and female toilet, First Aid Kit; information board; translation of company COC on SEA/SH and VAC; sufficient waste bins; and treatment ponds for wastewater from bathing and kitchen;
- Installation of safety, speed limit, and warning signs at the road and access road;
- All construction sites are tidy; no spillage of hazardous materials or waste; no spillage of toxic/hazardous chemicals or water and soil pollution; construction activities are carried out in day time (08:00 to 18:00 on weekdays and 08:00 to 13:00 on Saturday).

Partially compliance (PC): There are some partially compliance including:

- *Worker’s camp management:* muddy yard and fencing is not completed yet. The camp yard was filled and fencing was completed last July 2023;
- Some of the workers did not wear PPE while working. Strict rules (deduct salary/wage) will be applied;
- Some of the transportation trucks of materials are not covered; strict rule (deduct salary/wage of driver) will be applied;
- No sufficient basic medicine provided in the First Aid Box (Painkillers, cold, coughs, antibiotics and more). This has been solved.
- No communication/bulletin board with ESHS information provided in the worker’s camp 2.
- No sufficient site barricades and warning/safety signs. On-going improvement is being done.
- Erosion at some locations caused by the rain. Safety measures have been provided.

Issues Need Corrective Action (NCA): The Accumulated Number of INCA and PSC of Lot-2 are provided in Table 2-5 below.

Table 2.6 Accumulated number of the NCA and PC of Lot-2

Month	Total NCA #	Total PC #	Total # Solved/Closed	Total # Pending Closure
February	8		8	0
March		2	2	0
April		1	1	0
May	7	0	7	0
June	0	7	7	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
Total	15	10	25	0

The PTI and the NSC have requested the contractor to improve their safeguard performance and also requested CSC to closely supervise and monitor the C-ESMP compliance by the contractor as well as improve quality of the CSC monthly progress reports. The PTI and the NSC also provide training to the contractor, the CSC, the field engineers of DPWT, and the SMWG on the C-ESMP preparation and implementation, supervision, and monitoring (see Section 2.7 below).

Fatal accident in June 2023. The incident involving the drowning of an 8-year-old boy at Lot 2 Section R3 (KM3+400 in Nam Mao) on June 17, 2023 was under investigation during July-August 2023. The process follows the World Bank’s Environmental and Social Incident Response Toolkit (ESIRT) and reporting was carried out with support from the WB task team. It is noted that there is no specific regulation to control the use of water in the river. Nonetheless, to prevent any accident to occur during construction of Project works, the discussion focused on ways to control access to the construction sites as much as possible and to strengthen closer engagement with the local communities (also see Sections 2.6 and 2.8 below).

2.6. Capacity Building and Community Consultation and Outreach

Capacity building/training: From January 1 to June 30, 2023, there were seven (07) E&S safeguard trainings conducted with a total of 258 participants wherein 31 are female as presented in Tables 2-6 below. In addition, the contractor ESS team provided daily OSH induction to workers every morning before working.

Table 2.7 List of Training

No.	Date	Topic	Trainer	Trainee	# of Participants	
					Total	F
1	10 Feb 2023	Safety Education and using PPE, occupational health and safety, First aid, HIV/AIDS, COVID-19 prevention, sanitation and hygiene	Contractor ESS team	Contractor staffs and worker	40	4
2	22-24 Feb 2023	Implementation, monitoring and reporting of CESMP	CSC Senior ESS specialists	Contractor ESS team and PIU ESS coordinator	16	2
3	30 March 2023	Safety Education and using PPE, occupational health and safety, First aid, HIV/AIDS, COVID-19 prevention, sanitation and hygiene, and COC on SEA/SH and VAC	Contractor ESS team	Contractor staffs and worker	40	4
4	19 April 2023	Safety Education and using PPE, occupational health and safety, First aid, HIV/AIDS, COVID-19 prevention, sanitation and hygiene, and COC on SEA/SH and VAC	Contractor ESS team	Contractor staffs and worker	40	4
5	28 April 2023	Training on O&M of movable weir	Contractor	(PIU-ODX) and local communities/local authorities	13	1

No.	Date	Topic	Trainer	Trainee	# of Participants	
					Total	F
6	4-6 June 2023	Conducted the on training on the C-ESMP preparation and implementation to the Contractor Lot 2 and on supervision and monitoring of compliance by the contractor to CSC, the field engineers of DPWT, and SMWG in ODX;	PTI team and ESS Consultant	SMWG, CSC, PIU and Contractor	37	8
7	29 June 2023	Road safety, OHS, and CHS	Contractor ESS team	Contractor's drivers and workers	72	8
Total					258	31

Community consultation and outreach. During January to June 2023, there were five (5) awareness raising activities conducted in the ten (10) villages with a total of **363** participants wherein 136 are females. See Tables 2-7 for more detailed information and topics provided are as follows:

- GRM Poster: GRM process/steps, contact persons and contact number;
- GRM Feedback Box;
- Inform village authorities on the list of all CSC staffs and engineer working for the project;
- Disseminate information in the project location/map with work location points, access roads, work activities, work schedule, and working time in the village;
- Disseminate information to the community regarding construction activities, schedule, working time, transportation trucks, time, and frequency including community health and safety risks such as road traffic disturbance, road safety, dust and noise disturbance and accident including hazard and danger of entering to the construction site;
- Disseminate information to the community and public regarding mitigation measures such as installation of project sign board, warning signs and safety facilities, speed control signs, watering the roads if needed and training for drivers and workers;
- Request the community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs, safety facilities, and not entering the construction sites (rivers) etc.

Table 2.8 List of Consultation with the Local Communities

No.	Date	Village Name	Conducted by	# of Participants		Remarks
				Total #	F	
1	3/3/2023	Ban Namee	CSC, Contractor and PIU	41	22	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths and etc..

No.	Date	Village Name	Conducted by	# of Participants		Remarks
				Total #	F	
2	5/3/2023	Ban Nalao	CSC, Contractor and PIU	25	10	Same as above
3	5/4/2023	Ban Navannoy	CSC, Contractor and PIU	47	11	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
4	6/4/2023	BanVanghai	CSC, Contractor and PIU	34	7	Same as above
5	7/4/2023	BanNasao	CSC, Contractor and PIU	31	17	Same as above
6	7/6/2023	Pasack Village	CSC, Contractor, and PIU	61	21	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
7	8/6/2023	Montai Village	CSC, Contractor, and PIU	29	15	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
8	9/6/2023	Longkorduen Village	CSC, Contractor, and PIU	41	14	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
9	10/6/2023	Jeng Village	CSC, Contractor, and PIU	23	13	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
10	11/6/2023	Thin Village	CSC, Contractor, and PIU	34	6	Participants are representatives from all ethnic groups (Lao Tai, Khmu and Hmong), village authorities, women, youths etc.
Total				363	136	

2.7 Grievance Redress Mechanism (GRM)

The Contractor together with the PIU and CSC installed poster and billboards with GRM information and contact detail of responsible persons in the construction site.

During the implementation of the construction period for Lot 2, in January to June 2023, there were six (6) recorded cases by the Project Implementation Unit (PIU) but no serious complaints/grievance. There is one (1) grievance received from affected household from the Donxay village; and two (2) grievances from affected household of the Thin village; and three (3) grievances from affected household of the Nawannoy village; (4) grievance/complaints is from the village head of Long kor Deua; and (5) and (6) grievance/complaints is from the village head of Nawannoy village. These grievances were mainly related to their request as follows: (1) to pay for the compensation in the remaining 486 square meters of the rice field; (2) to pay compensation for the affected agricultural land by the ODX subproject; (3) To solve the problem of the rice field affected by the construction; (4) resolve the issue on earth and gravel falling from trucks along the road from the borrow pit to the construction site; and (5)

dust along the road transportation of spoil materials from river bed dredging from the construction site to the disposal areas; and (6) to solve the water blocking problem when raining in Nawannoy Village. All grievances have been resolved with the PAHs. For more details, please see information below:

