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MINISTRY OF WATER RESOURCES AND METEOROLOGY

**Climate Adaptive Irrigation and Sustainable Agriculture for
Resilience Project**

**ENVIRONMENTAL, SOCIAL AND CLIMATE
MANAGEMENT FRAMEWORK**

February 19, 2024

ACKNOWLEDGEMENTS

The CAISAR project is composed of six command areas (sub-schemes) – Ou Ta Paong, in Pursat Province, Lum Hach, in Kampong Chhnang Province, Brambei Mon, Krapeau Trom, Yutasas and Steung Krang Bat (in Kampong Chhnang, Kampong Speu and Kandal Provinces). This ESCMF report was submitted by the Cambodia Ministry of Water Resources and Meteorology (MOWRAM) (Accredited Entity) for GCF financing under the CAISAR project. The report was prepared by Ron Livingston (CAISAR SECAP Team Leader) with key inputs from Tuan Anh Le (CAISAR SECAP Gender and Social Safeguards Expert); Sopheak Kong (CAISAR SECAP National Deputy Team Leader) and Soheat Penh (CAISAR SECAP National Environmental Expert under the overall guidance of his H.E. Chann Sinath, MOWRAM AIIB Project Director; Ms. Bo Zhang, CAISAR Project Team Leader, Investment Operations Officer, AIIB; and Mr. Frew Behabtu, Country Director for Cambodia, IFAD.

The ESCMF report should be read in conjunction with the other safeguards documents, including standalone documents such as Stakeholder Engagement Plan (SEP), Gender Assessment & Social Action Plan (GASIP), and Environmental, Social, Climate Impact Assessment (ESCIA, covering six sub), and the Indigenous Peoples Planning Framework (IPPF, Annex 14) and Land Acquisition & Resettlement Planning Framework (LARPF, Annex 15) of this document. During project preparation, Environmental, Social, Climate Management Plans (ESCMP) have been prepared for three out of 6 sub-schemes, including Ou Ta Paong, Krapeau Trom, and Yutasas sub-scheme. During project implementation, Environmental, Social, Climate Management Plans (ESCMP) will be prepared for the remaining three sub-scheme including Lum Hach, Brambei Mon, and Steung Krang Bat.

Assessment of environmental and social risks and impacts, both inherent and project-related, was based on supporting background reports, desk reviews of literature and similar projects, and extensive consultation during the project design. Many consultations with National, Provincial and District agencies and community members in project communes have been undertaken on the various aspects of the CAISAR project. The first round of consultations specific to the ESCMF were conducted during June 2023. We are grateful to the focal points of four project provinces who worked hard to support the introduction of the planned projects and discussions on the planned objectives, outcomes and benefits. Without their commitment and active support in leading the extensive consultation effort, the consultations would not have been possible.

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ABBREVIATIONS

4P	Public–Private–Producer Partnership
AIIB	Asian Infrastructure Investment Bank
AVC	Agricultural Value Chain
BAU	Business-as-usual
CFM	Community Forest Management
CIG	Community Interest Group
COVID-19	Severe Acute Respiratory Syndrome Coronavirus 2
EM	Ethnic Minority
ESMP	Environmental & Social Management Plan
ESS	Environmental & Social Standards
FA	Farmers Association
FC	Farmers' Cooperative
FAO	Food and Agriculture Organization of the United Nations
FLA	Forest Land Allocation
FGD	Focus Group Discussion
FHH	Female-Headed Household
FPIC	Free, Prior, Informed Consent
FWUC	Farmer Water Users Community
GASIP	Gender Action and Social Inclusion Plan
GCF	Green Climate Fund
GBV	Gender Based Violence
GRM	Grievance Redress Mechanism
HHS	Household Survey
IEC	Information, Education and Communication
IFAD	International Fund for Agricultural Development
IPP	Indigenous Peoples' Plan
KII	Key Informant Interview
MOWRAM	Ministry of Water Resources and Meteorology
NDC	Nationally Determined Contribution

NTFP	Non-Timber Forest Products
OCOP	One Commune, One Product
OHS	Occupation Health and Safety
PFES	Payment for Forest Environmental Services
PMU	Project Management Unit
SDP	socio-economic development planning
SEA/SH	Sexual Exploitation and Abuse/Sexual Harassment
SECAP	Social, Environmental, and Climate Assessment Procedures
SEP	Stakeholder Engagement Plan
PMU	Project Management Board
VAC	Violence Against Children

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EXECUTIVE SUMMARY

1. **Project Rationale:** The CAISAR project covers a total command area of 45,000ha and is composed of six command areas (sub-schemes). – Ou Ta Paong, in Pursat Province, Lum Hach, in Kampong Chhnang Province, Brambei Mon, Krapeau Trom, Yutasas and Steung Krang Bat (in Kampong Chhnang, Kampong Speu and Kandal Provinces). The project objective is to improve agriculture productivity by providing irrigation and flood protection in the project areas. The project design is to increase climate adaptation, mitigate the negative impact of extreme climate events, and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces of Cambodia (Pursat, Kampong Chhnang, Kampong Speu, and Kendal). Mitigation is a co-benefit of this adaptation project, as it will also contribute to reduce GHG emissions, including methane emissions from rice fields. These objectives will be achieved by implementing three components that aim at addressing climate change vulnerabilities, increasing agriculture productivity, and developing institutional capacities. The investments to be implemented will (i) combine robust climate-resilient water management and agricultural practices at the farm level, (ii) establish climate-proofed irrigation and flood control infrastructure and (iii) develop institutional capacity to plan, maintain and operate irrigation and flood control infrastructure in a changing climate context. The CAISAR project has a broad positive impact benefitting 120,000 households (500,000 rural people) directly while its effect will propagate to over 3 million people in the region. The project will be executed through the Ministry of Water Resources and Meteorology (MOWRAM) and the National Committee for Sub-National Democratic Development Secretariat (NCDD-S), a Direct Access Accredited Entity to the GCF. The expected timelines for the approval of the co-financing by IFAD and AIIB Executive Boards are respectively June 2025 and February 2025, with the inception of the project is expected to take place in December 2025.

2. **Methodology for Risk Categorization:** Project-related and inherent environmental, social, and climate risks were determined by: (i) screening the project activities against the International Fund for Agricultural Development's (IFAD's) Social, Environmental, and Climate Assessment Procedures (SECAP) requirements, the AIIB's Environmental & Social Framework (ESF), and the Green Climate Fund's (GCF's) Environmental & Social Policy; (ii) considering the findings of desk research on risks associated with similar projects and relevant background papers; and (iii) incorporating findings from the first round of ESCMF stakeholder consultations and previous stakeholder engagement efforts in the form of household surveys (630 households in total), 100 focus group discussions, and 100 key informant interviews. Numerous missions to the project areas and discussions with provincial and district agencies and communes enhanced understanding of project objectives.

3. The initial SECAP review identified patterns of existing issues inherent to the project area which could increase risk to the project, its personnel, and/or beneficiaries. Additional desk research highlighted further areas of potential inherent risk and lessons-learned from other projects. The screening of CAISAR project activities, together with the ESCMF stakeholder meetings, household survey responses, focus group discussions, key informant interviews, and field visits with consultations provided insight on the latest conditions which could affect the success of the project and the potential project-specific impacts (both positive and negative).

4. **Framework Approach:** Given that site locations for project implementation have not been finalized, the design team agreed to use a framework approach consistent with IFAD's SECAP and GCF's ESS. Documentation is based on the format typically provided for a GCF project, rather than the typical IFAD SECAP note format, to simplify the approval process. This was agreed upon with AIIB and IFAD headquarters prior to development of this ESCMF.

5. **Project Impacts & Inherent Risks:** The safeguards categorization for CAISAR is high for both social and environmental impacts and risks. To address issues of climate-induced risks and impacts, the CAISAR project will apply several climate resilience measures and adaptation strategies including climate-informed planning, integrated water resources management, efficient irrigation practices, water storage and reservoir management, ecosystem-based approaches, early warning systems, climate-resilient

infrastructure, capacity building and awareness, stakeholder engagement and participatory approaches, and monitoring and evaluation. These measures will be financed under the project, as the project explicitly targets climate mitigation and adaptation by design.

6. **Key social impacts to be considered as part of the ESCIA** include: (i) potential contraction of diseases (e.g. sexually transmitted diseases such as HIV/AIDS, and/or other communicable diseases) due to labor influx; (ii) potential conflict with local communities due to construction workers who work and stay near the community; (iii) potential labour-related accidents for persons hired by the project construction companies to support seasonal construction work; (iv) gender based violence and/or sexual harassment and abuse (e.g. verbal and physical abuse, sexual harassment, violence against children) due to the influx of labour; (v) child labour/age inappropriate work, (vi) forced labour (e.g. coerced to work through the use of violence/intimidation, or by more subtle means such as debt manipulation, retention of identity papers, or similar threats); (vii) possible social exclusion (due to vulnerability, land tenure issues, disability, etc.); and (viii) lack of contract for EM workers, particularly for seasonal works of less than one month's duration.

7. The above risks to be evaluated as part of the ESCIA are not considered to be serious in nature and mitigation measures will be included in the ESCMP. General mitigation measures are provided within Chapter IV of this Environmental, Social and Climate Management Framework (ESCMF) (See more in the Summary Table next page).

8. **Key environmental impacts to be considered as part of the ESCIA include:** The project is expected to have largely positive environmental impacts, including improved ecosystem services, soil fertility/soil health, forest health, and natural resources management. Potential negative environmental impacts to be mitigated include are related to small-scale infrastructure (e.g. construction/repair of small-scale rural roads, irrigation channels, small-scale reservoirs, etc.). These impacts may include: (i) erosion and run-off to water bodies during earthworks/construction; (ii) temporary traffic blocks and related safety issues during construction and operation; (iii) temporary pollution from construction (e.g. dust, noise, vibration, waste & wastewater generation from workers' campsites); (iv) potential water pollution from sourcing aggregates/construction materials (soil, gravels); and (v) increased water consumption. Additional environmental risks (not explicitly linked to construction activities) include: (i) presence of unexploded ordinances (UXOs) at project sites (an inherent risk listed below); and (ii) increased use of pesticides due to crop intensification/improved crop yields. As with the social risks and impacts, mitigation measures for the environmental risks and impacts are provided in Chapter IV of this ESCMF (See more in the Summary Table next page).

Risks & Impacts	Design phase	Construction phase	Operational phase
A. IDENTIFICATION & ASSESSMENT OF RISKS AND POTENTIAL IMPACTS			
ENVIRONMENTAL RISKS AND IMPACTS	<ul style="list-style-type: none"> Land Use Changes: The design that cause conversion of land for project purposes may alter local land use patterns, impacting agricultural and forestry activities. 	<ul style="list-style-type: none"> Biodiversity Degradation and Habitat Destruction: Construction activities can result in the direct destruction of natural habitats, including wetlands, forests, and aquatic ecosystems. New irrigation systems may fragment habitats, resulting in new risks to flora or fauna. Temporary changes in river flow or stagnant water bodies may occur. A need for borrow materials and disposal of dredging materials also have potential risks and impacts to biodiversity and environment. Vegetation Clearance: Clearing land for construction can lead to habitat destruction and loss of biodiversity. Land clearing should be carefully planned and managed. Soil Erosion and Sedimentation: Excavation, grading, and land clearing can increase soil erosion or riverbank erosion, leading to sedimentation in nearby water bodies, affecting water quality and aquatic ecosystems, (plausibly) increasing or influencing flood risk, and exacerbating riverbank erosion. If materials for construction (sand, gravel) are excavated from sensitive locations, this can exacerbate river erosion or change water course – ultimately impact floods and contributing to uncertainty in flood forecasting models. Water Pollution: Construction machinery, equipment, and runoff from construction sites can introduce pollutants, such as sediment, oil, and chemicals, into nearby water bodies. Noise and Air Pollution: Construction activities generate noise pollution and emissions from heavy machinery, impacting local air quality and disturbing wildlife. Resource Consumption: If construction materials, water, and energy are consumed in large quantities, this could result in resource depletion and increased carbon emissions. Waste Management – Waste generation from construction activities and campsite can potentially impacts on water quality and aquatic resources if not properly managed. All wastes shall be managed properly and disposed at the 	<ul style="list-style-type: none"> Increasing Demand on Water Extraction: Inadequate water management during operations can lead to over-extraction of water resources, which may cause downstream water scarcity, altered hydrology, and harm to aquatic ecosystems. Upstream developments (water use for agriculture and industries, deforestation and degradation) can affect the quality and quantity of water available in the project area. Change in Water Quality and Nutrient Flow: The irrigation system's operations can affect water quality, with potential risks of contamination from agricultural runoff, pesticide use, or improper wastewater disposal. The system may also disrupt natural nutrient cycling and aquatic resources. Erosion and Sedimentation: Ongoing maintenance and operation activities can contribute to soil erosion and sedimentation in water bodies, impacting water quality and aquatic habitats. Improperly planned irrigation systems can worsen flooding or sedimentation risks resulting in loss of lives, livelihoods (crop, livestock) and assets; it can also make flood modeling by adding elements of uncertainty. Invasive Species: Poorly managed water flows can facilitate the spread of invasive aquatic species in different environments from upstream, potentially harming native ecosystems. Increasing demand on Energy Use: The energy requirements for pump stations and flood control systems can result in increased carbon emissions if not managed efficiently. There is embedded carbon emissions (from energy use) in materials used for irrigation system construction (cement, steel). At the farm level, there will be some reduction in GHG emissions when farmers are encouraged and supported to switch to solar irrigation – instead of using diesel generators. Waste Management: Increasing water storage capacity and accessibility can increase frequency of cultivation in the command area. As consequence, it let to increase in using chemical fertilizers and pesticide. Wastes from chemical and pesticide uses are hazardous waste, which is required safe disposal at the safe/approved dumping

Risks & Impacts	Design phase	Construction phase	Operational phase
		safe/approved dumping site by the local authority.	site by the local authorities/provincial department of Environment. Poor baseline solid or liquid waste management practices may result in unsafe water being used for irrigation (or domestic use).
	○	○	○
SOCIAL RISKS AND IMPACTS	<ul style="list-style-type: none"> ○ Economic Impacts and Land Acquisition issue: The project will have potential impacts on people's livelihood and land tenure if the design have been proposed on the new alignment and/or outside the right of way of the irrigation. The process of acquiring land for the project can disrupt local communities, potentially leading to land tenure issues and conflicts. ○ Livelihood Disruption: Even before construction starts, the anticipation of project impacts can disrupt local livelihoods as residents may alter their activities or move. ○ Community Concern: Site visits of the project team may lead to community concern about the potential impacts from the project specially among people in downstream. Engaging with local communities during the pre-construction phase is critical to understanding their concerns and needs, helping to design mitigation measures as well as to disseminate the right messages and expected risks and impacts from the project activities in both negative and positive. 	<ul style="list-style-type: none"> ○ Physical and Economic Displacement: The construction activities may potentially impacts on movable structures and crops of the local people who encroach the public land in the right of way of the irrigation. However, the impacts are minor and temporary. The designs have been mainly proposed on the existing alignment. ○ Traffic and Access Disruption: Increased construction-related traffic can disrupt local transportation networks, impacting communities and businesses along transportation routes. ○ Health and Safety: Construction sites pose health and safety risks to workers and nearby communities. Accidents and exposure to construction-related hazards can have serious consequences. ○ Chance Finds for Cultural Heritage: Construction activities and in migration of labor may threaten cultural heritage sites or disrupt local traditions and practices, leading to social and cultural impacts. ○ Gender Inequities – Potential inequities and lack of project opportunities and benefits due to labor influx from outside the local community. 	<ul style="list-style-type: none"> ○ Land Use Conflicts: Conflicts over water allocation and land use may arise among competing stakeholders, such as farmers, leading to disputes and social tensions. ○ Access to Water: Unequal access to water resources during the operations phase can exacerbate social inequalities, impacting vulnerable communities and livelihoods. ○ Health and Safety: Ongoing maintenance and operations work can pose health and safety risks to workers and nearby communities, particularly if safety measures are inadequate. ○ Water conflict: Limited capacity and lack of financial support (from water collection fees) for ensuring the smooth and accountable water coordination and allocation can lead to have water conflict among people in upstream and downstream. Maintaining effective communication and engagement with local communities is crucial to address their concerns and ensure the equitable distribution of benefits. ○ Gender Inequities – Potential inequities and lack of project opportunities and benefits.
CLIMATE RISKS AND IMPACTS	<ul style="list-style-type: none"> ○ Climate Data Analysis: It's important to analyze historical climate and hydrology data during the design phase to identify climate-related risks that may affect project design and location. ○ Future Climate Projections: Understanding future climate projections, such as changes in rainfall patterns or increased frequency of extreme weather events, can inform the project's design for resilience. ○ Adaptation Planning: Design phase should involve design and planning for climate change adaptation measures, ensuring the project can withstand anticipated climate impacts. Floods have historically destroyed roads, irrigation canals and drainage 	<ul style="list-style-type: none"> ○ Climate-Related Disruptions: Extreme weather events, such as heavy rainfall or flooding, can disrupt construction activities, leading to delays and increased costs. ○ Water Management: Managing water resources during construction, including temporary diversion of rivers or drainage, can impact local hydrology and potentially lead to downstream flooding. <ul style="list-style-type: none"> ○ Infrastructure Vulnerability: The construction phase may expose infrastructure to climate risks, such as flooding or storm damage, if proper precautions and design considerations are not taken into account. 	<ul style="list-style-type: none"> ○ Climate Variability: Changes in rainfall patterns, increased temperature, or more frequent extreme weather events can affect water availability and the effectiveness of flood protection systems. Farmers may be reluctant to adopt intermittent flooding practices (alternate wetting and drying) if there is uncertainty in availability of irrigation water. ○ Extreme Events: The irrigation and flood protection infrastructure must be resilient to withstand extreme weather events, including floods, droughts, and storms. ○ Maintenance Challenges: Climate-related impacts, such as increased sedimentation or infrastructure damage from extreme events, can pose challenges for ongoing maintenance and operations. ○ Energy Efficiency: Climate mitigation efforts should focus on optimizing embedded energy use in farm operations

Risks & Impacts	Design phase	Construction phase	Operational phase
	<p>structures, design appropriate design for high floodwater flow / excessive sedimentation is critical.</p> <ul style="list-style-type: none"> ○ Data Collection: Establishing baseline data on environmental conditions, community demographics, and climate variables during the design phase is crucial for monitoring and evaluation throughout the project's lifecycle. 		<p>(e.g., integrated fertilizer management, reduce straw burning) and transitioning to cleaner energy sources (e.g., solar irrigation instead of diesel generators) to reduce greenhouse gas emissions associated with ongoing operations.</p> <ul style="list-style-type: none"> ○ Adaptive Management: The operations phase should include adaptive management strategies to respond to changing climate conditions and ensure infrastructure remains effective. ○ Community Resilience: Local communities will require support to build resilience to climate-related risks, such as training in climate-smart agriculture or flood preparedness. ○ Water Management: Climate-related changes may necessitate adjustments in water management practices to ensure sustainable and equitable water distribution.

B. MITIGATION MEASURES

ENVIRONMENTAL RISKS AND IMPACTS	<ul style="list-style-type: none"> ○ Habitat Assessment and Preservation: <ul style="list-style-type: none"> - Conduct a detailed habitat assessment and implement measures to preserve critical habitats, such as wetlands and forests, by avoiding or minimizing construction within these areas. ○ Sustainable Land Use Planning: <ul style="list-style-type: none"> - Work with local authorities and communities to develop land use plans that minimize negative impacts on agriculture and forestry. 	<ul style="list-style-type: none"> ○ Habitat Protection and Restoration: <ul style="list-style-type: none"> - Establish construction exclusion zones around sensitive habitats to prevent disturbance. - Implement habitat restoration programs in areas where construction has occurred. ○ Erosion and Sediment Control: <ul style="list-style-type: none"> - Install erosion control measures such as silt fences, sediment basins, and check dams to prevent soil erosion. - Implement best management practices for construction site runoff, including sediment ponds. ○ Water Pollution Control: <ul style="list-style-type: none"> - Properly manage construction chemicals, fuels, and waste to prevent water pollution. - Use environmentally friendly construction materials and techniques to reduce the risk of pollution. ○ Noise and Air Pollution Management: <ul style="list-style-type: none"> - Implement noise barriers and schedule noisy activities during non-sensitive hours. - Ensure construction equipment meets emissions standards and maintain equipment properly. - Spraying water to reduce dust. ○ Resource Efficiency: <ul style="list-style-type: none"> - Reduce resource consumption by optimizing 	<ul style="list-style-type: none"> ○ Sustainable Water Management: <ul style="list-style-type: none"> - Implement efficient water management practices to prevent over-extraction and ensure equitable water distribution. Water use management – could describe the aim / their role in sustainable water use - Monitor water quality regularly and implement measures to reduce contamination, such as the responsible use of pesticides and proper wastewater treatment. ○ Erosion and Sedimentation Control: <ul style="list-style-type: none"> - Develop and implement erosion control measures to minimize soil erosion and sedimentation in water bodies. - Regularly maintain sediment basins and silt fences to manage sediment runoff. ○ Invasive Species Management: <ul style="list-style-type: none"> - Implement monitoring and control programs to prevent the spread of invasive aquatic species in irrigation and flood protection infrastructure. ○ Energy Efficiency: <ul style="list-style-type: none"> - Optimize energy use through efficient pump systems, renewable energy integration, and regular maintenance of energy-consuming equipment. ○ Waste Management <ul style="list-style-type: none"> - Implement waste management plan. - For solar irrigation, farmers will need to assisted with long-term arrangements for disposal of solar panels.
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Risks & Impacts	Design phase	Construction phase	Operational phase
		<p>construction material use and recycling where feasible.</p> <ul style="list-style-type: none"> - Implement energy-efficient construction practices and use renewable energy sources where possible. o Waste Management o Implement waste management plan 	
SOCIAL RISKS AND IMPACTS	<ul style="list-style-type: none"> o Economic Displacement Impacts and Land Acquisition Issues: <ul style="list-style-type: none"> - Proposed designs follow the existing alignment and if it is necessity to widening, the design shall be proposed within the right of way under public land. In case of widening, follow Resettlement Planning Framework and develop a fair and transparent land acquisition and resettlement plan, ensuring affected communities are adequately compensated and resettled, if necessary. 	<ul style="list-style-type: none"> o Community Engagement: <ul style="list-style-type: none"> - Maintain ongoing communication with affected communities to address concerns and keep them informed about construction activities. - Implement grievance mechanism to address community complaints and issues promptly. o Displacement and Resettlement: <ul style="list-style-type: none"> - Implement resettlement plans, ensuring affected communities receive fair compensation, land, and livelihood restoration support. - Support affected households in finding alternative housing and income opportunities. o Health and Safety: <ul style="list-style-type: none"> - Enforce strict health and safety regulations on construction sites to protect both workers and nearby communities. - Provide appropriate training and personal protective equipment to workers. - Signboards o Cultural Heritage Protection: <ul style="list-style-type: none"> - Conduct archaeological surveys before construction in culturally sensitive areas. - Develop mitigation strategies to protect cultural heritage sites and involve local communities in preservation efforts. o Gender Participation: <ul style="list-style-type: none"> - Implement Gender Action Plan and measures to promote female beneficiaries for improved participation in project planning and implementation, and economic empowerment. 	<ul style="list-style-type: none"> o Stakeholder Engagement: <ul style="list-style-type: none"> - Maintain transparent and ongoing engagement with local communities and stakeholders to address concerns and ensure the equitable distribution of water resources. - Establish mechanisms for conflict resolution and dispute management related to land use and water allocation. o Access to Water: <ul style="list-style-type: none"> - Ensure that water access is fair and inclusive, with mechanisms in place to support vulnerable and marginalized communities in accessing water resources. o Health and Safety: <ul style="list-style-type: none"> - Continue to enforce strict health and safety regulations for workers and nearby communities during ongoing maintenance and operation activities. - Provide ongoing safety training and personal protective equipment to workers. o Gender Participation: <ul style="list-style-type: none"> - Implement Gender Action Plan and measures to promote female beneficiaries for improved participation in project planning and implementation, and economic empowerment.
CLIMATE RISKS AND IMPACTS	<ul style="list-style-type: none"> o Climate-Resilient Design: <ul style="list-style-type: none"> - Incorporate climate resilience into the project design by considering future climate projections and ensuring infrastructure can withstand extreme weather events and changing climate conditions. 	<ul style="list-style-type: none"> o Climate-Resilient Construction: <ul style="list-style-type: none"> - Incorporate climate-resilient design features into infrastructure construction to withstand climate-related risks. - Implement flood and stormwater management measures to prevent construction site flooding. o Temperature Extremes: 	<ul style="list-style-type: none"> o Climate-Resilient Infrastructure: <ul style="list-style-type: none"> - Regularly assess and maintain flood protection and irrigation infrastructure to ensure its resilience to changing climate conditions. - Develop flood and drought management strategies based on climate projections. o Maintenance and Repairs:

Risks & Impacts	Design phase	Construction phase	Operational phase
	<ul style="list-style-type: none"> ○ Adaptive Management: <ul style="list-style-type: none"> - Develop adaptive management plans that can be adjusted based on changing climate conditions, ensuring the project's long-term viability. ○ Baseline Data Collection: <ul style="list-style-type: none"> - Establish baseline data for environmental, social, and climate variables during the pre-construction phase to enable effective monitoring and evaluation throughout the project's lifecycle. ○ Climate Risk Assessments: <ul style="list-style-type: none"> - Regularly assess climate risks and vulnerabilities during the pre-construction phase to identify emerging issues and adjust plans accordingly. ○ Community Resilience: <ul style="list-style-type: none"> - Support local communities in building resilience to climate change through capacity-building programs, education, and access to climate-resilient livelihood options. ○ Green Infrastructure: <ul style="list-style-type: none"> - Consider the use of green infrastructure solutions, such as natural flood management techniques, to complement traditional engineering approaches and enhance climate resilience. 	<ul style="list-style-type: none"> - Implement heat stress prevention measures for workers, such as shaded rest areas and hydration stations in hot weather. - Provide adequate clothing and equipment for workers during cold weather. - Ensure all vendors provide training on key risks (e.g., how to stay safe during lightning and thunderstorms). ○ Community Resilience Building: <ul style="list-style-type: none"> - Support local communities in building climate resilience by providing training and resources for climate adaptation. ○ Monitoring and Compliance: <ul style="list-style-type: none"> - Establish regular monitoring and reporting mechanisms to ensure compliance with environmental, social, and climate mitigation measures. - Conduct periodic audits to assess the effectiveness of mitigation efforts and make necessary adjustments. 	<ul style="list-style-type: none"> - Implement a robust maintenance program to promptly address damage or sedimentation issues caused by climate-related events. - Ensure that infrastructure components remain in good working condition to maintain their effectiveness. ○ Energy Transition: <ul style="list-style-type: none"> - Transitioning to cleaner energy sources such as solar pumps to reduce carbon emissions associated with irrigation. - Promote carbon mitigation practices in rice production (straw management, alternate wetting and drying, laser land leveling that can increase efficiency of water use on farm). ○ Adaptive Management: <ul style="list-style-type: none"> - Establish adaptive management plans that allow for adjustments in water management and infrastructure operations in response to climate variability and extreme events. ○ Community Resilience Building: <ul style="list-style-type: none"> - Support local communities in building climate resilience through education, capacity-building programs, and climate-smart agriculture practices. - Encourage community-led initiatives for flood preparedness and disaster risk reduction. ○ Water Management Adjustments: <ul style="list-style-type: none"> - Be prepared to adjust water management practices, such as reservoir release schedules, in response to changing climate conditions and hydrological patterns. ○ Monitoring and Reporting: <ul style="list-style-type: none"> - Continue regular monitoring and reporting on environmental, social, and climate-related factors to assess the effectiveness of mitigation efforts and make necessary adjustments.

9. To mitigate issues pertaining to social exclusion and conflict over land use/land tenure/land management, related safeguards documents, like the Stakeholder Engagement Plan (SEP), Indigenous Peoples' Plan (IP Plan), and Gender Assessment and Action Plan (GAP), have been developed to supplement this ESCMF and improve overall project design. The Grievance Redress Mechanism (GRM) is also available for any project affected persons who feel they have been negatively impacted or excluded and is detailed in Chapter IX of this ESCMF.

10. **Inherent Risks:** There are inherent risks pertaining to presence of landmines and unexploded ordinances (UXOs) if construction occurs in new areas (i.e., areas without existing construction/infrastructure/activities). Inherent risks are addressed with project-related impacts under Chapter IV of the ESCMF.

11. **Implementation:** The ESCMF will be implemented with the support of two safeguards specialists with MOWRAM Project Management Unit. Further support at the commune level will be determined by inclusion of safeguards-related obligations within the Terms of Reference of the project staff/implementing agencies. For construction financed under the project, contractors will be obliged to abide by the GCF and AIIB and IFAD safeguards requirements, in addition to national legislation/regulations, and commit to Environmental and Social Management Plans (ESCMs) and Environmental Codes of Practices (ECOPs) as part of their contract. Independent ESC monitoring will be conducted over the life of the project construction and implementation phase. A socio-economic and census survey will be conducted to support the development of the Resettlement Plan.

1. INTRODUCTION

1.1 Project Rationale

1 The CAISAR project covers a total command area of 45,000ha and is composed of three sub-project command areas – Ou Ta Paong, in Pursat Province, Lum Hach, in Kampong Chhnang Province and Krang Ponley in Kampong Chhnang, Kapong Speu and Kandal. The project objective is to improve agriculture productivity by providing irrigation and flood protection in the project areas. The project design is to increase climate adaptation, mitigate the negative impact of extreme climate events, and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces of Cambodia, including Pursat, Kampong Chhnang, Kampong Speu, and Kandal provinces. Mitigation is a co-benefit of this adaptation project, as it will also contribute to reduce GHG emissions, including methane emissions from rice fields. These objectives will be achieved by implementing three components that aim at addressing vulnerabilities of farming communities to climate change, increasing agriculture productivity, and developing institutional capacities. The investments to be implemented will (i) combine robust climate- resilient water management and agricultural practices at the farm level, (ii) establish climate-proofed irrigation and flood control infrastructure and (iii) develop institutional capacity to plan, maintain and operate irrigation and flood control infrastructure in a changing climate context. The CAISAR project has a broad positive impact 'enefitting 120,000 household (500,000 people) directly while its effect will propagate to over 3 million people in the region. The project will be executed through the Ministry of Water Resources and Meteorology (MOWRAM) and the National Committee for Sub-National Democratic Development Secretariat (NCDD-S), a Direct Access Accredited Entity to the GCF. The expected timelines for the approval of the co-financing by IFAD and AIIB Executive Boards are respectively September 2024 and January 2024, with the inception of the project is expected to take place in December 2024.

1.2 Country & Project Context

2 The CAISAR Feasibility Study noted that Cambodia is highly vulnerable to climate change and natural disaster risks. It is ranked 151 out of 181 countries in the 2020 ND-GAIN Index, was the 12th most disaster-prone country among 172 countries for 1999–2018 and remains one of the few Least Developed Countries (LDCs) in Asia. Annual economic losses resulting from natural disasters in the country were estimated at 0.7% of GDP in 2011. The World Risk Index of 15.8% indicates a very high risk of disaster because of extreme natural events, with an exposure index of 27% and a vulnerability index of 59%. Approximately 80% of the country is within the Mekong River and Tonle Sap basins, increasing exposure to floods, storms, and droughts. Identified hazards are assessed as high across the whole country for river floods and coastal floods, cyclones, extreme heat, and wildfires. By mid-century, climate change will result in more frequent heavy precipitation days, from 2.4 days to 4.9 days in the rainy season, and an increase in the number of consecutive dry days in the same season from 0.8 days to 4.4 days. The median temperature is projected to increase by 1.6°C by 2060.

3 Cambodia has approximately 4.5 million ha of cultivated land, 70% of which is rice production, as well as industrial crops (20%), rubber plantations (7%), and permanent crops (4%). Cambodia maintains a high reliance on the agriculture sector, which accounts for nearly 22% of the country's GDP while the rural population represents 75.8% of the national population¹. In Cambodia, relatively low yields, coupled with frequent natural disasters, contribute to temporary food shortages for vulnerable communities. Based on food availability and food access, a mapping of food security has been conducted for the country. Seven of Cambodia's 25 provinces (including Phnom Penh) are classified as acutely food insecure, and an additional seven are moderately insecure. Livelihoods rely heavily on rain-fed agriculture and non-poor households are vulnerable to falling back into poverty in the event of extreme or frequent climate shocks².

¹ UNDESA (2018) The Least Developed Country Category: 2018 Country Snapshots. Available at: <https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/Snapshots2018.pdf>.

² https://docs.wfp.org/api/documents/WFP-0000147767/download/?_ga=2.188002408.1116277075.1681899242-

636470978.1669479646

4 Women and children are among the most vulnerable groups to climate change. Climate adaptation among rural populations and national institutions remains low as many households face rising debt caused by coping with natural disasters and the COVID-19 pandemic. Since 2020, the negative impacts of climate change and the pandemic led to a 10% loss in Gross Domestic Product (GDP). In addition to negative climate impacts, the stagnating global agricultural commodity prices, rising labor costs and the limited scope for cropland expansion in the country will challenge the agriculture sector (WB, 2015)³.

5 Farming remains mostly subsistence-based and rain-fed, with low productivity. Only 7 – 8% of the total potential agricultural land area is under full irrigation in Cambodia. Further, only 15% of the cultivated rice area is irrigated (compared to 28% in Thailand and 46% in Viet Nam), and 85% of the rice cropping area is vulnerable to changing rainfall patterns⁴. Therefore, while rice accounts for 50% of agricultural GDP, yields are lower than neighboring countries. The lack of water for irrigation is a crucial barrier for farmers to deal with climate change-induced water shortages, and to cultivate more than a single crop per year – limiting their resilience and adaptive capacity. Studies suggest that shifting to irrigated cultivation could result in annual overall production increases of up to 40%. The lack of timely information on droughts and floods (seasonal forecasts, the changing length) is another barrier. Furthermore, farmers lack the knowledge and tools to adapt their farming practices / production techniques to climate change; they are largely unaware of climate resilient practices (e.g., alternatives to flooded rice cultivation or application of AWD methods in rice), stress-tolerant seed varieties and improved planting materials, efficient input management, and the benefits of applying such practices. The labor shortage in rural areas has increased due to migration to urban areas, which in turn has led to a rise in agricultural wages. Other significant barriers for small-scale farmers include access to credit on attractive and appropriate terms, and market intelligence. Cambodia is unlikely to achieve 5% of their annual agricultural growth target by 2030, without more investment in climate adaptation, sustainable irrigation, and flood control and drainage schemes. Persistent poverty, limited access to finance, and insufficient institutional capacities have left the rural agrarian population vulnerable to the negative impacts of climate change, economic slowdown, and environmental degradation.