Table 2.9 List of complaints from Affected Households

Type of Grievance	Details (Date, person, address, contact details, etc.)	Required Action, Responsibility, and Timing	Resolution
1. Propose to the project to pay compensation for the remaining 486 square meters of the rice field	Ms. Luang Kham, Don Xay village, Xay district, dated: 02 March 2023	Project agreed to pay compensation to Ms. Luang Kham for the remaining 486m ² of the rice field.	Already completed on 29 May 2023
2. Propose to the project to pay compensate of agricultural land that affected by the DRM-ODX project	Mr. Maimang Thampanya, Nawannoy Village Xay district, dated: 26 April 2023	The project implementation team together with the mediation committee at the district and village authority of Nawannoy went to actual measurement survey of the land area. This plot is not located in the project site.	Already completed on 10 May 2023
3. Propose to the project to solve the problems of the rice fields affected by the construction of riverbank protection, some of the rice fields were damaged.	Mr. Khamphouan Thin Village Xay district, dated 24 June 2023	The project implementation team together with the mediation committee at the district and village authority of Thin village went for the actual measurement of land area survey and found that the construction of the riverbank protection did not have any impact to the rice fields of Mr. Khomphouan at all because from the construction site to the rice field is still about 15-20 meters.	Already completed on 25 June 2023
4. Propose to resolve the issue of land falling from trucks along the road from the borrow pit to the construction site.	Received a phone call from the village head of Long kor village dated 10/05/2023	Contractor agreed to use a cover to the truck during the transporting of soil to the construction site and also clean the spillage on public road at the sometime.	Completed
5. Propose to the project to solve the problem of dust in the road when	Received a phone call from the village head of Nawannoy village dated 10/05/2023	- Contractor agreed to use a cover to the truck during transporting of soil to the construction site.	Completed

transporting soil since people and students go to work and school respectively.		- The contractor watered the road thrice a week	
6. Propose to the project to solving the water logging problem during the rains in Nawannoy village	Received a phone call from the village head of Nawannoy village dated 20/5/2023	The contractor dug out drainage ditches in the area where the water is trapped	Completed

2.8 Accident/Incident Reporting

During January to September 2023, there was one (1) fatal incident occurred in Lot 2 construction area (Section R3 in Nam Mao). On 17 June 2023 around 13:00, a boy was found dead in the Nam Kor River (Lot 2 construction area) due to drowning. The incident occurred in Nam Kor River at the Km3+400 of the Lot 2 construction area upstream of the Riverside Park 1 in Na Wannoy Village, Xay District, Udomxay province during the lunch break. Therefore, no workers or staff in the area. The 8-year-old drowned boy (Mr. Khamphout Pinkham) is from Jeng Village, Xay District. He is the son of Mr. Somxai Pinkham (53 years old) who is a government staff at the Oudomxay Province Water Supply.

After field investigation and interview of the people involved in the incident including the parent of the drowned boy, it can be concluded that the underlying cause of the incident pertains to the inability to swim. According to the information provided by the parent of the drowned boy, the boy never swim or dive in the river, and he only swim in the plastic pool at home.

The bereaved family did not claim anything from the project and the contractor is not considered liable in the cause of the incident. However, the PIU, CSC and contractor went to comfort the bereaved family on 17 June 2023 and provided financial assistance to the bereaved family amounting to LAK3,000,000.

On safeguard activities, to prevent similar incident to occur again, the following measures were conducted in July-August 2023:

- The Project/Contractor installed site barricades (red-and-white vinyl tape), warning signs, and access prohibition to the construction sites/areas along the riverside construction sites/areas. Interview with people involved in the incident confirmed that they saw the barricades and warning signs. However, more efforts were made in more areas and with different type of hard barricade (concrete structure, more signs, specific guards, etc.) and also strengthening site safety and control access in some critical areas based on the risk map prepared for the Nam Kor-Nam Mao. Please see Annex 2B for the site safety map and photos showing the barricades and warning signs.
- The Project (PIU, CSC and contractor) conducted awareness raising activities in 10 communities/villages located in Lot 2 area in March to June 2023 with a total of 363 participants including 136 women. Interview with father of the drowned boy confirmed that he participated in the awareness raising activities organized by the Project.
- Training on Occupation Health and Safety (OHS) and Community Health and Safety has been provided.

On documentation, PMU sent a draft of the Incident Form – ESIRT Part C (“Investigation Report”) to WB task team on July 18, 2023. The CSC also prepared a map of high-risk areas

and a preliminary list of corrective actions on July 27, 2023. The WB provided guidance and suggested improvements to these documents on 27 July and 02 August 2023.

More details about the incident, investigation findings and corrective actions to be implemented are included as a separate Incident Report which was submitted to the World Bank, in August-September 2023. Table 2-10 below identified the safeguard corrective actions to be implemented and monitored throughout the construction period. These activities have been updated as part of the priority activities to be implemented during the next 6 months and throughout the construction of the subproject (see Chapter 6, Table 6-1).

Table 2.10 Corrective Actions to be implemented and monitored

Action	Responsible Party	Expected Date
<p>(1) Improvement and ensure maintenance of site barricade and warning signs:</p> <ul style="list-style-type: none"> • <i>High risk sites:</i> Barricades with flagmen/ guardsmen in 4 critical spots (where vehicles and local people used to frequently pass or get in to the river e.g for fishing and swimming). One guardsman is present for 24/7 for 1 spot and the other 3 spots for a period, 8am-10pm. • <i>Low-moderate risk sites:</i> warning signs with vinyl tape installed along the worksite and the river with site patrolling at least 2-3 times/per day until 5pm by the contractor and by assistance from village authorities or village police after 5pm. • The local communities will be encouraged to work closely with the contractor to ensure proper maintenance. <p>See Annex 2B --Site Safety Map (see Figure 2.4 below).</p>	<p>Contractor, construction supervision consultant (CSC), Project Implementation Unit (PIU) at the Provincial Department of Public Works and Transport (DPWT), Project Management Unit (PMU), village authorities</p>	<p>Started in end June and completed in July 2023 and continues throughout the construction phase</p>
<p>(2) Issuance of warning/prohibition notification letter: Office of Xay District issued warning notification letter to the public to prohibit unauthorised persons to enter or access to construction site/area.</p>	<p>Office of Xay District</p>	<p>Completed on 17 July 2023</p>
<p>(3) Risk mapping and assessment: CSC, PIU and Contractor carried out assessment to identify locations with high CHS risk (“hot spots”) along the length of the construction area and will come up with proposed improvement measures including: site barricade with site patrolling, guardsmen during day time, warning signs, access prohibition to waterway, flag man and etc. The Safeguards Monitoring Work Group (SMWG) will be responsible for monitoring the CHS related activities and include the results in their quarterly safeguard monitoring report</p>	<p>PMU, PIU, CSC and Contractor</p>	<p>Submitted on 27 July 2023</p>

Action	Responsible Party	Expected Date
(4) Enhance role of SMWG: It is important to strengthen the role of the existing Safeguards Monitoring Working Group (SMWG) in engaging with local authorities and local communities and ensuring community health and safety. PMU/PTI should ensure that the SMWG can play an effective role in monitoring and reporting of project safeguard performance (by contractor, CSC, and PIU) through their quarterly report (to PTI/PMU) and it should be included in the PTI/PMU 6-monthly Environmental and Social Monitoring Report (ESMR). This effort remains weak and PMU/PTI should pay more attention on role of SMWG while CSC should focus on contractor performance. Close supervision of the Contractor's Environmental and Social Management Plan (C-ESMP), particularly on the corrective actions implemented, should be conducted by the CSC, Safeguard Consultant of PMU/PTI (at least once a month or as necessary) in collaboration with SMWG.	PMU/PTI	Started July 2023 and continues throughout the construction phase.
(5) More awareness raising activities: conduct additional awareness raising with all 10 village heads and request them to announce on the local speaker system and local radio at least 1-2 times per week to request community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities and do not enter to the construction sites (rivers) and etc. (ii) conduct additional awareness raising with nearest schools and market; and (iii) provide refresher training to the Project Safeguards Monitoring Working Group (SWMG) on Environmental and Social Management Plan (ESMP) measures with emphasize on Community and Occupational Health and Safety (COHS) measures.	PMU, PIU, CSC and Contractor	Start in July 2023 and regular follow up
(6) Works pause during heaviest part of rainy season: PMU has issued a letter to contractor to pause the excavation work and earth work during heaviest part of rainy season: starting from mid-July 2023 and start again tentatively in early September 2023. However, some works such as stockpiling of riprap, installation of precast concrete pipes for drainage, and review of construction drawings (e.g. toilets for riverside park) can continue.	PMU	Letter issued on 14 July 2023 and the earth work has been paused from 18 July 2023.
(7) Earth control measures: in preparation for the rainy season, the CSC has reported that the contractor is currently installing some temporary retaining structures for material stockpiles and earth control measures for exposed surfaces and construction sites to prevent scouring and erosion.	Contractor	Started end of June 2023 and on-going
(8) Safety of the construction site during the pause of the construction: to continue necessary safeguards measures	PMU, PIU, CSC and contractor	During rainy season

Action	Responsible Party	Expected Date
such as: keep site checking, provision of guardsmen, partnership with community on site patrolling; especially for high-risk locations that can be easily accessed during the pause of works, provide barricades, warning signs, flagman at the required locations, awareness raising and others as provided below.		
<p>(9) Improvement of Contractor’s ESMP (C-ESMP) and close monitoring of C-ESMP and Environmental and Social Safeguards Monthly Report: Focusing on the implementation of OHS and CHS measures. The proposed measures include (i) risk assessment and mapping; (ii) install more site safety barricades and warning signs; (iii) increase of guards men and flagmen as stated in (1) above and Annex 1 (b); (iv) more awareness raising in nearby schools and markets; (v) work and partnership with local authorities to conduct weekly announcement to the public via local/village speakers regarding safety risks, access prohibition, no fishing and swimming in the construction area; (vi) partnership with community on site patrolling if necessary during night time in collaboration with the local communities, (vii) continue to conduct daily OHS and CHS orientation to contractor’s workers before they start their job such as safe driving and safety at work as well as on-site monitoring of local people access to the construction site, and (viii) close supervision of the C-ESMP particularly the strengthened safety measures by the CSC, Safeguard Consultant of PMU/PTI (at least once a month) in collaboration with SMWG and the local communities.</p>	Contractor and CSC	30 August 2023 and continue to be implemented until the work completion.