6 The local private sector also fails to offer technologies that farmers need (e.g., stress tolerant seeds, bio-inputs) and engage in value addition (e.g., rice milling prior to exports) adequately and sufficiently. Production and distribution costs of agricultural products are high compared to the neighboring countries, largely due to high energy and transport costs. Private sector investment in water saving micro technologies in irrigation and extension services remains low due to an unfavorable agri-business environment, such as access to appropriate finance, poor communication and cooperation between government and private sector, and the absence of a clear regulatory framework for the establishment, operation and pricing for the private management of water. Large agri-businesses face high costs and shortages of working capital. Many agri-business firms operate below capacity and potential new investors are reluctant to invest due to low profitability and high risk of failure.

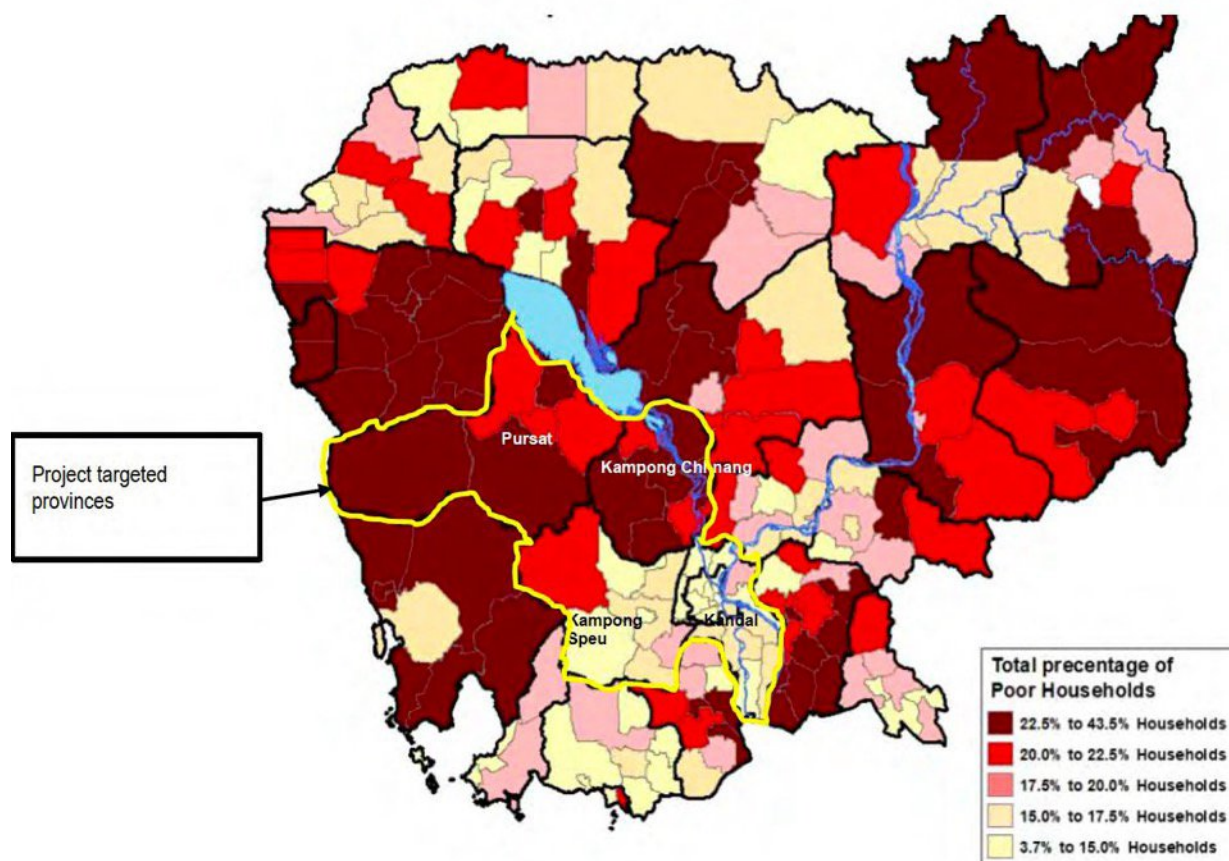
7 There are several obstacles to women's economic empowerment in Cambodia, including (i) the amount of time and responsibility for unpaid domestic and care work, (ii) low levels of literacy and education, and (iii) a lack of access to resources necessary for economic empowerment, and (iv) resilience to climate risks. Women have higher participation in agriculture than men but receive lower benefits and have lower access to land, extension services, financial services, markets, and technologies. Rural youth face difficulties in accessing land, which also limits access to credit, as financial institutions generally require land as collateral and a high proportion migrate to urban areas in search of work. Poverty incidence among ethnic minorities is not significantly higher than among the majority, but they suffer disadvantages in access to health, education and other services.

³ <https://openknowledge.worldbank.org/entities/publication/78d3d276-3a5f-5bf2-915d-2d0381a13930>

⁴ Kono, A. and Chey, T. 2019. Rapid assessment of upland cashew, mango, organic rice, and vegetable production. Actions for Climate- resilient and Sustainable Agricultural Production in the Northern Tonle Sap Basin. FAO.

8 In Cambodia, GHG emissions are dominated by the Forestry and Other Land Uses (FOLU) sector (60.90%) and agriculture (16.9%), followed by energy (12.10%), IPPU (7.90%) and waste (2.20%) sectors. Under a business-as-usual (BAU) scenario, Cambodia forecasts an increase in emissions from 125.2 MtCO₂eq in 2016 to 155.0 MtCO₂eq in 2030. While the emissions reduction scenarios (by 2030) in the NDCs largely target AFOLU and energy sectors, owing to the links between FOLU (land-use and forest conversion) and agriculture, actions to increase productivity of agricultural lands and interventions such as home gardens are likely to have indirect effect on AFOLU targets⁵.

9 The CAISAR target provinces include: Kampong Speu, Kampong Chhnang, Kandal, and Pursat. These provinces⁶ have the highest population density, high total percentage of poor households, and a high percentage of women-headed households (Figure 1). The livelihoods of the poorest and most vulnerable people in the region depend mainly on agricultural production and water availability through precipitation, river flow, and irrigation schemes. This area and its population is particularly vulnerable to climate risks due to changing weather patterns and flooding.



Source: CAISAR Feasibility Study

Figure 1-1 Map of the project area and total percentage of poor households by 2016 (AF, 2018)

⁵ RGC, 2020. Cambodia's Updated NDC. Retrieve from: https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Cambodia%20First/20201231_NDC_Update_Cambodia.pdf ⁶ The Asia Foundation (2018). *cambodia-atlas-on-gender-and-environment.pdf.pdf* (opendevelopmentmekong.net)

10 The project area was already under stress prior to the COVID-19 pandemic with small-scale farmers and larger food producers struggling to produce food and access markets. Food shortages face, additional pressure from climate change with serious droughts⁷ during the dry months and heavy monsoon during the rainfall season. Rural communities highlight major water problems with competition in irrigation due to aging/lack of infrastructure and reduced water availability in rivers and ponds, which poor communities and households depend on. The proposed underlying investment project will support the government's efforts to sustain food security and rural livelihood after the COVID-19 crisis through the restoration and enhancement of climate-smart and climate-resilient irrigation systems under the “Build Back Better” approach in the target provinces.

1.3 Climate Change Impacts and Vulnerability of the Agriculture Sector

11 The concept note stated that similar to other monsoon-dependent countries, climate change is altering Cambodia's and project areas' monsoon calendar, increasing total drought days and shifting the start of the rainy season. While annual rainfall is expected to increase, the number of days with rain is decreasing and daily rain intensity is increasing, resulting in extreme rainfall events and flooding risks. The World Resource Institute (WRI) rates the upper and lower Tonle Sap watershed as extremely high for water risk (WRI, Aqueduct). Inter-annual variability in rainfall significantly influences river discharges and between one and four million hectares of Cambodia's floodplain, of which about 25% falls in the project areas, may be submerged during the wet season, reaching critical thresholds for irrigation and ecosystem stability.

12 Flooding in the project areas generally occurs between July and October, driven by rainfall as well as high water levels in the Mekong River and Tonle Sap Lake. With the increased intensity of wet-season rainfall, the duration and extent of flooding have increased in some areas. While local rainfall patterns are important for both irrigated and rainfed agricultural systems, the Mekong-Tonle Sap flood impulse dominates the flooding pattern and hence plays an important role in the overall water management.

13 Observed impacts of climate change trends in recent years have manifested by longer dry seasons and more intense “El Niño” related droughts, delayed onset of the monsoon season, increased rain intensity and frequency, leading to floods, and unexpected dry periods during the rainy season. Annual mean temperature anomaly has increased at a rate of 0.23 °C per decade since 19508, with a stronger signal of increase during the dry season. The rate of temperature change is notable in the dry season (December, January and February) followed by pre-monsoon (March, April and May) and, to a minor extent, by wet season months (June, July and August). The increase in mean annual temperature and decrease in dry season rainfall has manifested in droughts and water shortages significantly impacting rainfed agriculture due to a late start and early ending of the wet season.⁹

14 On average, annual damages and loss of wet season rice caused by floods and droughts is approximately 120,501 hectares, of which 70 percent of the damage and loss is due to floods and 30 percent is the result of droughts. Flooding occurs frequently and extensively in Cambodia. The source of these floods can be the Mekong River including the Tonle Sap Great Lake, tributary flash floods, urban flooding, and failure of structures such as protection levee and storages. In terms of the population affected, Cambodia is one of the world's most flood-exposed countries in the world. By 2050, population exposed to flood is expected to reach 19% of the population. Projected climate change trend indicates more severe floods and droughts, which is expected to affect Cambodia's GDP by nearly 10% by 2050¹⁰

⁷ Kampong Spoeu, one of the four target provinces, reported the highest number of droughts (one of the eight main natural hazards in Cambodia) between 1996 and 2013. (https://www.unccd.int/sites/default/files/country_profile_documents/1%2520FINAL_NDP_Cambodia%255B1157%255D.pdf).

⁸ Thoeun, H. C. (2015) Observed and projected changes in temperature and rainfall in Cambodia. Weather and Climate Extremes. 7:61. [old reference]

⁹ MAFF (2017) MAFF Annual Report 2016-17

¹⁰ Climate risk country profile, Cambodia. 2021.

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[ateknowledgeportal.worldbank.org/sites/default/files/2021-08/15849- WB_Cambodia%20Country%20Profil](https://climknowledgeportal.worldbank.org/sites/default/files/2021-08/15849- WB_Cambodia%20Country%20Profil)

15 Drought has significant social and economic impacts in Cambodia, in particular in the project areas. According to the Ministry of Environment. (2002). *Report on the Impact of Drought in Cambodia*, the drought in 2002 affected 43 districts in eight provinces. Some 442,419 families (2,017,340 individuals) were affected. The total estimated damage was US\$ 9 million. Rice and crop production was affected in all provinces and about half a million rural people faced food insecurity. Droughts events have become more frequent as further explained in annex 1, and are expected to intensify in future. According to the International Rice Research Institute, rice grain yield will decline by 10% for each 1°C increase in growing-season minimum (night) temperature in the dry season. In Cambodia, drought has been negatively impacting rice production, and is widely recognized as one of the most serious climate risks for the agriculture sector.

16 The Climate Risk Country Profile, Cambodia 2021 noted that future projections of climate change in the project area under the RCP4.5 scenario (Figure 1-1) indicate a temperature increase of 1.6°C by mid-century (2036-2065) and up to 2.2°C by the end of the 21st century (2066-2095)¹¹. Nights exposed to high temperatures are projected to become more frequent during the 21st century (+114 nights by mid-century and +151 nights by the 2080s). Population, crop and livestock systems will also experience heat extremes more frequently in comparison to the reference period (42 days by mid-century and reaching 62 days by the 2080s) and IFAD is expecting a drastic reduction in the productivity of crops and livestock (IFAD's preliminary climate analysis). Out of all the rivers within the Mekong River Basin, the water levels of the Tonle Sap Lake tributaries are anticipated to experience the greatest water decline. These changes in water levels are attributed to shifts in seasonal rainfall distribution and prolonged dry periods (IPCC, 2021).

17 The changes in precipitation and temperature patterns induced by climate change in the project area could affect the climatic suitability of cereals, vegetables and starchy crops produced. On average, for most crops analysed for this project, the temperature suitability could progressively decrease with some crops falling outside their optimal temperature levels. Overall, this change in patterns could contribute to a reduction in crop yield for both irrigated and non-irrigated crops. For example, in the Kampong Chhang region, rice yield could decrease from 9 to 12%, with and without irrigation, respectively, by 2050 (a period of 20 years centred around 2050) compared to 2020 (Climate Risk Country Profile, Cambodia, 2021). These projections are for the RCP8.5 scenario and without CO2 fertilization. As smallholder farmers' incomes are largely dependent on their yield, it is anticipated that farmers' income could become more volatile with a decreasing trend over time. It is projected that vegetables will be increasingly exposed to heat-stress conditions during the pre-monsoon and early wet-season months (March-June). Over these months, heat-stress conditions (>36°C) will be exceeded more than 50 days during the growing season, lasting approximately 90 days.

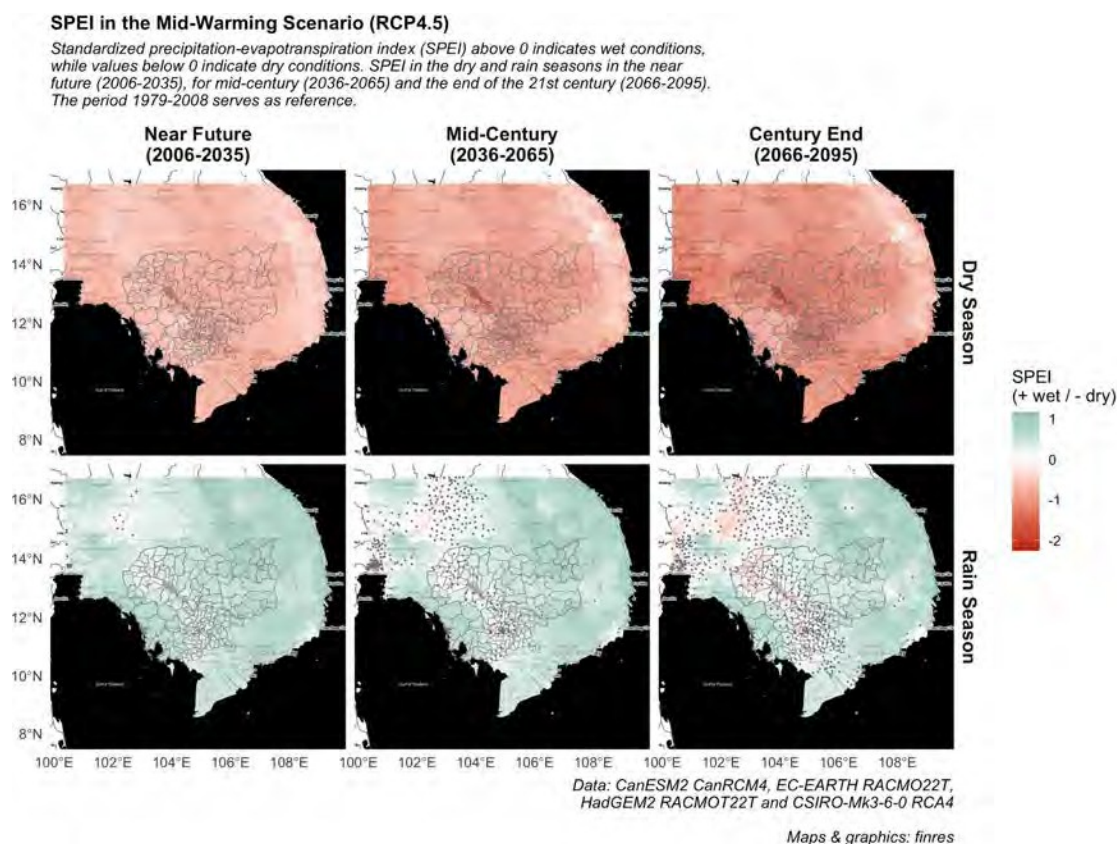
18 Climate change affects women, men, and vulnerable people differently, and their responses to its impacts also differ, including in relation to safeguarding food security and livelihoods and coping with hazards and risks. In the project area, women have significantly less access than men to financial instruments, land, natural resources, climate change resources and technologies, education, and other development services for successful adaptation to climate change. Cambodia's Women's Resilience Index, ActionAid, 2022 found women less resilient in times of disaster than men due to women's unstable and insecure sources of income, limited access to shelters or safe places, inadequate early warning information, poor housing, weak social safety nets and absence of emergency networks. Furthermore, women's responsibilities in household resources position them well to contribute to livelihood strategies adapted to

¹¹ Climate risk country profile, Cambodia. 2021.

<https://clim>

[ateknowledgeportal.worldbank.org/sites/default/files/2021-08/15849- WB_Cambodia%20Country%20Profil](https://climateknowledgeportal.worldbank.org/sites/default/files/2021-08/15849-WB_Cambodia%20Country%20Profile.pdf)

changing environmental realities. However, lack of information, access to planning processes, and care obligations, limit their ability to contribute.



Source: GCF Concept Note

Legend: Above 0 indicates wet conditions, while values below 0 indicate dry conditions.

Figure 1-2: SPEI in the high warming scenario (RCP4.5)

19 Agriculture is central to the economic and social life of Cambodia. With 76% of the population currently living in rural areas, Cambodia's populace and economy rely heavily on agriculture and fisheries, contributing 22% of GDP and employing 34% of the country's labour force¹². As a result, Cambodia has a high dependency on natural resources and climate-sensitive sectors of the economy, which makes it particularly vulnerable to inter-annual and intra-annual changes in climatic conditions. Natural hazards have significant effects on Cambodia's population and pose a serious challenge for water resource management and poverty alleviation in the country. This vulnerability to hazards combined with high exposure to climatic extremes, means that Cambodia is faced with a heightened disaster risk from both floods and droughts.