Figure 2-4 Site Safety Map for ODX subproject

2.9 Compliance Monitoring with ECC Requirements

The SMWG (chaired by PIU comprising key local agencies and mass organization) is



responsible for periodic monitoring of safeguard performance of the contractor including ensuring compliance with the ECC and local regulations. The role of SMWG are to (i) submit a monitoring report (quarterly) to PTI so the results can be integrated into the ESMR every six months, (ii) participate in training on the implementation of the environmental and social management plan, (iii) ensure that the people in the target villages of the project are informed about the various procedures of the GRM and disseminate information about the Project, (iv) coordinate with village authorities and activity groups to discuss (if necessary) and analyze problems related to the complaints of the affected people, collect information and review the facts through meetings to resolve complaints at the village level as necessary, and (v) report progress in monitoring the implementation of the project's environmental and social management plan in each phase to the project committee at the district and provincial levels. MONRE staff also joint PTI in the 6-month monitoring effort.

With the GRM findings and the need to strengthen safeguard compliance following the fatal accident in June 2023, it is expected that the roles and responsibilities of the SMWG will also include increasing knowledge and awareness on the safeguard risks and mitigation measures to improve effectiveness of the construction sites and water uses and other Project activities to be required to address safeguard issues during operational stage of the Project facilities in the Project area.

2.10 C-ESMP addendum and adjustment of scope and schedule of safeguard reporting

The Bank conducted a few follow-up visits in July-August to ensure that the follow-up actions on site security and site safety was actually conducted as agreed (see discussed in Section 2.9 above). In addition, in light of the proposed new borrow pit which is located at the corner of the road and the safeguard actions to improve safety measures for the project sites during Lot2 construction to prevent additional accidents, the mission also requested the CSC and PIU to work with contractor to improve effectiveness of the C-ESMP focusing on ensuring safety of local communities and the updated C-ESMP should be submitted to WB for review and comment). In addition, the WB team informed that reviewed of the CSC monthly progress reports and the monthly safeguard monitoring reports also suggested that there are rooms for improvement of the CSC reporting arrangement to improve effectiveness of the reporting system for safeguard and details can be discussed during the follow-up WB mission planned for August 2023.

CHAPTER 3. LUANG PRABANG (LPB) SUBPROJECT

3.1 Introduction

In Luang Prabang, it is envisaged that the works will cover riverbank/embankment protection along the selected lengths indicated in Figure 3-1 in red and black approximately up to 2 km of the Nam Khan and the installation of 2 “Water Gates” and pumps on urban tributaries/creeks joining the Mekong River (1 Gate) and Nam Khan (1 Gate) - refer to Figure 3-1 for the location. The river bank sections indicated in red have the highest priority.



Figure 3-1 showing locations of embankment and 2 water gates

3.2 Civil Work Progress

The construction schedule of the LPB sub-project started on May 15, 2023 and will be completed on May 15, 2025 with a duration of 24 months. As of 30 June 2023, the overall construction progress of LPB sub-project was zero (0%) because no civil work took place since PMU was waiting for the response on the ESMP from UNESCO.

In early 2023, the UNESCO expressed their concerns on the proposed hard structure design for the sub-project. The PMU, PTI, and the NSC provided clarification to the UNESCO comments through the Ministry of Communication and Tourism (MICT) and also sent the ESMP approved by WB to UNESCO for information and comments in March 2023. Official UNESCO response to MICT was obtained on June 15, 2023. UNESCO comments on the need to support the current vegetated riprap and support further investigation, scoping, and development of bio-engineered solutions. The MICT to respond to UNESCO with additional technical justification for the current vegetated riprap design.

Nonetheless, the status of the work progress is highlighted as follows:

- A contractor (China Jiengxi International Economic and Technical Cooperation Co. Ltd. and Jiengxi Hydropower Construction Group Co. Ltd, JV) was selected and the contract signed on January 13, 2023;
- The CSC (CEGIS) signed the contract on January 26, 2023;
- UNESCO provided comments to the Ministry of Information, Cultural and Tourism (MICT) following UNESCO's Reactive Monitoring Mission (dated July 27, 2022). Following this, a virtual coordination meeting with UNESCO and DOW was held on August 15, 2022, and technical documents were sent through email by the World Heritage Office in LPB to MICT on September 15, 2023. This was subsequently conveyed by the Department of World Heritage under MICT to UNESCO on October 12, 2022. Subsequently, the International Council on Monuments and Sites (ICOMOS), an NGO that provides UNESCO with technical assistance and reports on the state of conservation of inscribed properties, sent a Technical Review Report (TRR) last January 2023, citing the importance of preserving to the extent possible the natural features of the riverbank which contribute to its Outstanding Universal Value (OUV) and designation of LPB as a World Heritage site.

The Bank concurred with the DOW and the project design consultant's assessment that the engineered approach adopted is needed to protect the banks against the substantial tractive forces which are more pronounced at the confluence of the Nam Khan and the Mekong River (a significant collapse of the embankment and the main road supported by it in this area, which also threatened properties in the heritage part of the town, occurred in 2018). The MPWT's DOW has formally updated the Minister on March 7, 2023 with responses to comments raised by UNESCO, and the MICT's Department of World Heritage has formally conveyed these technical responses to UNESCO on May 5, 2023. Official letter to proceed was issued on May 15, 2023, after MICT formally conveyed their agreement to the proposed works to MPWT.

The clearance from UNESCO was sent to MICT on June 15, 2023, stating that UNESCO has no objection to the current vegetated riprap design, and the contractor intends to start the main civil works in September 2023, after the rainy season. Also, the rainy season this year started a bit early after the issuance of letter to proceed. The WB task team requested that DOW send through MICT a final set of technical justifications to UNESCO and obtain their acknowledgement by end of August 2023, prior to the commencement of works.

It is concluded that during the reporting period, the Contractor completed the preparatory work as follow:

- Mobilization of Contractor's staff in major position to the project site.
- Establishment of construction and worker camp sites, including a truck washing bay.
- Mobilized equipment to the project site.
- Identified quarries and borrow pit.
- Completed testing of construction materials in laboratory and concrete mix design.
- Prepared construction material transportation plan considering the sensitive environmental situation of Luang Prabang.
- Submitted the construction method of statements which is environment friendly to UNESCO heritage city.

3.3 Implementation of Abbreviated Resettlement Action Plan (ARAP)

During January to September 2023, implementation of ARAP is as follows:

The compensation payment to the affected households by the LPB subproject was 100% completed. The PRC and the PIU of DPWT-LPB paid the compensation for affected structures

and trees, dismantlement, transportation, and rice allowance to the 59 Affected Households (AHs). The inflation rate estimated through the market survey was added to the amount of compensation for permanent structures and secondary structures in LPB. The rate increased to 10.87% with a total of 741.346.152 LAK. To date, the compensation has been 100% completed in January 2023.

The PTI and the NSC monitored the progress in resettlement and livelihood of 59 affected households who transferred to build houses in other villages. The establishment of Grievance Redress Mechanism (GRM) box to each target village has been completed and the NSC will closely work with PIU, LPB, PRC, and the contractor on GRM monitoring.

3.4 Implementation of Environment and Social Monitoring Plan (ESMP)

The ESMP of LPB sub-project was prepared by ISAN/LTEC and the final ESMP was submitted and approved by the WB. The contractor (China Jiengxi) was already selected and signed the contract on January 13, 2023. The CSC (CEGIS) signed the contract on January 26, 2023. After signing a contract, the contractor hired safeguard officers and submitted the first draft of C-ESMP to CSC (CEGIS) and PMU/PTI in early 2023.

In early March 2023, the contractor completed installation of office and worker's camps and obtaining of agreements with land owners for borrow areas and spoil disposal including signing of the contract on the renting of the worker's camps and spoil disposal site and also completed installation of the sub-project signs. The PTI and the NSC provided training to the contractor and the CSC, the field engineers of DPWT and the SMWG for LPB.

On 12 April 2023, the PMU sent comments on the first draft C-ESMP to the contractor and the final C-ESMP was submitted and approved by the PMU on 04 May 2023. PMU submitted the C-ESMP for LPB to WB for comments in September 2023.