20 Current climate models project that these climatic extremes will worsen over the coming century, meaning that they must be considered when addressing poverty reduction and economic development. The Royal Government of Cambodia is making efforts to devise strategies that decrease this vulnerability through improved flood and drought proofing, natural disaster preparedness and climate adaptation strategies to reduce risks from floods and droughts. Reducing the impacts of floods and droughts are key priorities for sustainable development (IPCC, [2021](#)).

¹² Data for 2020, World Bank, World Development Indicators

21 The Royal Government of Cambodia is committed to meeting its greenhouse gas emission targets and ensuring that appropriate mitigation and adaptation efforts are adopted across key sectors of the economy. The Climate Change Strategic Plan 2014 – 2023 sets out the main strategic objectives and directions for climate-smart development in Cambodia over the coming decade and the agriculture sector will be a key player to ensure that the objectives of the plan are met (National Climate Change Strategic Plan 2014-2023, Royal Government of Cambodia, 2013). The agricultural sector therefore has significant potential to reduce poverty, food insecurity and ensure rural populations are resilient and adapted to climate change.

22 The CAISAR project will support the RGC's effort to improve and strengthen the disaster resilience of the populations of four provinces in Cambodia. Through combining irrigation rehabilitation with climate smart and resilient design, the project will build a low carbon and climate resilient future, enabling rural populations to adequately adapt to current and future climate impacts and increase their food security and livelihoods whilst also enabling the RGC to meet its climate targets.

23 **Stakeholder Engagement:** To support development and design of this project, extensive stakeholder engagement was conducted to discern potential positive and negative project impacts, as well as key design opportunities to improve accessibility and participation. In July and September of 2023 stakeholder meetings were conducted with potential communities affected in each project area as well as with key NGOs. Continued stakeholder engagement must involve iterative consultations throughout the project's life cycle with particular attention to vulnerable populations and groups prone to exclusion, be that for reasons of gender, orientation, age, ability, religious beliefs, and/or ethnicity. The guidelines for stakeholder engagement are available in the Stakeholder Engagement Plan (SEP).

24 **Indigenous Peoples/Ethnic Minorities, Women, and Vulnerable, Disadvantaged Persons:** to ensure adequate inclusion of ethnic minorities, women, and other vulnerable persons, an Indigenous Peoples' Plan (IP Plan) and Gender Assessment & Action Plan (GAP) have been prepared to guide project implementers and ensure that considerations for the differentiated needs of ethnic minority (EM) communities, women, and vulnerable persons are built into the project design and monitoring indicators.

25 **Environmental, Social and Climate Management Framework (ESCMF)** serves as the primary guidance document for management and mitigation of environmental, social, and climate risks and impacts throughout the project cycle.

1.4 Purpose and Application of the ESCMF

26 The project objective is to increase climate adaptation, mitigate the negative impact of extreme climate events, and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces of Cambodia (Pursat, Kampong Chhnang, Kampong Speu, and Kendal). Mitigation is a co-benefit of this adaptation project, as it will also contribute to reduce GHG emissions, including methane emissions from rice fields. These objectives will be achieved by implementing three components that aim at addressing climate change vulnerabilities, increasing agriculture productivity, and developing institutional capacities. The investments to be implemented will (i) combine robust climate-resilient water management and agricultural practices at the farm level, (ii) establish climate-proofed irrigation and flood control infrastructure and (iii) develop institutional capacity to plan, maintain and operate irrigation and flood control infrastructure in a changing climate context.

27 The CAISAR project involves numerous subprojects and activities where specific locations are still to be identified during further design and implementation. Based on the inability to confirm specific sub-projects prior to project appraisal, this Environmental and Social Management Framework (ESCMF) has been prepared. Given small discrepancies in the format of the environmental, social, and climate risks/impacts documentation required for IAAB, FAO, IFAD and GCF funded projects, the Government of Cambodia agreed with IFAD's SECAP specialists based in headquarters to follow the standard GCF documentation, rather than developing two separate sets of documents. According to IFAD's Social, Environmental and Climate Assessment Procedures (SECAP) and the Green Climate Fund's (GCF's)

Environmental and Social Standards, the Lead Agency of the proposed project must prepare and disclose this ESCMF¹³ before appraisal.

28 The purpose of the ESCMF is to ensure that the project has concrete plans and processes in place to avoid, minimize, and/or mitigate the risks and potentially adverse project-related environmental and social (E&S) impacts, including climate risks, once the CAISAR activities and/or subprojects are identified, planned, and implemented. This living document: (i) assesses and summarizes project-related risks and impacts; and (ii) sets out the principles, rules, guidelines, and procedures to assess any potential risks and impacts of future subproject and activities identified at a later time. It provides measures to reduce, mitigate, and/or offset those adverse risks and impacts from the project and highlights information about areas where subprojects are expected to be located (including any specific E&S-related vulnerabilities of those areas; potential impacts that may occur; and mitigation measures that might be used). Specific objectives of this ESCMF are to:

- Assess the potential environmental, social, and climate-related risks and impacts of the project, both positive and negative, and propose mitigation measures which will effectively address these risks and impacts;
- Establish clear procedures for the E&S planning, review, approval, and implementation of subprojects and other activities to be financed under the project;
- Specify appropriate roles and responsibilities and outline the necessary reporting procedures for managing and monitoring E&S issues/concerns related to subprojects, TA, and activities;
- Determine the training, capacity building, and technical assistance needed to successfully implement the provisions of this ESCMF;
- Outline and address mechanisms for public consultation and disclosure of project documents, as well as redress of possible grievances; and
- Establish the budget requirements for implementation of this ESCMF.

29 This ESCMF provides information on (i) items ineligible for Project funding; (ii) how to conduct the E&S screening; (iii) risks and impacts classifications; (iv) identification of various E&S documents to be prepared (both prior to and after project approval) and the process to be followed for their preparation (including the clearance process); (v) implementation arrangements; (vi) training and capacity building; (v) grievance redress mechanism; (vi) estimated costs and budget requirements; and (vii) guidelines and specific forms for preparation of the identified E&S documents required. This ESCMF will be applied to all subprojects and activities to be financed by CAISAR.

1.5 Scope of the ESCMF

30 This ESCMF was developed based on a review of project-relevant government laws, regulations, ordinances, and other legal documents; various background papers and reports pertaining to environmental and social conditions of the proposed project areas and potential subproject sites, including feasibility studies; as well as numerous field visits, 630 interviews through Livelihood Household Surveys, 100 focus group discussions, 100 key informant interviews, and other consultations (community meetings) in those areas. Safeguards documents prepared for similar projects and/or projects in related areas (e.g. others financed by AIIB, IFAD, World Bank, FAO, etc.) were also taken into consideration.

31 This ESCMF follows the requirements of AIIB, IFAD's SECAP and the GCF's Environmental & Social Policy, taking into consideration the related guidance notes and documents. Information is presented in ten sections, as follows:

1. Introduction
2. Project Description
3. Policy, Legal, and Administrative Framework
4. Environmental and Social Assessment and Proposed Mitigation Measures

¹³ The ESCMF examines the risks and impacts when a project consists of a program and/or a series of subprojects, and the risks and impacts cannot be determined until the program or subproject details have been identified.

5. Procedures for Review, Clearance, and Implementation of Subproject E&S Instruments
6. Implementation Arrangements
7. Capacity Building, Training, and Technical Assistance
8. ESCMF Implementation Budget
9. Grievance Redress Mechanism (GRM)
10. ESCMF Consultation and Disclosure

Other information to be considered includes: (i) ineligible activities; (ii) list of banned and restricted pesticide in Cambodia; (iii) Pesticide Management plan; (iv) Chance Find Procedures; (v) List of Consultations & Attendance; (vi) ESCIA Timeline; (vii) ESCIA Budget; (viii) Environmental and Social Screening Checklist; (ix) Indigenous Peoples Planning Framework; (x) Biodiversity Management Planning Framework; (xi) Resettlement Planning Framework; (xii) Gender Assessment & Social Inclusion Plan; (xiii) Climate Management Framework; (xiv) Stakeholder Engagement Plan

32 **Associated facilities.** This ESCMF is also applied to activities or facilities that are, in the judgement of the AIB, associated activities and/or facilities as defined in the AIB's ESF. When this is the case, this ESCMF will be applied to such associated activities and/or facilities – to the extent that MoWRAM has influence over such activities and facilities.

2. PROJECT DESCRIPTION

2.1 Project Objective, Components, Area and Beneficiaries

33 The project's focus is on low-carbon and climate resilient at the farm-level, combined with efficient irrigation and flood control infrastructure and their climate proofing, and institutional development of the FWUCs and the government agencies to strengthen water rights, irrigation fees, and enhance sustainability. Thus, disaster resilience compensation is expected to significantly contribute towards achieving climate change adaptation policy objectives outlined in the NDC, and the individual climate change action plans of the Ministry of Water Resources and Meteorology (MOWRAM). The Project originated from the RGC's National Water Resources Management and Sustainable Irrigation Road Map and Investment Program (2019 -2023), which provides a Strategic Framework for the Irrigation Sector.

The CAISAR project is focusing on climate change adaptation with cross-cutting benefits through the reduction of GHG emissions linked to the use of high-efficiency smart irrigation systems, the use of renewable energy for pumping, and cover techniques to reduce evapotranspiration and enhance GHG reduction. While rice production is a major source of GHG emissions in the AFOLU sector in Cambodia, and the project aims to support production to achieve food security and sector growth, target GHG reduction actions in the project aim to support intensification and diversification without compromising GHG emission reduction targets. This is achieved through adoption of water saving technologies such as alternative wet dry, drip irrigation). A full greenhouse gas accounting will be prepared during the project formulation phase. However, a preliminary analysis of GHG in the target provinces has estimated a reduction of GHG of 90,000 Mt CO₂-eq annually and 1,800,000 Mt CO₂-eq over the life span of 20 years. The investment in agricultural practices and a whole-of-system irrigation approach will irrigate approximately 40,000 hectares (ha) in the rainy monsoon season and about 20,000 ha in the dry season and, as a result, improve energy efficiency by reducing the water and the carbon footprints.

34 The planned CAISAR project has the following planned components

2.2 Component 1: Improving Farm-level climate adaptation, resilience, and water use efficiency

35 The objective of this component is to build climate resilience (CR) of smallholder farmers and enhance sustainable production through evidence-based planning and context-relevant climate resilient practices at the farm level. This component is designed to address the lack of knowledge and skills to deploy technologies and practices at farm level by farmers and the lack of appropriate extension services to propagate them. It will introduce farmers with various climate resilient technologies and practices for both rice and non-rice activities such as vegetable production, poultry and aquaculture.

Sub-component 1.1 Deployment of farm-level climate adaptation and water use efficiency measures

Output 1.1: Increased capacity of farmers to deploy climate resilient (CR) practices at farm level

This output will focus on developing farmer's capacity in deploying CR technologies and practices to transform the agricultural production system to adapt to the changing climate context. Farmer's will be trained to first develop Action Plans (AP) to re-orient farmer behaviour and assist them in transforming the agriculture production system in a manner that is better adapted to factoring in the agro-ecological context and expected climate change impacts.

- Activity 1.1.1 Preparation of community-based action plans (AP) to transform agriculture with CR practices.
- Activity 1.1.2 Preparation of training materials to support implementation of the AP.
- Activity 1.1.3 Conduct trainings to create a pool of expertise to demonstrate and propagate the CR technologies and practices.
- Activity 1.1.4 Train farmers on applying CR technologies using the FFS approach.
- Activity 1.1.5 Strengthening and fostering tailored mechanization service providers for improved mechanization service delivery.

- Activity 1.1.6 community-based monitoring and evaluation (CBME) of implementation

Sub-Component 1.2 Climate adapted, value added, and market led agricultural investments

Output 1.2 CR value added, and market led agriculture investments secured.

This output involves improving and enhancing some value chains that are key for the project area and include rice, vegetable, chicken and aquaculture value chains, through the use of Public Private Producer Partnerships (4Ps) and increased access to finance, which will improve market access, climate adaptability, and ensure increased income for smallholders in the value chains.

- Activity 1.2.1 Value chain study and planning
- Activity 1.2.2 Establish District Multi-Stakeholder Platforms (MSPs)
- Activity 1.2.3 Public Private Producer Partnership Facility (4PF)

Sub-component 1.3 Improve enabling conditions, capacities and disaster risk management strategies

Output 1.3. Increased access to and use of climate information and advisory services for climate responsive agriculture planning

This sub-component will strengthen the production and dissemination of tailored agro-meteorological information to inform climate responsive management and planning of agriculture in the project target areas through ICT technologies. The aim is to ensure that agro-meteorological services are accessible and useful to farmers to manage climate risks, access to and use of water and efficient cropping systems.

- Activity 1.3.1 Establish ICT based multi-disciplinary platform at provincial level.
- Activity 1.3.2 Building the capacities of the platform to deliver services.
- Activity 1.3.3. Establish the agromet information systems and the outreach mechanisms.
- Activity 1.3.4 Awareness raising and capacity building of farmers and stakeholders in applying the services.

Sub-component 1.4 Rural roads

Output 1.4: Increased resilience of farm road infrastructure to climate change

- Activity 1.4.1 Initial planning and identification
- Activity 1.4.2 Technical survey and design considerations, preparation of cost estimation
- Activity 1.4.3 Improve 50 Kilometers of farm roads.
- Activity 1.4.4 Handing over of the completed works.

2.3 Component 2. Irrigation Infrastructure for increased resilience

Component 2 is linked with Component 1 such that it facilitates the implementation of CR on farm crop and water management practices through improved field level water supply delivery and drainage. It will focus on rehabilitating and modernizing of irrigation and flood protection/drainage infrastructure in the six sub-projects, including irrigation and drainage canals, flood control embankments, and ponds, to provide high-efficiency climate-resilient irrigated agriculture systems for adapting to both increasing flood and drought conditions.

Sub-Component 2.1: Modernization of irrigation scheme and ponds

Sub-Component 2.2: Flood-proofing and Drainage improvements

Sub-Component 2.3: Establishments and training of Farmers Water User Communities (FWUC)

- Activity 2.3.1 Formation of institutional strengthening of the FWUC
- Activity 2.3.2 Build technical capacities of FWCU for canal structure O&M
- Activity 2.3.3 prepare long term financing plan for O&M of the systems including the WUAS.

Sub-Component 2.4: Water information and Management (SCADA)

2.4 Component 3. Institutional Strengthening

36 This component aims to strengthen Government institutions, mainly the MoWRAM, MoE and the NCDD and local institution, the FWUC. While the focus for MoWRAM will be on upgrading technical capacity in various aspects of CR irrigation design and management, key focus area for MoE will be on strengthening

climate policies and strategies and in building capacities for monitoring climate actions at national level. It will have three sub-components.

Sub-Component 3.1 MOWRAM capacity Support.

Output 3.1 Strengthened MOWRAM Capacity

Sub-Component 3.2 Strengthening of NDA and NCDD.

Output 3.2 Improved capacities for climate action monitoring

- Activity 3.2.1 Preparation of Loss and Damage Strategy
- Activity 3.2.2 Strengthen national M&E process for climate action
- Activity 3.2.3 Enhancing Capacity of NDA and other stakeholders.

37 Proposal consistent with Government Framework and priorities and existing investments:

The proposed Project is in line with the national policies of the RGC, especially the “National Water Resources Management and Sustainable Irrigation Road Map and Investment Program 2019 - 2033” issued in July 2019 by MOWRAM with the assistance of the development partners. The proposed Project, with its disaster and climate change adaptation design features, will be upscaled to other provinces. RGC and MOWRAM appreciate that water is a limited resource and is taking an integrated water resource management (IWRM) approach to manage water nationwide. MOWRAM is establishing the Water Resources Data Management Center (NWRDMC) and a National Water Resources Information System (WRIS) with ADB assistance. WRIS is an adaptive system housed in the MWRDMC facility that integrates spatial information, CISIS and IAMS, meteorological data, hydrological data, ground measurements, satellite-derived remote sensing data, and Lidar. All data generated on the CAISAR, and all watersheds, are coalesced in WRIS and used to model water availability, use, and floods across entire watersheds.

38 For this project, AIIB requested IFAD to co-finance and assist with the project design, the project implementation, the country’s knowledge to maximize people’s resilience to climate change impacts and support the reduction of GHG emissions in agriculture.

3. POLICY, LEGAL AND ADMINISTRATIVE FRAMEWORK

3.1 Applicable National Laws and Regulations

39 In 1993, the Royal Government of Cambodia confirmed a new Constitution in which environmental considerations were included for the first time. Specifically, Article 59 requires the State to protect the environment and balance of abundant natural resources and to establish a precise plan for the management of land, water, air, wind, geology, ecological systems, mines, energy, petrol and gas, rock and sand, gems, forests and forestry products, wildlife, and fish and aquatic resources. It was within this constitutional context that the Ministry of Environment (MOE) was established.

- 40 The hierarchy of legislation in Cambodia is:
- Royal Decree signed by the King;
 - Sub-decree signed by the Prime Minister;
 - Ministerial Decision signed by a Minister; and
 - Regulation issued by Ministry.

41 A Royal Decree ratifies laws passed by parliament. These can be supplemented by “Prakas” or ministerial decisions. These laws allow sub-decrees and regulations to be passed which can stipulate procedures and standards to be met in order to ensure compliance with the law. Many sub-decrees and standards have been drafted but not yet ratified by parliament.

3.1.1 Laws/Sub-Decrees relevant to Environment and Natural Resources Management

42 The Government of Cambodia has established laws and regulations for forests, protected areas, and land management to ensure sustainable development that are relevant to environmental protection and natural resources management. The key elements of the legal and policy framework for the project are summarized in Table 3-1 below.