It is noted that the rainy season in LPB in 2023 started a bit early after the issuance of the letter to proceed. The contractor's activities are confined with the preparatory works as follows: mobilized staff in major position to the project site; completed their establishment at the site; mobilized equipment to the project site; identified quarry and borrow pit; completed testing of construction materials in laboratory and concrete mix design; prepared the construction material transportation plan considering the sensitive environmental situation of LPB; contractor submitted construction method of statements which is environment friendly to UNESCO heritage city; selected worker's camps, spoil disposal, warning signs installation, etc.; Project Implementation Unit (PIU) completed the installation of the complaint process in the project site before the WB team technical mission on March 29, 2023.

UXO risks. The contractor completed the UXO clearance through a subcontractor (LCY Co. Ltd.) and the NRA clearance certificate was issued. On February 28, 2023, the ECC was issued by MONRE.

3.5 C-ESMP Compliance Monitoring

Overall, the performance of environmental and social safeguards during January to September 2023 is satisfactory as there are no major E&S issues, incidents and grievances because the project is at the site preparation stage and installation of construction facilities such as installation of worker camps and identification of construction materials sites. The first C-ESMP was prepared and approved by the PMU and ESS team of CSC and contractor were mobilized on March 2023. Based on comments of the World Bank during mission on August 2023 suggest that the C-ESMP needs to be updated to cover the change in access to the

worksite and safeguard measures to manage E&S risks and impacts anticipated from the new access and transport methods; especially in regards to the floating bridge and measures to minimize disturbance and impacts on waterway transport and water flow. The C-ESMP needs to include (ii) site-specific traffic and road safety management plan for the operation of borrow pit which is located along the curve and steep segment of the main road from LPB city to the train station, and (ii) add English version into the billboard and poster on the project and GRM. Therefore, as of end of September, the C-ESMP is being updated taking into account WB comments and it is expected to be completed by end December 2023.

3.6 Capacity Building and Community Consultation/Outreach

Capacity building/training: From January 1 to June 30, 2023, there were two (02) E&S safeguard trainings conducted with a total of 70 participants wherein 17 are female. Table 3-1 below presents the information and topics for training as follows:

Table 3.11 List of Training

No.	Date	Topic	Trainer	Trainee	# of Participants	
					Total	F
1	15-20 May 2023	Conducted training on the C-ESMP preparation and implementation to the Contractor and supervision and monitoring of compliance by the contractor to CSC, the field engineers of DPWT, and ESMWG in ODX;	PTI team and ESS Consultant	ESWG, CSC, PIU and Contractor's	45	15
2	18-20 June 2023	Conduct training on the implementation, monitoring, and reporting of CESMP to contractor team	CSC Senior ESS specialists	Contractor ESS team and PIU ESS coordinator	25	2
Total					70	17

Community Consultation and Outreach. During January to June 2023, there were five (5) awareness raising activities conducted in four (4) villages with a total of 135 participants with 55 females. See Table 3-2 for the topics provided as follows:

- GRM Poster: GRM process/steps, contact persons and contact number;
- GRM Feedback Box;
- Inform village authorities on the list of all CSC staffs and engineer working for the project
- Disseminate information on the project location/map with work location points, access roads, work activities, work schedule, and working time in the village;
- Disseminate information to the community regarding construction activities, schedule, working time, transportation trucks, time, frequency including community health and safety risks such as road traffic disturbance, road safety, dust and noise disturbance, and accident including hazard and danger of entering to the construction site;

- Disseminate information to the community and public regarding mitigation measures such as installation of project sign board, warning signs and safety facilities, speed control signs, watering the road if necessary, and training for drivers and workers;
- Request the community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities, not entering the construction sites (rivers) etc.
- Conduct public consultation to villagers in monitoring the river bank profile along the sections that may be affected by the project structure after the construction is completed.

Table 3.12 List of Consultation with the Local Communities

No.	Date	Village Name	Conducted by	# of Participants		Remarks
				Total #	F	
1	22/5/2023	Ban Phanluang	PTI, PIU, CSC and Contractor	45	17	Participants are village authorities, women, youths and etc.
2	23/5/2023	Ban Phonsa Aat	PTI, PIU, CSC and Contractor	32	12	Same as above
3	24/5/2023	Ban Xiengthong	PTI, PIU, CSC and Contractor	34	17	Same as above
4	25/5/2023	Ban Wat Sean	PTI, PIU, CSC and Contractor	24	9	Same as above
Total				135	55	

3.7 Grievance Redress Mechanism (GRM)

There were no outstanding project-associated complaints and social issues by the end of June 2023 since the civil work did not start yet.

3.8 ECC Compliance Monitoring

For LPB sub-project, an Environmental and Social Impact Assessment (ESIA) was submitted to MONRE and it was approved and an ECC was issued by MONRE in February 2023. The PIU and the SMWG is responsible for monitoring and ensure compliance with the ECC. It is noted that the ECC is valid for a period of 2 years.

CHAPTER 4. BOLIKHAMXAY (BKX) SUB-PROJECT**4.1 Introduction**

Based on the detailed design, works to be conducted under BKX sub-project comprising (a) construction of two (2) embankments and riverbank protection structures along the Mekong River (Lao side) at the upstream (Section 1) and downstream (Section 2) of the Nam Xan River Mouth and (b) rehabilitation/extension of the existing pipeline to irrigate a small area located at km 0+310 downstream of Section 2. The proposed works for the embankment and the river bank protection aims to mitigate flood damage of T-50-year return period of flood as recommended in the feasibility study with a total investment of US\$ 4.9 million. The proposed embankment and river bank protection works will be extended about 7 to 10 meters (m) from the existing riverbank toward the Mekong River and 2m higher than the road elevation (see Figure 4-1). Table 4-1 below provides a summary of the sub-project structural components.

Table 4.13 Structural components

No.	Project Activities	Section	Location	Details
1	Two embankments and two riverbank protections of 1.2 km on the left side of Mekong River	Section 1, no rising of the embankment on this section upstream of the Nam Xan Mouth	Ban Houysiat	Total length of Riverbank Protection at Section-1 is 652 m, 500 m at the upstream of Houysait and 152 m at the downstream of Houysait
		Section 2, with elevation of the embankment at the left side of the Mekong River downstream of the Nam Xan Mouth	Ban Pakxan-Tai.	The length of Section-2 is 550 m
2	Stairways (for easy access from inland to the riverside after completing embankment construction, five stairways will be constructed as part of embankment structures to provide access to the river bank and to facilitate recreational activities along the Mekong River)	Both sections	Ban Houysiat and Ban Pakxan-Tai	5 points (W 3.0 m, L 34.0m)
3	Extension of an existing irrigation pipeline located at the downstream of the sub-project site	Section 2	Section 2	Pipe, dia. 500 mm, L=38 m



Figure 4-1 Sub-project Location and Proposed Alignment (2 sections)

4.2 Civil Work Progress

The CSC (CEGIS) and contractor was already selected and signed the contract in January 2023. The contractor mobilized staff in major position, mobilized equipment in the project site, and completed testing of construction materials in laboratory and concrete mix design. The construction schedule of BKX sub-project started in February 2023 and will be completed by April 2024 with a duration of 15 months. During February to June 2023, the overall construction progress was about 13.08% including UXO survey and clearance, survey and design, installation of office and worker camps, and obtaining of agreements with the landowners for borrow areas and spoil disposal, riverbank protection, and earthworks. Works was temporary stopped during July-September 2023 due to rainy season and construction will be resumed in October 2023.

Table 14.2 Sub-project in BKX Construction Sites and facilities

No	Site Name	Location	Area (ha) or distance (km)	Type of Land	Duration of Use		Progress as of June 2023	Agreement with the land owner
					From	To		
I	Construction Sites							
1	River Bank-protection		L= 1.102 km		1/2/2023	30/4/2024	13.08%	
	Section number							
	Section-1	0+000-0+552	552 m		29/3/2023	25/6/2023	13.08%	
	Section-2	0+000-0+550	550 m		22/5/2023	25/5/2023		
II	Access Road to Section-1 and Section-2							
1	Mixay Village	13NR to Section-2	766 m	GoL	22/5/2023	End Project	In-use	
2	Phusy Village	13NR to Section-2	1,190 m	GoL	22/5/2023	End Project	In-use	
3	Pakxan-Tai Village	13NR to Section-2	1,084 m	GoL	22/5/2023	End Project	In-use	
III	Worker Camps							
1	Worker Camp	B. Houysiat	3,200 m ²	Private	27/1/2023	End Project	In-use	Yes-Provided in C-ESMP report
IV	Borrow Pits							
1	Mr. Vengthong	Km 9+00	30.000 m ³	Private	18/2/2023	End Project	in-use	Yes-Provided in Mar report
2	State land	Km7+500	30.000 m ³	State land	2/3/2023	End Project	in-use	Yes-Provided in Mar report
V	Disposal Area							
1	Mr. Nalid	Km 4+00	32.000 m ²	Private	17/1/2022	End Project	In-use	Yes-Provided in Mar report
2	Ban Na-eung	Km 2+00				End Project		

4.3 Implementation of Abbreviated Resettlement Action Plan (ARAP)

During January to September 2023, implementation of ARAP is as follows:

- The PRC recently established as per Agreement with the Provincial Governor (No. 570/PG.BKX, dated October 06, 2020) on the compensation unit rates.
- There are 20 PAH for BKX subproject. The payment for compensation/allowance to the affected households is 100% completed (a. for affected structures and trees, dismantlement and transportation; and rice allowance of the 20 Affected Households based on the inflation rate for permanent structures and secondary structures in the BKX subproject area. The rate increased to 10.43% with a total of 502,872,970 LAK. Compensation cost for affected permanent structures 38,683,847 LAK, secondary

structures 265,338,606 LAK, industrial trees 30,480,975 LAK, and remove and/or transportation amounting to 2,000,000. The compensation was 100% completed in January 2023.

The PTI and the NSC also monitored the progress in resettlement and livelihood of the twenty (20) affected households who transferred to build houses in other villages as well as completed establishment of GRM box to each target village. PTI and the NSC will closely work with PIU, PRC, and the contractor on GRM monitoring.

4.4 Implementation of Environment and Social Monitoring Plan (ESMP) for BKX

The ESMP of BKX sub-project was prepared by ISAN/LTEC and the final ESMP was submitted and approved by the WB on December 20, 2022. The PONRE of BKX issued 2 ECCs for the BKX sub-project. The contractor (China Jiangxi International Economic and Technical Cooperation Co., Ltd (CJIC) -Jiangxi Water and Hydropower Construction Group Co., Ltd (JWHC) Joint Venture) was already selected and signed the contract on 31 January 2023. The CSC (CEGIS) signed the contract on January 26, 2023. The contractor submitted the final draft of the C-ESMP to PMU for review and comments. PMU approved the C-ESMP on March 14, 2023.

UXO Clearance. The UXO clearance was completed (by the contractor) in January 2023 (see Annex 3 for the UXO clearance certificate). Installation of the complaint process and safety signs at the sub-project site is completed before WB team technical mission on 27 – 31 March 2023.

4.5 C-ESMP Compliance Monitoring

During the report period, PTI, PMU, and the NSC advised the contractor to submit information and documents for approval according to procedures such as personnel, equipment, survey, design, borrow pit, quarry stone, river gravel, crushed stone, sand, materials, environment, construction method statement and others. The team also inspected the contractor's camp site, general situation of construction site, sources of the borrow pit, quarry stone, river gravel, crushed stone, and sand. The proposed sites are considered acceptable in general.

During this period, PMU, PTI, and the NSC also provided training on the C-ESMP preparation and implementation to the contractor and on supervision and monitoring of C-ESMP compliance by contractor to the CSC, the field engineers of DPWT and SMWG.

The CSC conducts monthly compliance monitoring on implementing the C-ESMP with the PIU and contractor for both Section-1 and Section-2. The PTI and NSC also advised the CSC to conduct a C-ESMP compliance assessment using similar approach being applied for ODX subproject. The results are included in the CSC safeguard monitoring report submitted to PMU/PTI. Tables 4-3 and 4-4 below show an overview assessment on compliance monitoring of the C-ESMP for BKX subproject in May 2023. The overall safeguard performance was considered satisfactory considering the response of contractor and there are no major E&S issues, accidents, and grievances from affected people during May to June.

However, the contractor must pay more attention to the environment and safety control for dump trucks loading of construction materials and the construction site should strictly apply limited speed in order to avoid accident, and ensure covering the truck during construction phase. The fully compliance performance observed include:

- No erosion issues at all sites;

- Proper construction waste management at all construction sites;
- No C-ESMP related GRM issues such as noise, dust, labor related issues, and accident reported; and
- The contractor conducted training on OHS and covered COC on SEA/SH and VAC.

Engineer camp was constructed for 32 staffs including 7 local staffs.

No child labor recruited by the contractor and staffs and workers are managed and treated based on the Laos labor law.

The camp facilities consist of gravel yard, bedrooms, offices, kitchen and eating rooms, drinking water and water supply, toilet, and fire extinguisher.

Installation of signs indicating toilet, First Aid Kit; information board; translation of company COC on SEA/SH and VAC; sufficient waste bins; and treatment ponds for wastewater from bathing and kitchen.

Installation of safety, speed limit, and warning signs at the road and access road;

All construction sites are tidy; no spillage of hazardous materials or waste; no spillage of toxic/hazardous chemicals or water and soil pollution; construction activities are carried out during day time (08:00 to 18:00 on weekdays and 08:00 to 13:00 on Saturday).

There are some *partially compliance (PC)* performance including:

- On construction site management and traffic and access road management: no detailed traffic management plan and temporary accommodation in the Section-2 site do not have waste separation.
- Some workers did not fully apply the PPE in the work sites.
- During transportation, the construction materials were covered by plastic sheet but not 100% in the Section-2. Strict enforcement on plastic sheet covering in full should be implemented. Regular watering of road surfaces in the village areas should also be required.
- No first aid kit painkillers, cold, coughs, antibiotics in the Section-2 construction.
- As suggested in Table 4-4, there was no serious non-compliance issues that need corrective action (NCA).

Table 4.15 Overview of the C-ESMP Compliance from January – May 2023

No	Site Name	Monitored Topics (see remarks below)														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	Construction Site															
1	Earthwork completed and Pavement															
	Section - 1	■	■	■	×	■	■	■	■	×	■	■	■	×	■	■
	Section - 2	Construction has not started yet														
2	Riverbank protection work															
	Section - 1	■	■	■	×	■	■	■	■	×	■	■	■	×	■	■
	Section - 2	■	■	■	×	■	■	■	■	×	■	■	■	×	■	■
3	Drainage															
	Section - 1	Construction has not started yet														
	Section - 2	Construction has not started yet														
4	Riverbank works Appurtenances															
	Section - 1	Construction has not started yet														

Section - 2																				
II	Access Road to Construction site																			
1	Houysiat village	Green	Green	Yellow	x	Yellow	Yellow	Yellow	Yellow	x	x	x	x	x	Green	Green				
2	Pakxan-tai village	Green	Green	Yellow	x	Yellow	Yellow	Yellow	Yellow	x	x	x	x	x	Green	Green				
III	Worker Camp																			
1	Camp site	Green	Green	Yellow	Red	Green	Yellow	Green	Yellow	x	Green	Green	Yellow	Yellow	Green	Green				
IV	Borrow Pit																			
1	Keoudom village	Not in-use yet																		
2	Pakpung Village	Not in-use yet																		
V	Disposal Area																			
1	Mr. Nalid	Not in-use yet																		
2	Ban Na-eung	Not in-use yet																		
<p>Remark1. The list of monitoring topic: 1 for Documentation and Reporting, 2 for E&S Safeguards Team, 3 for Local Authorities and Communities, 4 for Relations, Consultation and Information Disclosure; 5 for Worker Camp and Waste Water Management, 5 for Labor Management and Occupational, Health and Safety including training for workers, 6 for Community Health and Safety: road safety, noise, dust and SEA/SH, 7 for Construction Site Management, 8 for Traffic and Access Road Management, 9 for Borrow Area and Quarry Management, 10 for Disposal Area Management, 11 for Erosion Control and Sedimentation, 12 for Waste Management and Recycling, 13 for Environmental Quality Management, 14 for GRM, and 15 for Accident.</p> <p>Remark2: <i>Green: fully compliance; orange: partially compliance; red: non-compliance; x: not applicable during the reporting month.</i></p>																				

Table 4.16 Accumulated number of NCA and PC of BKX subproject (see Remarks)

Month	Total NCA #	Total PC #	Total # Solved/Closed	Total # Pending Closure	Total # New Issues for June 2023
February					
March					
April	0	0	0	0	0
May	0	0	0	0	0
June	2	2	2	0	0
Total	2	2	2	0	0
Remarks. NCA means Need Corrective Action, PC means Partially compliance, and FC means fully compliance.					

4.6 Capacity Building and Community Consultation/Outreach

Capacity Building/Training: From January 1 to September 30, 2023, PTI and the NSC conducted seven (07) safeguard-trainings with a total of 134 participants of which 26 of them are female. Table 4-5 below provides information on the number of training and training participants. In addition, the contractor safeguard team provided daily OSH induction to workers every morning before working.