Table 3-1: Environmental and Natural Resource Management Policies, Laws & Guidelines

Law/Regulation/Guideline	Year	Summary
Royal Decree on the Protection of Natural Areas	1993	Classified 23 protected areas in Cambodia into four categories: (i) natural parks; (ii) wildlife sanctuaries; (iii) protected landscapes; and (iv) multiple-use areas. Designated the Tonle Sap (316,250 ha) as a multiple-use area or area necessary for the stability of the water, forestry, wildlife and fishery resources, for tourism, and for conservation of long-term existing natural resources with a view to assure sustainable economic development.
Royal Decree on the Establishment and Management of Tonle Sap Biosphere Reserve (Royal Decree No. NS/RKT/0401/070)	2001	Establishes the Tonle Sap Biosphere Reserve (TSBR) in accordance with the statutory framework of the World Network of Biosphere Reserves. Divides the TSBR into 3 zones: (i) core areas; (ii) buffer zone and (iii) flexible transition zone. Core area: set aside for long term protection, human activity is limited to monitoring and research. Buffer zone: area surrounding the core areas helping to protect the environment. It may accommodate education and training activities. Transition area: may contain a variety of agricultural activities and human settlements. Here all stakeholders have to cooperate to achieve sustainable development.

Law/Regulation/Guideline	Year	Summary
Royal Decree No. NS/RKM/0208/007 on Protected Areas	2008	<p>Defines the framework of management, conservation & development of protected areas to ensure the conservation of biodiversity, & sustainable use of natural resources in protected areas.</p> <p>The Law gives the Royal Government of Cambodia the authority to establish or modify Protected Areas (Article 9 and 10). A Protected Area shall be established by sub-decree.</p> <p>Article 11 divides the protected area into 4 zones namely, core zone, conservation zone, sustainable use zone & community zone.</p> <p>Article 36 strictly prohibits all types of public infrastructure in the Core Zone & Conservation Zone; & allows development of public infrastructures in the Sustainable Use Zone & Community Zone with approval from the Royal Government at MoE's request.</p> <p>Article 41 provides for the protection of each protected area against destructive/harmful practices, such as destroying water quality in all forms, poisoning, using of chemical substances, disposing of solid and liquid wastes into water or on land.</p> <p>Article 44 requires all proposals & investments within or adjacent to protected area boundary an Environmental and Social Impact Assessment.</p> <p>The law defines Protected Area as <i>"An area of the State's public properties in land or water territories, including coasts and sea, located in the area established by a Royal Decree or a new area established in the jurisdiction of the Ministry of Environment. These areas are of physical and biological importance which requires management by law with the purpose of protecting and maintaining biological, natural and cultural resources, and shall be sustainably managed in every generation for environmental, social and economic benefits"</i>.</p> <p>Each protected area shall be divided into four (4) management zoning systems:</p> <p>1. Core zone: management area(s) of high conservation value containing threatened and critically endangered species, and fragile ecosystems.</p> <p>Access to the zone is prohibited except for the Nature Conservation and Protection Administration's officials and researchers who, with prior permission from the Ministry of Environment, conduct nature and scientific studies for the purpose of preservation and protection of biological resources and natural environment with the exception of national security and defence sectors.</p> <p>2. Conservation zone: management area(s) of high conservation value containing natural resources,</p>

Law/Regulation/Guideline	Year	Summary
		<p>ecosystems, watershed areas, and Natural landscape located adjacent to the core zone.</p> <p>Access to the zone is allowed only with prior consent of the Nature Conservation and Protection Administration at the area with the exception of national security and defence sectors.</p> <p>Small-scale community uses of Non-Timber Forest Products to support local ethnic minorities' livelihood may be allowed under strict control, provided that they do not present serious adverse impacts on biodiversity within the zone.</p> <p>3. Sustainable use zone: management area(s) of high economic value for national economic development and management, and conservation of the protected area(s) itself thus contributing to the local community, and indigenous ethnic minorities' livelihood improvement.</p> <p>After consulting with relevant ministries and institutions, local authorities, and local communities in accordance with relevant laws and procedures, the Royal Government of Cambodia may permit development and investment activities in this zone in accordance with the request from the Ministry of Environment.</p> <p>4. Community zone: management area(s) for socio-economic development of the local communities and indigenous ethnic minorities and may contain existing residential lands, paddy field and field garden or swidden (Chamkar).</p>
Law on Environmental Protection and Natural Resources Management	1996	<p>The Law was enacted by the National Assembly and launched by the Preah Reach Kram/NS-RKM-1296/36. It was enacted on 24 December 1996. This law has the following objectives:</p> <ul style="list-style-type: none"> i. To protect and promote environment quality and public health through prevention, reduction and control of pollution; ii. To assess the environmental impacts of all proposed projects prior to the issuance of a decision by the government; iii. To ensure the rational and sustainable conservation, development, management and use of the natural resources of the Kingdom of Cambodia; iv. To encourage and provide possibilities for the public to participate in the protection of environment and the management of the natural resources; and v. To suppress any acts that cause harm to the environment.
Law on the Protection of Cultural Heritage (NS/RKM/0196/26)	1996	<p>Regulates the protection of national cultural heritage and cultural property in general against illegal destruction, modification, alteration, excavation, alienation, exportation or importation. Its Article 37 stipulates that in case of chance find of a cultural property during construction, work should be stopped and the person who found the property should immediately make a declaration to the</p>

Law/Regulation/Guideline	Year	Summary
		local police, who shall, in turn, transmit the property to the Provincial Governor without delay.
Law on Forestry	2002	<p>Article 1: This law defines the framework for management, harvesting, use, development and conservation of the forests in the Kingdom of Cambodia.</p> <p>The objective of this law is to ensure the sustainable management of these forests for their social, economic and environmental benefits, including conservation of biological diversity and cultural heritage.</p>
Law on Water Resources Management (NS/RKM/0607/016)	2007	<p>Requires license/permit/written authorization for the: (i) abstraction & use of water resources other than for domestic purposes, watering for animal husbandry, fishing & irrigation of domestic gardens and orchards; (ii) extraction of sand, soil & gravel from the beds & banks of water courses, lakes, canals & reservoirs; (iii) filling of river, tributary, stream, natural lakes, canal & reservoir; and (iv) discharge, disposal or deposit of polluting substances that are likely to deteriorate water quality and to endanger human, animal and plant health. (Articles 12 & 22)</p> <p>Its Article 24 stipulates that Ministry of Water Resources and Meteorology (MOWRAM), in collaboration with other concerned agencies, may designate a floodplain area as flood retention area.</p>
Law on the Management of Pesticides and Fertilizers	2012	<p>The Law on the Management of Pesticides and Fertilizers was enacted on 14 January 2012. This law has the following objectives:</p> <ul style="list-style-type: none"> i. To support a policy promoting the effectiveness potentiality of agriculture sector, for the development of social and national economy; ii. To ensure the safe and effective control of pesticides and fertilizers, whether in consistent with the international standards; iii. To enhance public awareness on the implementation of standard requirements of pesticides and fertilizers for all relevant activities related to these products; and iv. To reduce risks caused by the use of pesticides and fertilizers, for beneficiary of farmers and people in the nationwide, by ensuring food security, food safety, public health, and the sustainability of environment. <p>The scope of the law shall apply to the management and the implementation of standard requirements for:</p> <ul style="list-style-type: none"> i. All type of pesticides and fertilizers, raw materials or active ingredients and other compositions of pesticides and fertilizers which are used as inputs in agricultural production. ii. All activities of natural persons or legal entities who are traders, formulators, pests control services operators, advertisers, donors, and users of all types of pesticides and fertilizers.
Sub-decree on Environmental Impact Assessment Process	1999	The Sub-decree No. 72 ANRK.BK in the Law on Environmental Impact Assessment Process dated 11 August 1999 sets out EIA procedures. The main objectives of this sub-decree are:

Law/Regulation/Guideline	Year	Summary
		<p>i. To determine an EIA for every private and public project or activity, through review by the MOE, prior to the submission for a decision from the government;</p> <p>ii. To determine the type and size of the proposed project(s) and activities, including existing and ongoing activities in both private and public sector prior to undertaking the process of EIA; and</p> <p>iii. To encourage public participation in the implementation of the EIA process and take into account their input and suggestions for reconsideration prior to the implementation of any project.</p>
Sub-decree No. 36 ANK/BK on Solid Waste Management	1999	<p>Article 1: Regulates solid waste management to ensure the protection of human health and the conservation of biodiversity through using appropriate technical approaches.</p> <p>Article 2: This sub-decree applies to all activities related to disposal, storage, collection, transport, recycling, dumping of garbage and hazardous waste.</p> <p>Article 4: The Ministry of Environment shall establish guidelines on disposal, collection, transport, storage, recycling, minimizing, and dumping of household waste in provinces and cities in order to ensure the safe management of household waste.</p> <p>The authorities of the provinces and cities shall establish the waste management plan in their province and city for short, medium and long-term.</p>
Sub-decree No. 27 ANRK/BK on Water Pollution Control	1999	<p>Regulates activities that cause pollution in public water areas in order to sustain good water quality so that the protection of human health and the conservation of biodiversity are ensured.</p> <p>Annex 2 contains effluent standards. Discharge of landfill leachate shall comply with the effluent standards for discharge of wastewater to public water area and sewer.</p> <p>Annex 13 contains ambient water quality standards for biodiversity conservation, and annex 6 includes ambient water quality standards for public health.</p>
Sub-decree No. 42 ANK/BK on Control of Air Pollution and Noise Disturbance	2000	<p>Regulates air and noise pollution from mobile and fixed sources through monitoring, curb and mitigation activities to protect the environmental quality and public health. It contains the following relevant standards: (i) ambient air quality standard (Annex 6); and (ii) maximum allowable noise level in public and residential areas (Annex 6).</p> <p>Article 3 A. "Source of pollution" is defined and separates mobile sources (including transport) and fixed sources such as factories and construction sites.</p> <p>Article 3 B. "Pollutant" is defined as smoke, dust, ash particle substance, gas, vapour, fog, odour, radio-active substance.</p>
		-The goal of this sub-decree is to enhance the management of garbage and solid waste of downtowns with effectiveness, transparency and accountability,

Law/Regulation/Guideline	Year	Summary
Sub-decree on Garbage and Urban Solid Waste Management	2015	referring to ensure aesthetics, public health and environmental protection -This sub-decree covers separating, storing, cleaning, collecting, transporting, recycling and management of landfills of garbage and solid waste of downtowns in the Kingdom of Cambodia
Sub-decree NO. 235 on Management of Drainage and Wastewater Treatment System	2017	-Aims to improve the management of drainage and wastewater treatment systems in term of efficiency, transparency, and accountability to ensure safety, public health, and biodiversity conservation. -The scope of this Sub-Decree applies to the management of drainage and wastewater treatment systems in capital, provincial, district, khan and resorts or recreation centers in the Kingdom of Cambodia. Its annexes 1 and 2 provide Effluent Discharge Standards from Commercial Building, Borey, Satellite City and Resort or Recreation Center Discharges Directly to the Drainage/Sewerage System connected to Centralized Wastewater Treatment Plant, and to the Public Waterbody or Drainage/ Sewerage System
Prakas on the Launch of Standards of the Quantity of Toxins or Hazardous Substances Allowed to be Disposed	2015	This Parkas includes the standards of the quantity of toxic chemicals or hazardous substances contained in hazardous waste which is allowed to be disposed in sanitary landfills and standards of the quantity of toxic chemicals or hazardous substances allowed in soils. Any disposal of chemical waste or hazardous substances as stipulated in the Parkas out of sites determined by the ministry and competent institutions shall be absolutely prohibited and deemed as the infringement of law.
Prakas on Environmental Impact Assessment Classification for Development Projects No. 21 PRK.BST	2020	The Prakas determines the types and sizes of projects that are required to prepare environmental impact assessments. Projects having minor environmental impacts are required to prepare an Environmental Protection Agreement together with an Environmental Management Plan. Projects having medium impacts shall prepare an Initial Environmental Impact Assessment report, and projects with significant impacts are required to prepare a full EIA. All sizes of rubbish disposal sites are required to undertake an IESIA and all sizes of industrial waste disposal sites are required to undertake an EIA.
Environmental Guidelines on Solid Waste Management	2006	Contains a Landfill Ordinance that regulates landfill requirements to: (i) reduce as far as possible the adverse effects of waste disposal on the environment; (ii) preserve groundwater, surface water & air quality & to reduce emissions of greenhouse gases (iii) ensure waste is not harmful to human, natural & animal health during operation & decommissioning; and (iv) provide information and technical recommendation on the construction, operation, closure and aftercare management of landfills to ensure public health and safety and environmental protection.

Law/Regulation/Guideline	Year	Summary
Technical Guideline on Garbage and Urban Solid Waste Management	2016	The technical guideline provides standards for all activities related to disposal, storage, collection, transportation, recycling, dumping of municipal and hazardous waste as well as management of final dumpsite (closing Landfill) and continued management. The technical guidelines list the requirements to be implemented within 90 days for landfill closing (e.g. monitoring, gas management).
National Integrated Pest Management Program		<p>The Integrated Pest Management (IPM) Program in Cambodia was established in 1993 after conducting national workshop on “Environment and IPM”. The overall goal of National IPM Program is to promote food security in Cambodia by enhancing the sustainability of intensified crop production system through the promotion of integrated crop management (ICM) skills at farm level. The objectives of this program are:</p> <ul style="list-style-type: none"> i. to reduce dependence on agricultural chemical, especially pesticides, in agricultural production and to minimize hazards to the human health, animals and environment; ii. to develop the capacity of farmers and agricultural technical officers in conducting training and experiments so that they are able to identify problems occurring in agricultural production and find appropriate solution to deal with the problem by themselves; and iii. Educate farmers on agricultural technology by enhancing their knowledge on field ecology and by developing skills among farmers in monitoring and analyzing field situations that enable them to manage crops properly. <p>At the national level the position of the IPM program was strengthened by a Prakas (Ministerial Declaration) in July 2002, recognizing the National IPM Program as coordinating body for all IPM related activities in Cambodia. The Prakas also established a steering committee and a deputy director to act as the national coordinator</p>

Law/Regulation/Guideline	Year	Summary
<p>Labour Law (1997) Decree No. CS/RKM/0397/01</p> <p>On October 5, 2021, Cambodia enacted the third amendment to the country's main employment legislation, the Labor Law of 1997, revising the rules governing individual labor dispute resolution, work shifts, and public holidays falling on Sundays.</p>	1997	<p>This law governs relations between employers and workers resulting from employment contracts to be performed within Cambodia. The key sections relevant to this project include:</p> <p><u>Chapter VIII Health and Safety of Worker</u></p> <p>The key provisions relate to the quality of the premises; cleaning and hygiene; lodging of personnel, if applicable (such as workers camps); ventilation and sanitation; individual protective instruments and work clothes; lighting and noise levels in the workplace.</p> <p>Article 230: Workplaces must guarantee the safety of workers. However, the only specific occupational health and safety Prakas relates to the garment industry and brick manufacture.</p> <p><u>Chapter IX Work-Related Accidents</u></p> <p>Article 248: All occupational illness, as defined by law, shall be considered a work-related accident. The law sets out how accidents should be managed in terms of compensation.</p>

Law on Land (NS/RKM/0801/14)	2001	Provides that: (i) unless it is in the public interest, no person may be deprived of ownership of his immovable property; and (ii) ownership deprivation shall be carried out according to legal forms and procedures and after an advanced payment of fair and just compensation. (Article 5)
Expropriation Law	2010	Defines the principles, mechanisms, and procedures of expropriation, and defining fair and just compensation for any construction, rehabilitation, and public physical infrastructure expansion project for the public and national interests and development of Cambodia.
The Law on Road Traffic	2015	The law is intended to ensure road traffic safety and order, and protection of human and animal health and lives, properties and environment. Its establishment a requirement for all motor vehicles, trailers, and semi-trailers moving on the road to obtain a technical inspection certificate. It also outlines road safety requirements.
National Policy on the Development of Indigenous Peoples		1. The guiding document to address Indigenous Peoples' issues in Cambodia is the National Policy on the Development of Indigenous Peoples. The Policy, prepared starting in 1994, was approved by the Council of Ministers on April 24, 2009 and sets out government policies related to indigenous peoples concerning culture, education, vocational training, health, environment, land, agriculture, water resources, infrastructure, justice, tourism, industry and mines and energy. The Policy provides principles for formal registration of indigenous communities as legal entities with their own bylaws and enables their participation in economic development that affects their lives and cultures. It states: "Indigenous Peoples shall be fully entitled to express their comments and opinions and to make any decisions on the development of the economy, society and their cultures towards growth in the society
Policy on Registration and Right to Use of Indigenous Communities		The policy was approved by the Council of Ministers on April 24, 2009, and a Sub-Decree on procedures of registration of Land of Indigenous communities was signed on June 9, 2009 by the Prime Minister. This policy takes as its basis the recognition in the Land Law of 2001, of the right of indigenous communities to possess and use land as their collective ownership. The policy states that the registration of indigenous communities as collective ownership is different from the registration of individual privately owned land parcels because the land registration of the indigenous communities is the registration of all land parcels belonging to the communities as a whole, consisting of both State Public Land and State Private Land in accordance with the articles 25, 26, and 229 of the Land Law and related Sub-decrees. These land parcels are different in size and can be located within the same or different communes/sangkat

3.1.2 EIA Classification

43 In order to provide guidelines on effective implementation of sub-decree No 72 ANRK.BK on environmental impact assessment Procedures for development projects, MoE promulgated sub-decree No. 21 on Environmental Impact Assessment Classification for Development Projects.

44 According to this sub-decree, environmental impact assessment for projects is classified into three categories.

- Projects requiring full environmental impact assessment (full ESIA), equivalent to AIB's

- environmental category A, and IFAD's high risk
- Projects that require initial environmental impact assessment (IEIA), equivalent to AIIB's environmental category B, and IFAD's substantial risk
- Projects requiring the Contract on Environmental Protection (EPC), equivalent to AIIB's environmental category C plus simple EIA analysis and EMP, equivalent to IFAD's moderate/low risk

45 The sub-decree includes an annex listing projects under various sectors and their categorization on the basis of their nature, type and size. The sector and EIA classification for irrigation project is summarized in Table 3-2 below.

Table 3-2: ESIA Classification for Development Projects

No.	Project Type	ESIA (Equiv. to AIIB's A)	IESIA (Equiv. to AIIB's B)	Env. Protection Contract
142	Irrigation systems		≥5000ha	1000-5000ha
143	Water diversion systems		≥5000ha	1000-5000ha
176	All building construction	Build area>45000m ²	15000 – 45000m ²	3000-15000m ²
179	Road construction (new)	>100km	≥30 – 100km	10-<30km
180	Railroad and road expansion	>100km	≥50 – 100km	10-<50km
181	Road in protected areas	>30km	≥ 10-30 Km	10km
182	Road widen in protected area	>50km	≥ 10-50 km	10km

Source: Prakas No. 021 PRK.BST dated 03 February 2020.

3.1.3 Occupational and Community Safety and Health

46 Government Occupational and Community Safety and Health (OHS) guidelines follow the OHS Program for Cambodia (2010-2013) that was developed by the International Labor Organization (ILO). The draft guidelines provide the framework for instituting OHS at the workplace and in the community. The OHS guidelines for Cambodia will likely need to be supplemented with the international the IFC EHS/OHS Guidelines for Construction and Decommissioning, Waste Management Facilities, and Toll Roads.

47 Additionally, the National MoH's guideline on Covid-19 and National Guideline for Infection prevention and control for healthcare facilities of Cambodia will be applied due to the current situation in respect of the Covid-19 outbreak to reduce the incidence and risk of preventable Nosocomial Infection (NI). Occupational and community health and safety, as laid out in the EHS guidelines, will be a cross-cutting assessment for the subprojects.

48 The Ministry of Labor and Vocational Training (MLVT) has the following guidelines which will be implemented during the construction phase of the Project:

- MLVT Prakas2 No. 075/11 K.B/BR.K (March 2011) - Sanitation at the Construction Site: The Prakas sets to ensure that the sanitation and safety conditions are fulfilled for workers at construction sites by owners, directors, contractors or sub-contractors of construction establishments or construction companies. Articles 3 and 4 ensure that workers are provided with shelter, sanitation facilities and safe potable water for drinking and washing.
- MLVT Prakas No. 076/11 K.B/BR.K (March 2011) - The Protection of Risk Resulting From Climate Change at Construction Sites. Articles of this Prakas require safety measures and break times for workers at the construction site during extreme weather events.
- MLVT Prakas No. 077/11 K.B/BR.K (March 2011) - Providing of Information at the Construction Site. This Prakas states requirements for owners or responsible persons of a construction site to provide information, i.e. name and address of the owner of enterprise, construction establishment, Construction Company, name and address of architect, nature of construction, date for the start of the construction, estimated time

to finish the construction works, and estimated number of workers to be employed for construction activities.

- MLVT Prakas No. 078/11 K.B/BR.K (March 2011) - Stock of Materials, Waste Disposal and Clearance at Construction Site. This Prakas provides safety guidelines and requirements for the safe storage of construction of materials and hazardous substances/objects that can pose health and safety risks to workers.

49 The key national environmental quality standards applied to the subproject are listed in Table-3-3 below together with relevant international guidelines.

Table-3-3: Key National and International Environmental Standards and Guidelines

Environmental Issue	National Standards	International Guidelines
Ambient air quality	Annex 1, Ambient Air Quality Standard, of Sub-decree on Control of Air Pollution and Noise Disturbance, 2000	WHO Air Quality Guidelines, global update 2005
Noise	Annex 6, Max. Standard of Noise Level Allowable in the Public and Residential Areas, of Sub-decree on Control of Air Pollution and Noise Disturbance, 2000	WHO Guidelines for Community Noise, 1999
Surface water quality	Sub-decree No. 27 ANRK/BK 1999 on Water Pollution Control: Annex 4, Water Quality Standards for Public Waters for the Purpose of Biodiversity Conservation, and Annex 5, Water Quality Standards for Public Waters and Health	US EPA National Recommended Water Quality Criteria Mekong River Commission (MRC)_ Technical Guidelines for the Protection of Aquatic Life MRC Technical Guidelines for the Protection of Human Health

3.1.4 **Applicable Evaluation Ambient Quality Standards**

50 Water quality standard in public water area for public health protection is shown in Table-3-4 below.

Table-3-4: Water quality standard in public water areas for public health protection

No.	Parameter	Unit	Surface water Standard
1	Carbon tetrachloride	µg/l	< 12
2	Hexachloro-benzene	µg/l	< 0.03
3	DDT	µg/l	< 10
4	Endrin	µg/l	< 0.01
5	Dieldrin	µg/l	< 0.01
6	Aldrin	µg/l	< 0.005
7	Isodrin	µg/l	< 0.005
8	Perchloroethylene	µg/l	< 10
9	Hexachlorobutadiene	µg/l	< 0.1
10	Chloroform	µg/l	< 12
11	1,2 Trichloroethylene	µg/l	< 10
12	Trichloroethylene	µg/l	< 10
13	Trichlorobenzene	µg/l	< 0.4
14	Hexachloroethylene	µg/l	< 0.05
15	Benzene	µg/l	< 10
16	Tetrachloroethylene	µg/l	< 10
17	Cadmium	µg/l	< 1

Source: Annex 5 of Sub-decree No 27 ANRK.BK on Water Pollution Control, 2009

51 Water quality standards in public water areas for biodiversity conservation is shown in Table-3-5 below.

Table-3-5: Water quality standard in public water areas for bio-diversity conservation

Parameter	Unit	Standard Value		
		River	Lake/Reservoir	Coastal Water
pH		6.5-8.5	6.5-8.5	7.0-8.3
BOD5	mg/l	1-10	NV	NV
Suspended Solid	mg/l	25-100	1-15	n/a
Dissolved Oxygen	mg/l	2.0-7.5	2.0-7.5	2.0-7.5
Coliforms	MPN/100ml	<5000	<1000	<1000
COD	mg/l	NV	1-8	2-8
Total Nitrogen	mg/l		0.1 – 0.6	0.2– 1.0
Total Phosphorus	mg/l		0.005– 0.05	0.02 – 0.09
Oil content	mg/l	NV	NV	0

NV=No value

Source: Annex 4 of Sub-decree on No 27 ANRK.BK Water Pollution Control, 2009.

52 Ambient Air Quality Standards are shown in Table-3-6below.

Table-3-6: Ambient Air Quality Standard

Parameters	Cambodia ^a				IFC-EHS ^b Guidelines WHO
	Period 1h Average mg/m3	Period 8h Average mg/m3	Period 24h Average mg/m3	Period 1year Average mg/m ³	interim target1 ug/m3
Carbon monoxide (CO)	40	20	-	-	
Nitrogen dioxide (NO ₂)	0.3	-	0.1	-	40 (1yr.) 200 (1 hr.)
Sulfur dioxide (SO ₂)	0.5	-	0.3	0.1	500 (10 min) 125 (24hr.)
Ozone (O ₃)	0.2	-	-	-	100 (8 hr. daily)
Lead (Pb)	-	-	0.005	-	
Particulates	-	-	0.33	0.1	150 (PM ₁₀ 24hr) 75 (PM _{2.5} 24hr)

^a Sub-decree N0 42 ANRK.BK on Air Pollution Control and Noise Disturbance.

^b Environmental, Health, and Safety Guidelines, IFC.

Maximum permitted noise levels in public and residential areas are shown in Table-3-7 below.

Table-3-7: Maximum permitted noise level in public and residential area (dB (A))

Location	Cambodian Standard			IFC-EHS Guidelines	
	06:00 to 18:00	18:00 to 22:00	22:00 to 6:00	Day 7:00 to 22:00	Night 22:00 to 7:00
Silence Area Hospital; Library, School, Nursery	45	40	35	55	5
Resident Area Hotel; Administration place, House	60	50	45		

Commercial, Services Areas and mix	70	65	50	70	70
Small Industrial factories intermingling in residential areas	75	70	50		

Note: This standard is applied to control of noise level of any source of activity that emitted noise into the public and residential areas.

Source: Annex 6 of Sub-Decree on Air Pollution Control and Noise Disturbance, 2000

3.1.5 International Conventions

53 Cambodia is a signatory to many international environmental treaties and conventions which provide a comprehensive legal framework. These include:

- Biodiversity Convention in 1994;
- Convention on International Trade in Endangered Species of Fauna and Flora (CITES) in 1997;
- Ramsar Convention in 1999;
- United Nations Framework Convention on Climate Change (UNFCCC), 1992, entered into force on 21 March 1994 (Cambodia ratified on 18 December 1995);
- Kyoto Protocol 1997, entered into force on 16 February 2005 (Cambodia accessed on 22 August 2002);
- Vienna Convention for the Protection of the Ozone Layer, entered into force on 22 September 1988 (Cambodia accessed on 27 June 2001);
- Montreal Protocol on Substances that Deplete the Ozone Layer, 1987, entered into force on 1 January 1989 (Cambodia accessed on 27 June 2001);
- The International Convention for the Prevention of Marine Pollution from Ships, 1973 as modified by the Protocol of 1978 relating thereto “MARPOL 73/78”, fully entered into force on 2 October 1983 (Cambodia ratified on 1994);
- Basel Convention on the Control of Trans-boundary Movements of Hazardous Wastes and their Disposal, entered into force on 5 May 1992 (Cambodia accessed on 02 March 2001);
- United Nations Convention to Combat Desertification, entered into force on 26 December 1996 (Cambodia ratified on 18 August 1997);
- Convention on International Trade in Endangered Species of Wild Fauna and Flora, entered into force on 01 July 1975 (Cambodia ratified on 04 July 1997);
- Cambodia joined the UNESCO Network of Biosphere Reserves in 1997. It committed to the Millennium Development Goals and subsequently endorsed the Sustainable Development Goals at the UN General Assembly in 2015;
- At the regional level, it ratified the following ASEAN Agreements: (a) on Transboundary Haze Pollution in 2006; and (b) on Disaster Management and Emergency Response, which entered into force in 2009; and
- At the subregional level, Cambodia, along with Lao PDR, Thailand and Viet Nam, signed the “Agreement on the Cooperation for the Sustainable Development of the Mekong River Basin” (or the Mekong Agreement) in April 1995.

3.2 Application of AIIB, IFAD and GCF Environmental, Social, and Climate Risks Standards/Procedures

3.2.1 AIIB’s Environmental and Social Framework

54 The objectives of this ESF are to:

- Reflect institutional aims to address environmental and social risks and impacts in Projects (defined below in *Section II, Definitions*, of the ESP).
- Provide a robust structure for managing operational and reputational risks of the Bank and its shareholders in relation to Projects’ environmental and social risks and impacts.
- Support the environmental and social soundness and sustainability of Projects.

- Facilitate the integration of environmental and social aspects of Projects into the decision-making process by all parties.
- Provide a mechanism for addressing environmental and social risks and impacts in Project identification, preparation and implementation.
- Enable Clients (defined below in *Section II, Definitions*, of the ESP) to identify and manage environmental and social risks and impacts of Projects, including those of climate change.
- Provide a framework for public consultation and disclosure of environmental and social information in relation to Projects.
- Provide a grievance redress mechanism designed to enable Project-affected people to voice their concerns and grievances in connection with the environmental and social aspects of Projects.
- Improve development effectiveness and impact to increase results on the ground, in both the short and long term.
- Support Clients, through Bank financing of Projects, to strengthen their environmental and social management systems.
- Support Clients, through Bank financing of Projects, to implement their obligations under national environmental and social legislation (including under international agreements adopted by the Member) governing these Projects, including commitments relating to climate change.
- Support Clients, where feasible and appropriate, to mobilize resources for technical assistance for the preparation of environmental and social documents and capacity enhancement.
- Facilitate cooperation on environmental and social matters with development partners.

3.2.2 *AIIB's Environmental and Social Standards*

3.2.3 *Environmental and Social Standard 1: Environmental and Social Assessment and Management Scope and Application:*

55 Environmental and Social Standard (ESS) 1 applies if the Project is likely to have adverse environmental risks and impacts or social risks and impacts (or both). The scope of the environmental and social assessment and management measures are proportional to the risks and impacts of the Project. ESS 1 provides both for quality environmental and social assessment and for management of risks and impacts through effective mitigation and monitoring measures during the course of Project implementation.

- **Environmental coverage:** Environmental Risks and Impacts, Biodiversity Consideration, protected areas, ecosystem services, sustainability of land and water use, precautionary approach, pollution prevention, resource efficiency, climate change and greenhouse gases.
- **Social coverage:** Social Risks and Impacts, Scope of Social Coverage, Vulnerable/Disadvantaged Groups and Discrimination, Gender, Gender-based violence, Land and Natural Resource Access Loss of access to assets or resources or restriction on land use, Cultural resources
- **Health and safety:** health and safety of workers and communities, occupational health and safety, labor influx, building safety, traffic and road safety, security personnel, safety of dam.
- **Labor and Working conditions:** labor management relationships, civil servants, child labor and forced labor,

3.2.4 *Environmental and Social Standard 2: Land acquisition and involuntary resettlement*

56 **Scope and Application.** ESS 2 applies if the Project would or may involve Involuntary Resettlement (including Involuntary Resettlement of the past or foreseeable future that the Bank determines is directly linked to the Project).

3.2.5 *Environmental and Social Standard 3: Indigenous Peoples*

57 **Scope and Application:** ESS 3 applies if Indigenous Peoples are present in, or have a collective attachment to, the proposed area of the Project, and are likely to be affected by the Project.

The term Indigenous Peoples is used in a generic sense to refer to a distinct social and cultural group possessing the following characteristics in varying degrees:² (a) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (b) collective attachment to geographically distinct habitats, ancestral territories or areas of seasonal use or occupation in the Project area and to the natural resources in these areas; (c) customary cultural, economic, social or political institutions that are distinct or separate from those of the dominant society or culture; and (d) a distinct language or dialect, often different from the official language or languages of the country or region in which they live. In considering these characteristics, national legislation, customary law and any international conventions to which the Member in whose territory the Project is located is a party may be taken into account. A group that has lost collective attachment to geographically distinct habitats or ancestral territories in the Project area because of forced severance remains eligible for coverage as an Indigenous People, under ESS 3.

3.2.6 ***Application of IFAD and GCF Environmental, Social, and Climate Risks Standards/Procedures***

58 Based on the IFAD SECAP and GCF ESS, the following safeguards documents were prepared: (i) Environmental and Social Management Framework (ESCMF) including climate considerations; (ii) Indigenous Peoples' Plan (IP Plan); (iii) Stakeholder Engagement Plan (SEP); and (iv) Gender Assessment & Action Plan (GAP). The documents have been publicly disclosed in advance of implementation and board approval to respect the Pelosi Amendment¹⁴ as a best practice, even though the project is not high or substantial risk (the risk rating is only moderate), and the documents collectively respond to the standards described below.

3.2.7 ***SECAP's Environment and Social Standards (ESSs) are described as below:***

- Standard 1: Biodiversity Conservation;
- Standard 2: Resource Efficiency and Pollution Prevention;
- Standard 3: Cultural Heritage
- Standard 4: Indigenous Peoples
- Standard 5: Labour and Working Conditions
- Standard 6: Community Health and Safety;
- Standard 7: Physical and Economic Resettlement;
- Standard 8: Financial Intermediaries and Direct Investments;
- Standard 9: Climate Change

59 Not explicitly listed as a standard, but considered a vital part of project design, implementation, and safeguarding is stakeholder engagement. Provisions to ensure meaningful engagement are provided within the Stakeholder Engagement Plan and initial feedback and engagement was mainstreamed into the project design.

The scope of the safeguard standards are detailed in Table-3-8.