Table 4.17 List of Trainings

No.	Date	Topic	Trainer	Trainee	# of Participants	
					Total	F
1	07 March 2023	Implementation, monitoring and reporting of CESMP	CSC Senior ESS specialists	Contractor ESS team and PIU ESS coordinator	30	2
2	2-8 April 2023	Conducted training on the C-ESMP preparation and implementation to the Contractor and on supervision and monitoring of compliance by the contractor to CSC, the field engineers of DPWT, and ESMWG in ODX;	PTI team and ESS Consultant	ESWG, CSC, PIU and Contractor's	24	9
3	20-22 May 2023	Safety Education and using PPE, occupational health and safety, First aid, HIV/AIDS, COVID-19 prevention, sanitation and hygiene, and CoC on SEA/SH and VAC	Contractor ESS team	Contractor staffs and worker	35	10
4	19 June 2023	Safety Education and using PPE, occupational health and safety, First aid, HIV/AIDS, COVID-19 prevention, sanitation and hygiene, and CoC on SEA/SH and VAC	Contractor ESS team	Contractor staffs and worker	45	7
Total					134	26

Community Consultation/Outreach. During January to September 2023, there are five (5) awareness raising activities conducted in three (3) villages with a total of 87 participants including 36 females. Key activities conducted are as follows (see Table 4-6):

- GRM Poster: GRM process/steps, contact persons, and contact numbers;
- GRM Feedback Box;
- Inform village authorities on the list of all CSC staffs and engineer working for the Project;
- Disseminate information on the project location/map with work location points, access roads, work activities, work schedule, and working time within the village;
- Disseminate information to the community regarding construction activities, schedule, working time, transportation trucks, time and frequency including community health and safety risks such as road traffic disturbance, road safety, dust and noise

disturbance, and accident including hazard and danger of entering to the construction site;

- Disseminate information to the community and public regarding mitigation measures such as installation of project sign board, warning signs and safety facilities, speed control signs, watering the roads if needed, and training for drivers and workers; and
- Request the community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities, and not entering to the construction sites (rivers) etc.
- Capacity building for safety, ES 's monitoring and Report Writing to Paksan district authorities especially garbage management

Table 4.18 List of Consultation with the Local Communities

No.	Date	Village Name	Conducted by	# of Participants		Remarks
				Total #	F	
1	15-16 /2/2023	Ban Anousonxay and HouaySeit	CSC, Contractor and PIU	28	11	Participants are the village authorities, women, youths and etc.
2	17/2/2023	Ban Paksan Tay	CSC, Contractor and PIU	35	16	Same as above
3	18/5/2023	Ban Anousonxay ,HouaySeit and Paksan Tay	CSC, Contractor and PIU	24	9	Same as above
Total				87	36	

4.7 Grievance Redress Mechanism (GRM) Monitoring

During January to September 2023, there were two (2) cases recorded by the PIU of BKX but no serious complaints/grievance. Case one (1) grievance received from affected household from Houay Siet village and it was related to a request to perform a religious ceremony before the construction work and case two (2) grievance was from the Urban Development and Administration Office pertains to muddy and dusty road generated by trucks coming in and out from the muddy and dirty camp site. All cases were settled (see Table 4-7 below).

Table 4.19 List of complain from Affected Household

Type of Grievance	Details (Date, person, address, contact details, etc.)	Required Action, Responsibility, and Timing	Resolution
1. Propose through the PIU office for the construction contractor to perform a religious ceremony before starting the construction of the river bank	Mr. Vixay from Hoay Siet village, Paksan district, dated: 04 June 2023	The contractor already organized a religious ceremony.	Already completed on 10 June 2023
2. Propose to the contractor to solve the road problem since the camp is dirty	Received a phone call from the Urban Development and	The contractor company took the stone to fill the wet area in the yard of the workers camp and installed	Completed on 10 June 2023

	Administration Office, dated 15 June 2023	a place to wash the car's feet.	
--	--	------------------------------------	--

CHAPTER 5. IMPLEMENTATION PROGRESS FOR COMPONENTS 1.2 AND 1.3

5.1 Introduction

Under Component 1.2 (Integrated Urban Flood Risk Management) original project, there was a study on sustainable urban design intervention in Mouang Xay, and the study was completed in 2021 (by the SCE). However, there is no budget to implement the recommended activities/investment. As part of the AF, two (2) additional studies and a technical assistance (TA) have been identified. The flood study will focus on flood risk management for Vientiane Capital (VTE) and Pakxan City in BKK and the second study will focus on the wetland management and restoration in LPB. The TA focus on infrastructure system and data collection by supporting DOW to upgrade the current basic asset inventory to an asset management system. Safeguard aspects have been integrated into the TORs of the two (2) on-going studies (see Annex 5). A new TA on infrastructure system and data collection is being discussed while ISAN contract amendment # 9B (AF/C01-(1) for detailed design and bill of quantity (BOQ) for the additional work is on-going (NOL from WB on 4th October, 2023, ISAN will start work from 9th October 2023 (4 months contract).

5.2 TA on wetland restoration in LPB (\$350,00, AF/C03).

The second TA focusing on the “*Feasibility Study and Detailed Design for Wetlands Management and Restoration Pilot in Luang Prabang*”. GRETT (an international NGO from France) has been identified as the consultant (through a direct contract selection) and the procurement process is on-going and expected to be completed in Q3 2023. The Luang Prabang urban wetlands are a network of ponds that meander through the city, and are protected as part of the city’s classification as a UNESCO World Heritage site. The wetlands provide important ecosystem services like flood control and aquaculture. As the population and demand for land increases, there has been a tendency to encroach on wetlands or cause direct or indirect impacts to their function. For instance, as there is no sewerage network in the city and on-site sanitation systems vary in quality, domestic wastewater is often discharged directly into the ponds, canals, and streams, contributing to water quality degradation and potential impact on public health. From 183 ponds in 1999, it was reduced to about 80 ponds today⁷ due to infilling, land use conversion, construction of illegal structures, pollution and blockage from sewage and solid waste, drying up and alteration of hydraulic functions, and weak enforcement of regulations.⁸

The objectives of this TA are to: (i) collect baseline information and conduct a rapid appraisal of wetlands-related infrastructure and services in Luang Prabang including the application and/or study of the Decentralized Wastewater Treatment Solution (DEWATS) in Lao PDR⁹; (ii) define the scope for potential wetlands management activities (including constructed wetlands, integration into SUDS, and other environmental restoration projects in Luang Prabang) with a focus on flood risk management and water quality improvement in the target areas; (iii) conduct an environmental, social, and cultural impact assessments (e.g.

⁷ GRET, 2020, *WISE Project: Sanitation and integrated management of urban hydrosystems in Luang Prabang*. Available from: <https://www.gret.org/projet/sanitation-and-integrated-management-of-urban-hydrosystems-in-luang-prabang/>

⁸ Boccardi, G. and Logan, W., 2008, *Reactive monitoring mission to the town of Luang Prabang world heritage property - Lao People’s Democratic Republic 22 - 28 November 2007 mission report*, UNESCO, Paris, France.

⁹ For information, since 2009 the Lao Institute for Renewable Energy (LIRE) has collaborated with BORDA (Bremen Overseas Research and Development Association) to disseminate DEWATS to reduce illnesses which are related to insufficient sanitary conditions and environmental pollution by sewage and wastewater and a video was produced. The system is considered as a cost-effective, low maintenance solution for wastewater treatment and it has been applied in many areas in Lao PDR. The consultant is strongly encouraged to look for case studies of successful water and sanitation projects in LaoPDR to inform project design.

Cultural Heritage Impact Assessment [CHIA] and Initial Environmental Examination [IEE] or Environmental Impact Assessment [EIA] where necessary; (iv) develop a Wetlands Management Strategy and a roadmap for implementation (for both structural and non-structural measures); and (v) support implementation of the selected pilot(s) structural and/or non-structural measures through the preparation of detailed designs, technical specifications, and Bills of Quantity (BoQ). The pilot(s) may involve, for example, a combination of the construction of a DEWATS, drainage improvement and flood alleviation measures, and other associated urban improvements such as construction of walkways and maintenance access, boundary demarcation, and urban greening.