Table-3-8: Scope of Safeguards Standards

Safeguards Standard	Scope
Standard 1: Biodiversity Conservation	<p>Scope: In accordance with the Convention on Biological Diversity (CBD), this standard recognizes that biodiversity is about more than plants, animals and micro-organisms, and includes people and their need for food security, medicines, fresh air and water, shelter, and a clean and healthy environment. Key objectives include:</p> <ul style="list-style-type: none"> • Maintain and conserve biodiversity

¹⁴ The 1989 Pelosi Amendment requires disclosure of environmental impacts at least 120 days prior to board approval for high- and sometimes substantial-risk projects (URL: <https://www.gao.gov/archive/2000/ns00192.pdf>)

Safeguards Standard	Scope
	<ul style="list-style-type: none"> • Ensure the fair and equitable sharing of benefits from the utilization of generic resources; • Respect, preserve, maintain, and encourage knowledge, innovations, and practices of indigenous peoples and local communities relevant for the conservation and sustainable use of biodiversity, and their customary use of biological resources; and • Adopt a precautionary approach to natural resource conservation and management to ensure opportunities for environmentally sustainable development.
Standard 2: Resource Efficiency and Pollution Prevention	<p>Scope: This Standard recognizes that economic activity and development can often pollute the air, water, and land. They may also result in the consumption of finite resources, which may in turn threaten people, ecosystem services and the environment. It advocates for a precautionary approach with the following objectives:</p> <ul style="list-style-type: none"> • Avoid, minimize and manage the risks and impacts associated with hazardous substances and materials, including pesticides; • Avoid or minimize project-related emissions of short- and long-lived climate pollutants; • Promote more sustainable use of resources, including energy, land and water; and • Identify opportunities for improving resource efficiency.
Standard 3: Cultural Heritage	<p>Scope: This Standard recognizes that cultural heritage is central to individual and collective identity and memory, providing continuity between the past, present, and future. Objectives include:</p> <ul style="list-style-type: none"> • Preserve and safeguard cultural heritage; • Ensure that active efforts are made to prevent IFAD-supported projects from altering, damaging or removing any tangible or intangible cultural heritage; • Promote the equitable sharing of benefits from the use of cultural heritage; and • Promote meaningful consultation on matters related to cultural heritage.
Standard 4: Indigenous Peoples	<p>Scope: This standard focuses on the rights of Indigenous Peoples and promotes the following objectives:</p> <ul style="list-style-type: none"> • Support indigenous peoples to determine priorities and strategies for exercising their right to development; • Ensure that each project is designed in partnership with indigenous peoples and with their full, effective and meaningful consultation, leading to FPIC; • Ensure that indigenous peoples obtain fair and equitable benefits and opportunities from project-supported activities in a culturally appropriate and inclusive manner; and • Recognize and respect the rights of indigenous peoples to the lands, territories, waters and other resources that they have traditionally owned, used or relied upon.
Standard 5: Labour and Working Conditions	<p>Scope: This standard is focused on fostering inclusive, diversified, and productive rural economies that create opportunities for decent work and higher incomes. Objectives of this standard are to:</p> <ul style="list-style-type: none"> • Promote direct action to foster decent rural employment;

Safeguards Standard	Scope
	<ul style="list-style-type: none"> • Promote, respect and realize fundamental principles and rights by: <ul style="list-style-type: none"> ○ Preventing discrimination and promoting equal opportunities for workers; ○ Supporting freedom of association and the right to collective bargaining; and ○ Preventing the use of child labour and forced labour; • Protect and promote the safety and health of workers; • Ensure that projects comply with national employment and labour laws, and international commitments; • Leave no one behind by protecting and supporting workers in disadvantaged and vulnerable situations, including women (e.g. maternity protection), young workers, migrant workers, workers in the informal economy and workers with disabilities.
Standard 6: Community Health and Safety	<p>Scope: These standard stresses avoiding – and where avoidance is not possible, minimizing and mitigating – health-related and safety-related risks and impacts that may arise from IFAD-supported projects, with special attention to marginalized and disadvantaged groups. Objectives include to:</p> <ul style="list-style-type: none"> • Ensure quality and safety in the design and construction of programming-related infrastructure, preventing and minimizing potential safety risks and accidents; • Avoid or minimize community exposure to disaster risks, diseases and hazardous materials associated with project activities; • Ensure that the safeguarding of personnel and property minimizes risks to communities and is carried out in accordance with international human rights standards and principles; and • Have in place effective measures to address emergency events, whether human-made or natural hazards.
Standard 7: Physical and Economic Resettlement	<p>Scope: This Standard not only considers resettlement as the physical relocation of people but as economic, social and cultural displacement restricting people's access to livelihoods and culturally important sites. Objectives include to:</p> <ul style="list-style-type: none"> • Avoid involuntary resettlement or, when unavoidable, minimize involuntary resettlement by exploring alternative project designs and sites; • Avoid forced eviction; • Ensure that resettlement activities are planned and implemented collaboratively with the meaningful participation of affected people; • Enhance and restore the livelihoods of all displaced peoples; and • Provide explicit guidance to borrowers/recipients/partners on the conditions that need to be met regarding involuntary resettlement.
Standard 8: Financial Intermediaries and Direct Investments	<p>Scope: This Standard recognizes that investments in FIs (indirect investments) and private-sector companies (direct investments) are critical for promoting sustainable financial markets and providing financial products and services to farming businesses and rural micro, small and medium-sized enterprises. Objectives include to:</p>

Safeguards Standard	Scope
	<ul style="list-style-type: none"> • Promote sound environmental, social and climate practices, and sound human resource management with FIs and direct investees; • Ensure that FIs and direct investees assess and manage any environmental and social risks and impacts of subprojects; and • Promote good environmental and social management practices by direct investees and in the subprojects financed by FIs.
Standard 9: Climate Change	<p>Scope: This standard is focused actively considering, planning for, and responding to projected climate changes. Objectives include to:</p> <ul style="list-style-type: none"> • Ensure alignment of IFAD-supported projects with the Nationally Determined Contributions of countries and the goals of the Paris Agreement and other international frameworks; • Ensure that proposed activities are screened and assessed for climate change and disaster risks and impacts, including both impacts of projects and on them; • Apply the mitigation hierarchy in project design; • Strengthen the resilience of communities to address the risk of climate change impacts and climate-related disasters; and • Increase the ability of communities to adapt to the adverse impacts of climate change, and foster climate resilience and low GHG-emitting projects that do not threaten food production.

3.3 Gap Analysis and Gap Filling Measures

60 IFAD classifies projects and subprojects into one of four classifications: *high risk, substantial risk, moderate risk* or *low risk* and discloses a project's risk classification and basis for that classification in project documents and on the IFAD website. GCF classifies projects and subprojects into one of three classifications: high risk, moderate risk, or low risk, however the GCF accepts the standards and risk classifications of Accredited Entities, like IFAD, thus for this project (and to simplify approval for IFAD-funded activities) the ESCMF utilizes the IFAD classifications.

61 The assessment identified key gaps between the county's legal system and international recognized environmental and social standards (e.g. AIIB, IFAD, GCF) and priority needs to ensure full compliance of the ESSs. The conclusion was that Cambodia has a comprehensive regulatory framework that in many cases meets the requirements of the ES standards, and key issues are more associated with implementation and differentiated capacities between the central and provincial PMUs and the provinces. There are opportunities to accelerate implementation of recent improvements in the country system, especially on labour, community safety, and stakeholder engagement.

62 Based on the project's high or category A risk rating for environment, social, and climate considerations, national regulations are adequate for most of the investments, while additional gap-filling measures will be applied for the preparation of an Environmental, Social and Climate Impact Assessment (ESCIA) for the overall project particularly related to the civil works so that contractors and implementation partners can adequately address issues related to contract management, safety of local communities, and workers. Capacity building efforts pertaining to regulation and oversight are also incorporated as part of the safeguards management of the CAISAR project and as part of the project design (e.g. under Component 2 activities).

63 There are key gaps between the environmental, social, and climate assessment requirements of the Asian Infrastructure Investment Bank (AIIB), International Fund for Agricultural Development (IFAD), Green Climate Fund (GCF), and the Cambodian Government.

64 One key difference is the scope of their assessments. The AIIB and GCF focus on infrastructure and climate projects, while IFAD focuses on agricultural development. As a result, the types of environmental and social risks and impacts that are assessed may differ.

65 Another difference is the level of detail required in the assessments. The AIIB requires a comprehensive Environmental and Social Framework (ESF) that covers all projects, while the GCF requires a simplified Environmental and Social Management System (ESMS) that is tailored to each project. IFAD requires an Environmental and Social Assessment (ESA) that is specific to each project.

66 In terms of climate assessments, the GCF requires a detailed assessment of the project's potential greenhouse gas emissions and its contribution to climate change mitigation and adaptation. The AIIB also considers climate risks and opportunities in its project assessments but does not require a specific climate assessment. Cambodia's Environmental Impact Assessment (EIA) requirements do not explicitly specify climate assessment procedures. However, the EIA process does consider the potential impacts of projects on the environment, which includes climate-related factors. The assessment typically covers aspects such as air quality, water resources, biodiversity, and social impacts, which indirectly address climate considerations.

67 Overall, while there are some similarities in the environmental, social, and climate assessment requirements of these institutions, there are also key differences that reflect their different mandates and priorities.

68 A detailed list of the Green Climate Fund's climate assessment requirements for an irrigation and flood protection project in Cambodia require:

1. Project description: The project description should include a detailed description of the irrigation and flood protection project in Cambodia, including the location, size, and scope of the project, as well as the expected benefits and impacts.
2. Climate rationale: The project should have a clear climate rationale that explains how it will contribute to climate change mitigation and adaptation. This should include an analysis of the project's potential greenhouse gas emissions and its contribution to reducing emissions.
3. Baseline emissions: The project should include a baseline emissions assessment that estimates the greenhouse gas emissions that would occur in the absence of the project.
4. Project emissions: The project should estimate the greenhouse gas emissions that will be generated by the project, including direct and indirect emissions.
5. Mitigation potential: The project should assess its potential to reduce greenhouse gas emissions and contribute to climate change mitigation. This should include an analysis of the project's potential to reduce emissions compared to the baseline scenario.
6. Adaptation potential: The project should assess its potential to contribute to climate change adaptation, including an analysis of the project's ability to increase resilience to climate change impacts such as flooding and drought.
7. Co-benefits: The project should identify and assess any co-benefits that may result from the project, such as improved food security, increased access to water, or improved livelihoods.
8. Risks and uncertainties: The project should identify and assess any risks and uncertainties associated with the project, including potential environmental, social, and economic risks.
9. Monitoring and evaluation: The project should include a monitoring and evaluation plan that outlines how the project's greenhouse gas emissions, climate change mitigation and adaptation impacts, and co-benefits will be monitored and evaluated over time.

69 Overall, the Green Climate Fund's climate assessment requirements for an irrigation and flood protection project in Cambodia are designed to ensure that the project is aligned with the Fund's climate change objectives and that its potential greenhouse gas emissions and contributions to climate change mitigation and adaptation are carefully evaluated.

70 It is important to ensure that the environmental, social, and climate assessments of an irrigation and flood control project in Cambodia meet both the requirements of the international organizations as well as the legal requirements of the Cambodia government. This will help to ensure that the project is implemented in a way that is legally compliant and meets international standards for environmental and social sustainability and climate change mitigation and adaptation.

3.3.1 Environmental, Social and Climate Assessment in Cambodia

71 The Environmental Impact Assessment (EIA) process in Cambodia faces several issues that hinder its effectiveness and transparency. Some of the key issues include:

- 1 Limited public participation: The EIA process in Cambodia often lacks meaningful public participation. Communities and affected stakeholders are not adequately informed or involved in decision-making processes, limiting their ability to provide input, voice concerns, and influence project outcomes.
- 2 Inadequate assessment quality: The quality of environmental impact assessments conducted in Cambodia is often criticized for being insufficient and not meeting international standards. This can result in inaccurate or incomplete assessments, leading to inadequate identification and mitigation of potential environmental and social impacts.
- 3 Lack of independence: The EIA process in Cambodia suffers from a lack of independence, as project proponents are often responsible for conducting and financing their own environmental impact assessments. This can create conflicts of interest and raise concerns about the credibility and objectivity of the assessment process.
- 4 Weak enforcement and compliance: Despite having regulations in place, the enforcement of EIA requirements and conditions is often weak in Cambodia. This can lead to non-compliance by project developers, with inadequate monitoring and enforcement mechanisms to ensure adherence to environmental safeguards.
- 5 Limited capacity and resources: Cambodia faces challenges in terms of limited technical capacity and resources for conducting robust environmental impact assessments. Insufficient expertise and resources can result in inadequate assessments and monitoring, compromising the effectiveness of the EIA process.
- 6 Lack of transparency and accountability: The EIA process in Cambodia lacks transparency, with limited public access to information and documentation related to environmental impact assessments. This lack of transparency hampers accountability and the ability of affected communities to understand and challenge project decisions.

72 While climate change is not explicitly mentioned in the Cambodian EIA requirements, the government has recognized the importance of climate change mitigation and adaptation. The country has developed policies and strategies to address climate change, such as the National Adaptation Plan and the National Climate Change Strategic Plan. These initiatives aim to integrate climate change considerations into various sectors, including infrastructure development and land use planning.

73 In recent years, there has been recognition globally of the need to include climate change considerations in the EIA process. This includes assessing the potential greenhouse gas emissions, vulnerability to climate impacts, and the resilience of projects to climate change.

74 In conclusion the ESCIA requirements of AIIB, IFAD, GCF and the Cambodian government are similar intent and must include the specific climate assessment requirements as defined by GCF.

3.3.2 Labor and Working Conditions in Cambodia

75 Cambodia's labor law does address various aspects related to child labor, gender equality, forced labor, and occupational health and safety. However, it is important to note that there are still challenges in effectively enforcing these laws and ensuring full compliance across all sectors.

76 Regarding child labor, Cambodia's labor law prohibits the employment of children under the age of 15 in any economic activity. However, there are exceptions for light work that is not harmful to their health and development, and the law also allows for children aged 12 to 15 to engage in light work with certain restrictions. Despite these regulations, child labor remains a concern in Cambodia, particularly in sectors such as agriculture, construction, and informal work.

77 In terms of gender equality, Cambodia's labor law prohibits discrimination based on gender in recruitment, remuneration, promotion, and other employment-related matters. It also guarantees equal

pay for equal work. However, gender-based discrimination and disparities in the labor market, including lower wages for women and limited representation in higher-level positions, continue to persist.

78 Regarding forced labor, Cambodia's labor law explicitly prohibits any form of forced or compulsory labor. It also prohibits debt bondage and human trafficking. However, forced labor remains a significant issue, particularly in sectors such as agriculture, construction, and domestic work. The government has taken steps to combat this problem, including establishing mechanisms for reporting and addressing cases of forced labor.

79 Occupational health and safety is another area addressed by Cambodia's labor law. The law requires employers to provide a safe and healthy working environment, including measures to prevent accidents, injuries, and occupational diseases. It also mandates the establishment of workplace safety committees and the provision of training on occupational health and safety. However, the enforcement of these regulations and the implementation of effective safety measures can be challenging, particularly in sectors with informal or hazardous working conditions.

80 In summary, while Cambodia's labor law does address child labor, gender equality, forced labor, and occupational health and safety, there are still gaps in enforcement and compliance. Efforts are needed to strengthen the implementation of these laws and ensure the protection of workers' rights in practice.

81 Systematic labor inspection heavily relies on self-reporting, especially when construction contractors and primary suppliers are involved. For this reason, a template for Labor Management Procedures (See template at Annex 15) must be included in bidding documents of contracted workers. For primary suppliers of materials, the practice of conducting due diligence on labour and working conditions among potential sources of aggregate material is uncommon. Therefore, a monitoring procedure must be established prior commencement of related works, and the site-specific ESA must assess potential labor issues, including risks of child and forced labour for suppliers and in the value chains relevant for the CAISAR project, and other health hazards on workers due to waste management and handling of any related hazardous materials during construction to ensure compliance with national laws and Standards. MOWRAM as the Lead Agency of the CAISAR project must ensure that OHS procedures and a working grievance redress mechanism are stipulated within the contract, including the system for monitoring third party contractors' compliance with the agreed OHS procedures and GRM.

82 The following OHS risks are identified, including:

a) Occupational Health and Safety (OHS) Risks:

Contractors will be required to develop and implement the Contractor's Labor Management Procedures (C-LMP) as part of C-ESMP, including procedures to establish and maintain a safe working environment as per requirements of ESS2.

Physical Hazards. Physical hazards represent potential for accident or injury or illness due to repetitive exposure to mechanical action or physical activities. Physical hazards may result in a wide range of injuries, from minor that needs medical aid only, to disabling, catastrophic, and/or fatal.

- Accidents due to falls: falling from ladders, scaffoldings, and vehicles, etc.
- Accident due to falling objects: Tools, machinery, equipment and materials used during construction may fall from the height, causing injuries or death.
- Fall into open holes: holes, manhole, and areas of deep excavation may be commonly found at works. Fall into these holes may cause injuries of various degrees.
- Physical injury related to the operations of heavy equipment: Injury or death may result during operations of heavy equipment, such as crane, excavator, cuts and bruises on sharp objects etc.
- Accidents due to prolonged exposure to sunlight (during dry season), rain and flood, etc.

Chemical hazards. Chemical hazards represent potential for illnesses or injuries, both short and long term, and fatalities due to single acute exposure or chronic repetitive exposure to toxic, corrosive, sensitizing or oxidative substances. Common chemicals used in construction include Portland cement clinker (mineral binders), formaldehyde (wood-based materials), polyurethane, vinyl, cadmium or lead (paints and resins), and solvents. They also represent a risk of uncontrolled reactions, including the risk of fire and explosion, if incompatible chemicals are inadvertently mixed.

- Fire and Explosions. Fires and or explosions resulting from ignition of flammable materials or gases can lead to loss of property as well as possible injury or fatalities to project workers.
- Corrosive, oxidizing, and reactive chemicals. Corrosive, oxidizing, and reactive chemicals present similar hazards and require similar control measures as flammable materials.

Personal Protective Equipment. PPE provides additional protection to workers exposed to workplace hazards in conjunction with other facility controls and safety systems. Worker may sustain physical injuries if they do not have access to the proper PPE.

Working Time: Civil work project sites are most likely to be in remote areas. For safety reasons, the project should require contractors, whenever possible, to allow workers to work during daytime. In case night shift is required because of the urgency of the work, proper safety measures, including sufficient lighting and surrounding security, must be taken.

Risk of wild animal. When workers work the command that are in remote area, near forest, wetland, there is a risk of being bitten by snake. Some snakes are venomous.

Risk of lack of hygiene at workers' camp: There is a risk of lack of hygiene condition at workers' camp. This risk is related to lack of adequate supply of potable water, washing facilities, sanitation, accommodation, and cooking facilities which may affect the hygiene and health condition of workers, and their health status as a result.