The expected key outcomes are: (i) increased awareness, technical understanding, and active cooperation among key stakeholders about the ecosystem services provided by the wetlands and the need for local communities to be responsible for operation and maintenance (O&M) of the eventual pilot and other facilities as agreed with local authorities and local communities (LA/LC); (ii) sustainable use and management of the wetlands for flood risk management, livelihood enhancement, and tourism, as part of a city-wide SUDS and roles of LA/LC on O&M of the systems; (iii) formulation of investment plans (structural and non-structural measures) for SUDS, flood risk management, and wetlands restoration in Luang Prabang; and (iv) preparation of key technical documents to allow future implementation of the pilot infrastructure in the target areas. The need for land acquisition and/or relocation of private assets should be avoided as much as possible, and consultation with the World Bank's safeguards specialists is highly recommended when this issue may be involved. The TA calls for undertaking the following tasks:

- **Task 1-1:** Preliminary review and inception
- **Task 1-2:** Rapid appraisal of key infrastructure and services
- **Task 1-3:** Scoping of Pilot Measures, Strategy and Action Plans, Feasibility Study, and Preliminary Design
- **Task 1-4:** Environmental and Social Impact Assessments (ESIA) / Cultural Heritage Impact Assessment (CHIA) for Pilot
- **Task 1-5:** Detailed Design (drawing and Report) and Technical Specifications and Bills of Quantity (BOQ)

5.3 Study on Flood Risk Assessment (\$2,000,000, AF /C04)

The TOR for this study has been finalized (see Annex 5B) and procurement of a consulting firm (QCBS) is on-going and expected to be completed by end of 2023. The study cover Vientiane Capital (VTE) and Paksan city (PXN) in BKKX province. The study aims to establish the evidence base to identify priority areas for investment, with an emphasis on resilient and inclusive urban design and a balance of structural (i.e. hard-engineered (or grey) and nature-based (or green) solutions, including Sustainable Urban Drainage System or SUDS) and non-structural solutions. For VTE, a Feasibility Study and Preliminary Design will be prepared for the Highest Priority Drainage Investment identified. For PXN recommendations will be made for the future design of the highest priority flood risk management works identified.

Scope of the service comprises the key tasks: Task A: Development of Integrated Urban Flood Risk Management Strategies for VTE and PXN; Task B: Flood Hazard, Risk Mapping and Analysis through Modelling for for VTE and PXN, and Task C: Feasibility Study and Preliminary Designs for the Priority Drainage Investment in VTE. The Consulting Services are expected to be carried out for 14 months, with as estimated 38 staff-months for internationally-experienced staff (with relevant experience in Lao PDR or developing countries with comparable profiles), and 50 staff-months for nationally-experienced staff (with extensive experience in Lao PDR and deep knowledge of the local context). The expected start date for this Assignment is likely to be in late 2023.

5.4 TA for water ways infrastructure management system (WIMS), Software, Training, Fieldworks (\$200,000, AF/C06).

This TA aims to ensure achievement of the project indicator on “Number of provinces for which GIS Data on embankment condition and disaster vulnerability has been integrated and input into an IT-based water ways asset management system for riverbank protection (Number: 3 for ODX, LPB, and BKX and/or VTE”. The DOW proposed to hire national geographic and GIS engineering and the TOR is under discussion.

5.5 Safeguard Activities for Component 1.3

PMU has provided financial support to PTI, PIU, and SMWG to performance their safeguard functions including hiring the NSC to assist PMU, PTI, and SMWG during the planning, monitoring, and reporting. Contractor costs has been included in the contractor construction cost while the costs for day-to-day supervision and monitoring of contractor performance by the CSCs have also been included in the CSC contract. This arrangement will be continued during 2024-2025, with an expectation that additional cost for implementation of safeguard activities to implement O-ESMP of the facilities for the ODX, LPB, and BKX subprojects will be required during 20024-2025 and details will be discussed with WB during the next mission. In light of an indicative safeguard work plan (also see Annex 6).

5.6 O-ESMP implementation, LA/LC engagement and capacity building of DPWT

Given that part of ODX facilitates have been completed it is necessary to implement the measures to mitigate impacts during operations especially those related to solid and liquid waste management, safety operation of the movable weir, rehabilitation of large spoil disposal and monitoring of the river bank profile upstream and downstream of the subproject facilities during the next 6 months so that the implementation can begin in mid2024. Implementation of these activities will require close cooperation with local authorities and local communities (LA/LC). Priority activities are discussed in Chapter 6.

CHAPTER 6. NEXT STEPS

Table 6-1 presents priorities for the safeguard activities to be implemented and/or monitored by PMU, PTI, and the NSC during October 2023 to end of March 2024. Key activities will include, but not limited to, the following: (i) To provide training to ensure effective implementation and monitoring of the ESMP during construction stage (C-ESMP) and operational stage (O-ESMP) for Lot 2 ODX, LPB, and BKX sub-projects; (ii) to implement and monitor the RAP/ARAPs for Lot 2 ODX, LPB and BLX; (iii) to initiate the implementation of EGEP with active involvement of women in the ODX; and (iv) to complete the planning and implementation of measures to mitigate impacts during operations through community engagement and consultation. Efforts will be made to address the issues related to solid and liquid waste management, safe water uses and safety operations of the movable weir (for ODX), monitoring of river bank profile and erosion risk, and rehabilitation of the final disposal sites to avoid generation of dust and PM 2.5.

Experience during implementation and monitoring of safeguard performance at subproject and Project level suggested that achievement of the agreed actions during the WB mission is important and they will be implemented with high priority. In addition, to comply with the RAPs, ESMPs, and ECCs obligations, other safeguard measures especially those related to safety during construction and those related to water management, and river bank erosion, and other measures during operations of the subproject activities will also be implemented soonest.

In this context, implementation of the agreed actions during the WB mission in July and October 2023 and priority for implementation of the O-ESMP are considered during the preparation of the safeguard activities to be implemented during the next 6 months (October 2023 – March 2024) as presented in Table 6-1. Below identify priority safeguard activities to be implemented during 2024-2025. Details will be discussed with WB in early 2024 or during next mission.

For ODX subproject, the province has already issued an order on restriction/ prohibition for public access to all project construction sites including those located in the Nam Kor-Nam Mao Rivers.

- Completion of the agreed actions and other safeguard activities identified during the WB mission in October 2023;
- Approval of the C-ESMP amendment for ODX (Lot2) taking into account WB comments on safety measures for the new borrow pit, including completing consultation with LA/LC on safety (construction sites, roads, and waterways) and other safeguard aspects;
- Effective and timely monitoring of the C-ESMP implementation, especially those related to the safeguard corrective action plan and strengthening safety of the new borrow pit and key subproject site including provide training by CSC; and
- Deepening and accelerating the implementation of O-ESMP activities, especially those related to (a) the river bank erosion and monitoring of river bank profile including possible implementation of pilot activities to apply soft measures to mitigate/stabilize river bank erosion, (b) development of waste management by LA/LC, and (c) measures to ensure safety of the movable weir operations.

For LPB subproject, the following actions will be as follows:

- Completion of agreed actions and other safeguard activities identified during the WB mission in June-July and follow-up discussion;

- Approval of the C-ESMP for LPB taking into account UNESCO and WB comments, including completing consultation with LA/LC on safety (construction sites, roads, and waterways) and other safeguard aspects;
- Effective and timely monitoring of the C-ESMP implementation including provide training (by PTI, CSC) and strengthening safety measures at all subproject sites; and
- Initiate the implementation of O-ESMP activities, especially those related to (a) the river bank monitoring profile and implementation of a pilot activities to apply soft measures as suggested by UNESCO and (ii) development of waste management by LA/LC. PTI will also work closely with PIU and the SMWG to ensure that all construction sites will be assigned for safety zone and public access is restricted/prohibited.

For BKX subproject, the following actions will be as follows:

- Completion of agreed actions and other safeguard activities identified during the WB mission in June-July and follow-up discussion on safety;
- Approval of the C-ESMP amendment for BKX taking into account WB comments, including completing the consultation with LA/LC on safety (sites, roads, and waterways) and other safeguard aspects;
- Effective and timely monitoring of the C-ESMP implementation including provide training by CSC and strengthening safety measures at all subproject sites, especially in the Mekong River; and
- Deepening the implementation of O-ESMP activities (by PIU/PTI), especially those related to the river bank monitoring profile and implementation of a pilot activities to apply soft measures for river bank protection (if possible), and development of waste management by LA/LC. PTI will also work closely with PIU and the SMWG to ensure that all construction sites will be assigned for safety zone and public access is restricted/prohibited.

Table 6.20: Key safeguard activities to be conducted during the next 6-months (October 2023 to March 2024)

No	Key Activities	Due Date	Responsible
❖ Oudomxay (ODX) Subproject			
1	Safeguard corrective actions monitoring (Table 2-10). As proposed (as part of the ESIRT process), the activities proposed in Table 2-10 will be updated/consolidated to ensure effective and timely implementation and monitoring of site safety focusing on daily safety (OHS, CHS) measures that have been established as proposed in the ESIRT process including road safety, site safety control (per the site safety map), site safety barricades and warning signs; assignment of guard men/flagmen, site patrolling if necessary during night time in collaboration with the local communities, safe driving and safety at work and on-site monitoring of local people access to the construction site, and close supervision of the CSC (at least once a month) in collaboration with SMWG and the local communities and PTI, PMU, NSC. The CSC (ISAN/LTEC) will closely monitor the implementation progress and include the results in the CSC safeguard monitoring reports to be submitted to PMU/PTI per the	Oct 2023 – Mar 2024 and continued throughout the contract	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU

	agrees time frame. Actions related to awareness raising in nearby schools and markets and LA/LC is identified below.		
2	Awareness raising activities on safety during construction: conduct additional awareness raising among 10 village heads and request them to announce using the local speaker system and local radio at least 1-2 times per week to request community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities, and do not enter to the construction sites (rivers) (ii) conduct additional awareness raising with nearest schools and market; and (iii) provide refresher training to the Project Safeguards Monitoring Working Group (SWMG) on Environmental and Social Management Plan (ESMP) measures with emphasis on Community and Occupational Health and Safety measures.	Oct 2023 – Mar 2024 to end of 2024	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
3	C-ESMP updated to improve clarity and effectiveness of the mitigation measures during construction especially those related to safety of the new borrow pit, OHC, CHS, and results from monitoring of the C-ESMP implementation including improving quality of the CSC safeguard implementation reports. The update will also consider practical ways to address safety issues (site, roads and waterways) and it will be conducted in close consultation with LA/LC and the WB. The update will be made in close consultation with WB.	Oct 2023 – Mar 2024	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU/WB
4	Capacity building and implementation of O-ESMP. With the leadership of PIU/SMWG and in close consultation with local authorities and local communities (LA/LC), complete a plan to implement the O-ESMP aiming to address the following issues (a) solid waste and wastewater management; (b) safety operations of the subproject facilities including operations of the movable weir, monitoring of river bank profile upstream and downstream of the facilities and possible piloting the application of soft measures for erosion control; and (c) rehabilitation of large spoil disposal sites to avoid generation of dust and PM2.5 and also measures to address climate change impacts. The activities should begin to implement in Q3 2024 to end of 2025.	Oct 2023 – Mar 2024.	SMWG, PTI, PIU, NSC and LA/LC
❖ Luang Prabang (LPB) Subproject			
1	Ensure safety (OHS, CHS) during construction at all subproject sites , focusing on OHS and CHS aspect including effective monitoring and reporting by CSC and SMWG in line with the C-ESMP approved by PMU. The CSC will submit the safeguard implementation progress according to the scope and time agreed with PMU/PTI and/or WB	Oct 2023 – Mar 2024 and be continued to end of the contract	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
2	Ensure road/waterways safety during implementation of the road and waterways during transportation of construction materials. If need safety risk assessment	Oct 2023 – Mar 2024 and be continued to	CSC, contractor in close consultation with

	will be conducted to identify locations with high CHS risk (hot spots) in the subprojects especially at Nam Khan-Mekong River area and those related to the river side park taking into account UNESCO comments and suggestion. <i>Details will be included in the updated C-ESMP being prepared as an amendment of the existing C-ESMP (see below).</i>	end of the contract	NSC, PIU, PTI, and PMU
3	Awareness raising activities: conduct additional awareness raising with four (4) village heads and request them to announce in the local speaker system and local radio at least 1-2 times per week to request community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities and do not enter to the construction sites (on land and rivers) (ii) conduct additional awareness raising with the nearest schools and market; and (iii) provide refresher training to the Project Safeguards Monitoring Working Group (SMWG) on Environmental and Social Management Plan (ESMP) measures with emphasis on Community and Occupational Health and Safety measures.	Oct- 2023- Mar 2024	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
4	Approval of the C-ESMP amendment. Given the need to strengthen safeguard implementation, motoring, and reporting, as suggested by WB, and the CSC/contractor proposal to change the transportation route of the construction materials to minimize negative impacts on the LPB-WHCZ, the CSC and contractor are updating the C-ESMP taking account the WB comments on the needs to improve safety of the road and waterways.	Oct 2023 - Mar 2024	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU/WB
5	Capacity building and implementation of O-ESMP. With the leadership of PIU/SMWG and in close consultation with local authorities and local communities (LA/LC), complete a plan to implement the O-ESMP aiming to address the following issues (a) solid waste and wastewater management; (b) safety operations of the subproject facilities including monitoring of river bank profile upstream and downstream of the facilities and possible piloting the application of soft measures for erosion control as suggested by UNESCO; and (c) rehabilitation of large spoil disposal sites to avoid generation of dust and PM2.5 and also measures to address climate change impacts. The activities should begin to implement in Q3 2024 to end of 2025.	Oct 2023 – Mar 2024	PTI and PIU and CSC
❖ Bolikhamxay (BKX) Subproject			
1	Ensure safety (OHS, CHS) during construction at all subproject sites, focusing on OHS and CHS aspect including effective monitoring and reporting by CSC and SMWG in line with the C-ESMP approved by PMU. The CSC will submit the safeguard implementation progress	October 2023- March 2024 and continued until the end of the contract	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU

	according to the scope and time agreed with PMU/PTI and/or WB		
2	Ensure road/waterways safety during implementation of the road and waterways during transportation of construction materials to Site 1 and Site 2. If need safety risk assessment will be conducted to identify locations with high CHS risk (hot spots) in the subprojects area along the Mekong River. <i>Details will be included in the updated C-ESMP being prepared as an amendment of the existing C-ESMP (see item 4 below).</i>	Oct 2023 – Mar 2024 and be continued to end of the contract	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
3	Awareness raising activities: conduct additional awareness raising with three (3) village heads and request them to announce in the local speaker system and local radio at least once or twice a week to request community and the public for ownership and good collaboration such as educating and taking care of their kids on safe driving, do not damage the projects sign board, warning signs and safety facilities and do not enter to the construction sites (rivers) (ii) conduct additional awareness raising with the nearest schools and market; and (iii) provide refresher training to the Project Safeguard Monitoring Working Group (SWMG) on Environmental and Social Management Plan (ESMP) measures with emphasis on Community and Occupational Health and Safety (COHS) measures.	Oct-2023 – Mar 2024 and continued until the end of the contract	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
4	Approval of the C-ESMP amendment. Given the need to strengthen safeguard implementation, monitoring, and reporting, as suggested by WB, the CSC and contractor are updating the C-ESMP taking account the WB comments on the needs to improve safety of the roads and waterways, including transportation of staff from the work camp at Site 1 to Site 2.	Oct 2023 - Mar 2024	CSC, contractor in close consultation with NSC, PIU, PTI, and PMU
5	Capacity building and implementation of O-ESMP (BKK). With the leadership of PIU/SMWG and in close consultation with local authorities and local communities (LA/LC), complete a plan to implement the O-ESMP aiming to address the following issues (a) solid waste and wastewater management; (b) safety operations of the subproject facilities including monitoring of river bank profile upstream and downstream of the facilities in the Mekong river; and (c) rehabilitation of large spoil disposal sites to avoid generation of dust and PM2.5 and also measures to address climate change impacts. The activities should begin to implement in Q3 2024 to end of 2025.	Oct 2023 - Mar 2024	PIU/SMWG, NSC, PTI, and PMU in close consultation with LA/LC
	Components 1.2 and 1.3		
1	Actively engage in the TAs during supervision of the on-going activities to ensure that safeguard activities are appropriately integrated into the activities and key outputs, especially those TA related to the wetland restoration in LPB and flood study in VTE and BKK.	Oct 2023-March 2024	PMU, PTI, NSC
2	Submit the 4 th Environment and Social Management Report (ESMR) covering October 2023 to March 2024 for DRM-C1 of the three provinces (ODX, LPB & BLX) to the WB for review and approval	End of March 2024 (before next mission)	PMU, PTI, NSC

3	Finalize AWPB for 2024 and 2025 taking into account the need to implement the O-ESMPs of the subprojects in ODX, LPB, and BKX, including capacity building of LA/LC	Oct 2023-March 2024	PMU, PTI, NSC
---	---	---------------------	---------------

Annexes (Volume 2)

- Annex 1A. General Plan for the total works (Lot 1 and Lot 2)
- Annex 1B. Law on Waterways (2022)
- Annex 2A. ODX -Map/photos on construction area & GRM boxes
- Annex 2B. ODX -Map/photo on site barricades & warning signs
- Annex 2C. ODX -UXO Certificate (Lot1 and Lot 2) and NRA [letter](#)
- Annex 2D. ODX -Existing Condition of the Construction Sites
- Annex 2E: ODX -Map of all Disposal Area LOT-2
- annex 3A. CSC-TOR for LPB and BKX Subprojects
- Annex 3B. LPB-UXO Certificate & Environmental Compliance Certificate (ECC)
- Annex 3C. LPB -Agreement on Selection of Borrow Pit & Disposal Area
- Annex 3D. LPB -Map of Disposal Area
- Annex 3E. LPB -Locattion of the River Profile Monitoring (baseline)
- Annex 4A. BKX -UXO Coertificate & ECC Certificate
- Annex 4B. BKX -Location of Disposal Area & Agreement of Land Owner
- Annex 4C. BKX -Map showing safety signs on land and in Mekong River
- Annex 4D. BKX-Location of the River Profile Monitoring (baseline)
- Annex 5A. Final TOR for the Wetland Study
- Annex 5B. Final TOR for the Flood Management Study
- Annex 6. Annual Work Plan 2024 for ODX, LPB, and BKX Subprojects