3.3.3 Social risks related to Child Labor, Forced Labor, and Gender Based Violence

Child Labor

83 Country context. According to ILO (2012), in Cambodia, 51% of children¹ (generally from 5-17 years of age) work in agriculture, forestry and fishing, 20% in manufacturing, 12% in wholesale, retail trade, repair, and 6% in construction. Children from 15-15 years of age makes up 47%, followed by 12-14 (35%). 48% worked as employee, and 49% worked as unpaid family workers. Consulting firm Verisk Maplecroft has ranked Cambodia 28th in the world and the highest risk in Southeast Asia for the use of child labor in its 2020 index. In Cambodia, the Labor Law (1997) allows children as young as 12 years old to work in light and non-hazardous employment that does not interfere with their education. The minimum legal age for general employment in the country is 15 years and 18 years for hazardous work (as defined in the law). Child labor takes many different forms. However, a priority is to eliminate without delay the worst forms of child labor as defined by Article 3 of ILO Convention No. 18: "labor that jeopardizes the physical, mental or moral well-being of a child, either because of its nature or because of the conditions in which it is carried out (also known as 'hazardous work')". Prakas No.106 issued by MOSALVY on the Prohibition of Hazardous Child Labour lists 38 types of hazardous work. Paragraph 2 provides that hazardous works shall assume jeopardy to a child's health, security, or morals. Provision No. 15 requires that work carried out at construction sites, except in designated and safe areas for a child, must be specifically permitted by a labor inspector.

84 The Cambodian Government also signed the Convention on the Rights of the Child in 1992, ratified the Minimum Age Convention (No. 138). Cambodia's Labor Law provides that the minimum age for wage employment is 15 years of age. Provision No. 2 in article 177 of the Labor Law requires the minimum age be 18 years² for any kind of employment or work that could be hazardous to the health, safety or morals of an adolescent. According to Provision No. 4 in article 177, Labor Law 1997, children from 12-15 years of age can be hired to do light work provided that:

- a) The work is not hazardous to their health or mental and physical development; and
- b) The work will not affect their regular school attendance, their participation in guidance programs or vocational training approved by a competent authority.

85 Project screening. While child labor in the project provinces was not reported as an issue, the civil work under sub-schemes will take place in rural areas where child labor is common. As such, there is potential that children could be employed in unskilled jobs and/or could be working in the supply

¹ Based on International Labor Organisation's Cambodia -National Labour Force and Child Labour Survey 2012 (n= 9,600 households).

² National Institute of Statistics, Ministry of Planning; and International Labour Organization (ILO). 2013. Cambodia Labour Force and Child Labour Survey 2012 Child Labour Report. International Program on the Elimination of Child Labour (IPEC).

chain (such as in factories providing raw materials for road construction). The risk of child involvement in project's labor force (e.g., contractors' labor) is foreseen because subproject activities will take place in rural areas where use of child labor is common. There is a possibility that local people under 18 years is engaged by construction contractors and sub-contractors to perform unskilled works, and these workers may be from ethnic minority groups.

86 To ensure children are prevented from being engaged in typically heavy works at construction sites, all contractors under the sub-project are required to engage laborers of 18 years of age or above. The contractors are required to verify the workers' age using valid supporting documents (i.e., identification card or other certification by local authorities) before a contract is signed. The requirement for minimum working age (18 years of age) will be included in the bidding documents, and in work contract that PMU signs with each of the awarded contractors. Risks of engaging of child labor associated with primary supply workers will be screened and assessed once primary suppliers are identified by Contractors.

Forced Labor

87 Country context. Forced Labor refers to any work or service that are not voluntarily performed by an individual under threat of force or penalty. Forced labor includes situations where persons are coerced to work through use of violence or intimidation, manipulation of debt, retention of identity papers, threats, or other forms of retaliation. According to Cambodia's Labor Law 1997 (Article 15, Section V: Forced Labor, Chapter I: General Provisions of Cambodia's Labor Law), Forced or Compulsory Labor is absolutely forbidden in conformity with the International Convention No. 29 on forced or compulsory labor that was ratified by the Kingdom of Cambodia on February 24, 1969, and with the Abolition of Forced Labour Convention (No. 105) ratified on August 23, 1999. This article applies to everyone, including domestics or household servants and all workers in agricultural enterprises or businesses. As per Article 16, hiring of people for work to pay off debts is forbidden. Forced labor includes situations where persons are coerced to work through use of violence or intimidation, manipulation of debt, retention of identity papers, threats, or other forms of retaliation.

88 Although laws and re regulations against forced labor exist in Cambodia, there are claims that this is not strictly enforced, and there are particular "hotspot" areas such as brick kilns. Hiring of people to work in order to pay off their debt is considered forced labor.

89 Project screening. Since project's construction activities will take place mainly in rural area and where forced labor may take place in the form of unskilled labor under contractors and subcontractors' civil works, the risk of engaging of forced labor exist, and is potentially associated construction contractor's labor and labor engaged as primary supply workers. Forced labor could happen for both children under 18 and adults, particularly for households who are in high need to cash for specific family purpose (e.g. cover a medical bill, paying debt...). The risk of engaging of forced labor might be associated with workers that are considered as "primary supply workers".

Gender Based Violence

90 Country context. Cambodia has policies related on gender equality and prevention of gender based violence. Key legal documents include: Constitution of the Royal Government of Cambodia, particularly Article 45 (discrimination against women) mentioned that all forms of discrimination against woman shall be abolished...and the exploitation of women in employment shall be prohibited in marriages and matters of the family. The Law on Domestic Violence and the Protection of Victims (2005) forbid any form of domestic violence against husband, wife, children or older people. The National Action Plan to Prevent Violence against Women (NAPVAW) was developed in 2009 and constituted a significant landmark in the RGC's efforts to end VAW. Subsequent NAPVAWs sets forth a comprehensive framework for responding to and preventing VAW. The latest study by showed that 10% of women in the survey reported experiencing some form of sexual violence by an intimate partner. Overall, 21% of ever-partnered women aged 15-64 reported experiencing physical or sexual violence, or both, by an intimate partner in their lifetime and 8% had experienced it in the past 12 months. Reports of (at least one act of) emotional partner abuse were the highest at 32%, followed by

physical IPV (15%)³.

91 Project screening. The ESCIA study (completed in September 2024) under CAISAR suggested there are domestic violence reported through the study, particularly in Ou Ta Paong (15 cases), Lum Hach (13 cases), Brambei Mon (5 cases), Yutasas (5 cases), Steung Krang Bat (3 cases). Given the current GBV context at national and project level, the risk of GBV (induced) is anticipated due to construction activities, particularly due to influx of labor that increased social interaction between project's labor and community members.

3.3.4 ***Discrimination and exclusion of disadvantaged/ vulnerable groups***

92 Country context. Cambodia is a signatory to international human rights conventions that address women's human rights, including the Optional Protocol of the Convention for the Elimination of all forms of Discrimination against Women (CEDAW). Cambodia also has ratified ILO Conventions C100 (Equal Remuneration, 1951), C111 (Discrimination, Employment and Occupation, 1958). Under the Labor Law 1996, Article 12 (Section II: Non-discrimination, Chapter I General Provisions of Cambodia's Labor Law, 1997) specifies that except for provisions fully expressed under the Labor Law, or in any other legislative text or regulation protecting women and children, as well as provisions relating to the entry and stay of foreigners, no employers shall consider on the account of race, color, sex, creed, religion, political opinion, birth, social origin, membership of worker union or the exercise of union activities; to be invoked in order to make a decision on hiring, defining and assigning of work, vocational training, advancement, promotion, remuneration, granting of social benefits, discipline or termination of employment contract. Distinctions, rejections, or acceptances based on qualifications required for a specific job shall not be considered as discrimination. The employment of project workers will be based on the principle of equal opportunity and fair treatment. Any discrimination with respect to any aspects of the employment relationship, such as recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, or disciplinary practices, are prohibited.

93 Project screening. Vulnerable/disadvantaged people, such as the poor, people from ethnic minority group, women, etc., may be excluded from accessing temporary employment opportunities, such as those offered by construction contractors. People with disabilities may be excluded from appropriate access to road facilities. For instance, the road is not designed for safe crossing at intersections by local people with limited eyesight, difficulties walking, and/or people with blindness. Or the design is in place but is not effectively functioned due to lack of maintenance. Ensuring universal access, particularly for people with disabilities, especially in the context of disaster risks management (e.g. evacuation, rescues...) is important. Unequal wage payment on the account of gender may happen, particularly with local people engaged as unskilled workers.

Temporary workers

94 Local people, particularly those from vulnerable/disadvantaged groups, who are recruited as unskilled workers by project contractors, may not be offered a written working contract. As a result, there is a possibility that they may be underpaid for the nature, scope, and quantity of work that they undertake. They may also be asked to work under conditions that are hazardous to them, such as working without personal protective equipment as required for such work. Underpayment may also take place on the basis of gender, temporary work status – at the discretion of contractors.

4. ENVIRONMENT, SOCIAL & CLIMATE ASSESSMENT

4.1 Project Objective, Components, Areas and Beneficiaries

³ National Survey on Women's Health And Life Experiences in Cambodia (2015).

95 The project rationale is provided in Section 1.1. The Country and project context is provided in Section 1.2, and the CAISAR Project components are outlined in Chapter 2.

96 The CAISAR project has a broad positive impact benefitting approximately 120,000 households (500, 000 rural people) directly while its effect will propagate to over 3 million people in the region (CAISAR Feasibility Study 2023). The project will be executed through the Ministry of Water Resources and Meteorology (MOWRAM) and the National Committee for Sub-National Democratic Development Secretariat (NCDD-S), a Direct Access Accredited Entity to the GCF. The expected timelines for the approval of the co-financing by IFAD and AIIB Executive Boards are respectively September 2024 and January 2024, with the inception of the project is expected to take place in December 2024.

4.2 Project Area

97 The CAISAR project aims to enhance Cambodia's resilience against climate change through investments in innovative practices such as flood protection, drainage, and solar pumping, with a total estimated budget of \$280 million. The costs are distributed among different CAISAR objectives, with flood and drainage costing \$47.4 million, solar and raised tertiary costing \$82.1 million, and irrigation and storage costing \$150.6 million. The project is divided into three sub-projects, each with different requirements and costs. The CAISAR scheme is expected to improve yields and provide better drought resilience over the 25-year asset life, with the project expecting significant yield improvements in all three sub-project areas.

98 The core benefits of the project include food security in the face of climate change as well as significant economic contributions to poor rural households by enabling climate change resilient and adaptive agriculture as well as nationally important greenhouse gas emission reductions. The scheme will bring several indirect benefits improving the socio-economic situation for communities living within the command areas such as improved access to transport links, education and community strengthening through the establishment of FWUCs. The project is expected to be economically viable even under pessimistic assumptions, with the baseline internal rate of return for the project at 17%.

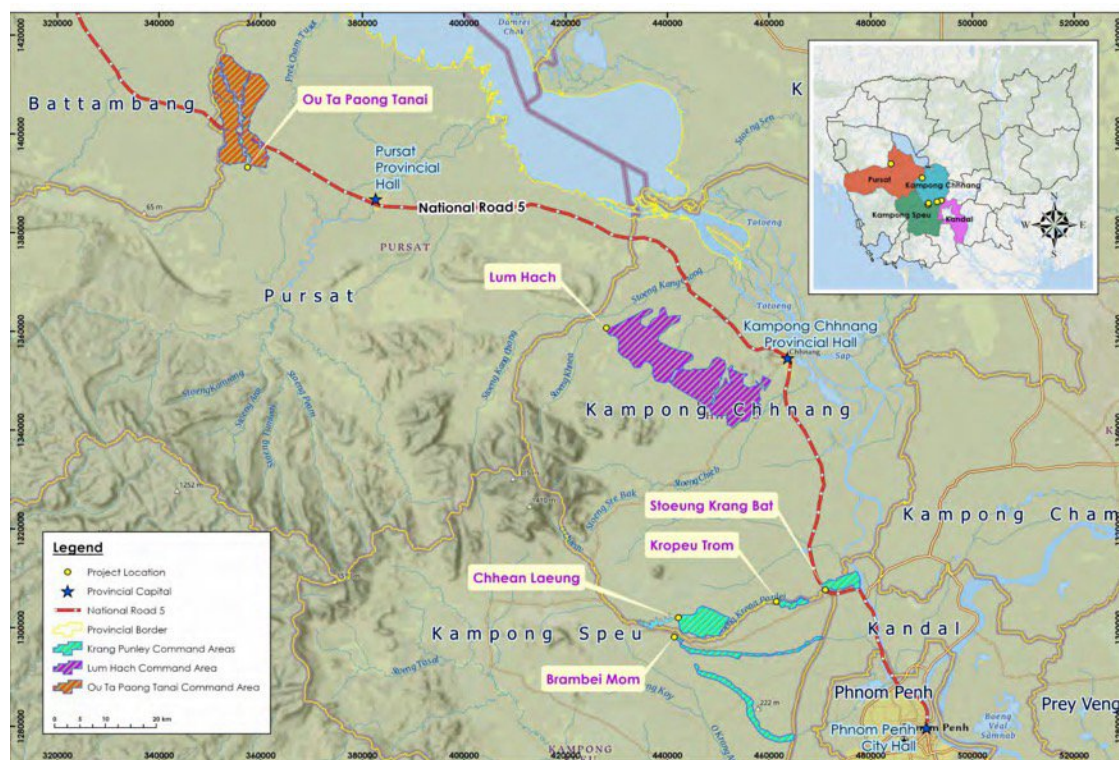
99 Through nature-based approaches including river restoration and rehabilitation and creation of natural ponds, the CAISAR project is expected to provide several environmental enhancements whilst ensuring that the environmental impacts of the construction and operational phases of the project are limited and mitigated where possible. In addition to this, the use of innovative climate-smart solutions will reduce the overall climate impact of the scheme and endeavor to reduce the emission of greenhouse gases from the existing and proposed agricultural practices with the introduction of solar pumps and Alternate Wetting and Drying techniques.

100 The character and existing farming systems differ widely in each sub project as will be described below. The CAISAR feasibility study covers a total command area of 45,000ha and is composed of three sub-project command areas – Ou Ta Paong, in Pursat Province, Lum Hach, in Kampong Chhnang Province and Krang Ponley in Kampong Chhnang, Kapong Speu and Kandal Province.

101 Detailed characteristics of the different sub-project command areas, with respect to historical and present-day conditions, temperature, precipitation, agricultural cover, and current water resources are presented in each Feasibility report for the corresponding projects which will be available to the team.

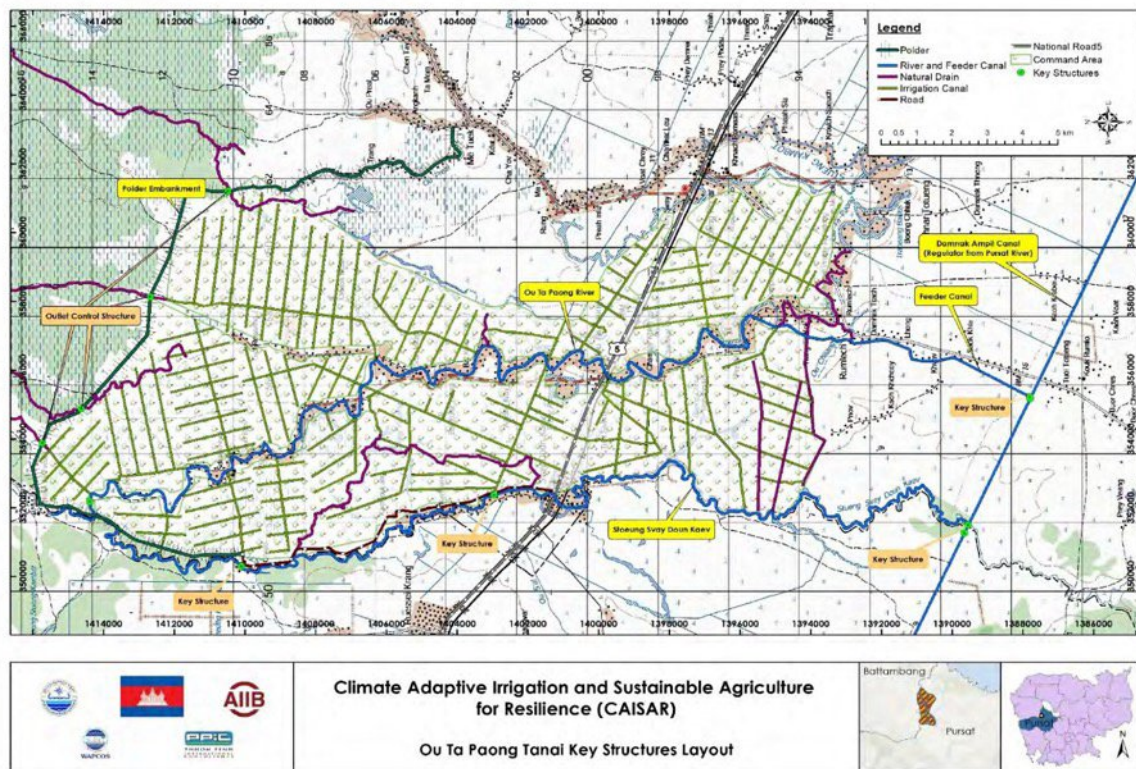
102 The sub-project areas, except for Kampong Chhnang, each have existing irrigation infrastructure which needs rehabilitation and/or has a suitable nearby water source that could enhance the agricultural output from the area and make it more resilient to the effects of climate change. The final command areas were then established based on field surveys and stakeholder consultations and

target areas that require the greatest assistance. Each sub-project area is currently experiencing or projected to experience challenges because of climate change and is therefore in need of climate adaptation and resilience measures. This work has been conducted in consultation with MOWRAM and the PDWRM to ensure that local information is considered at each project stage.



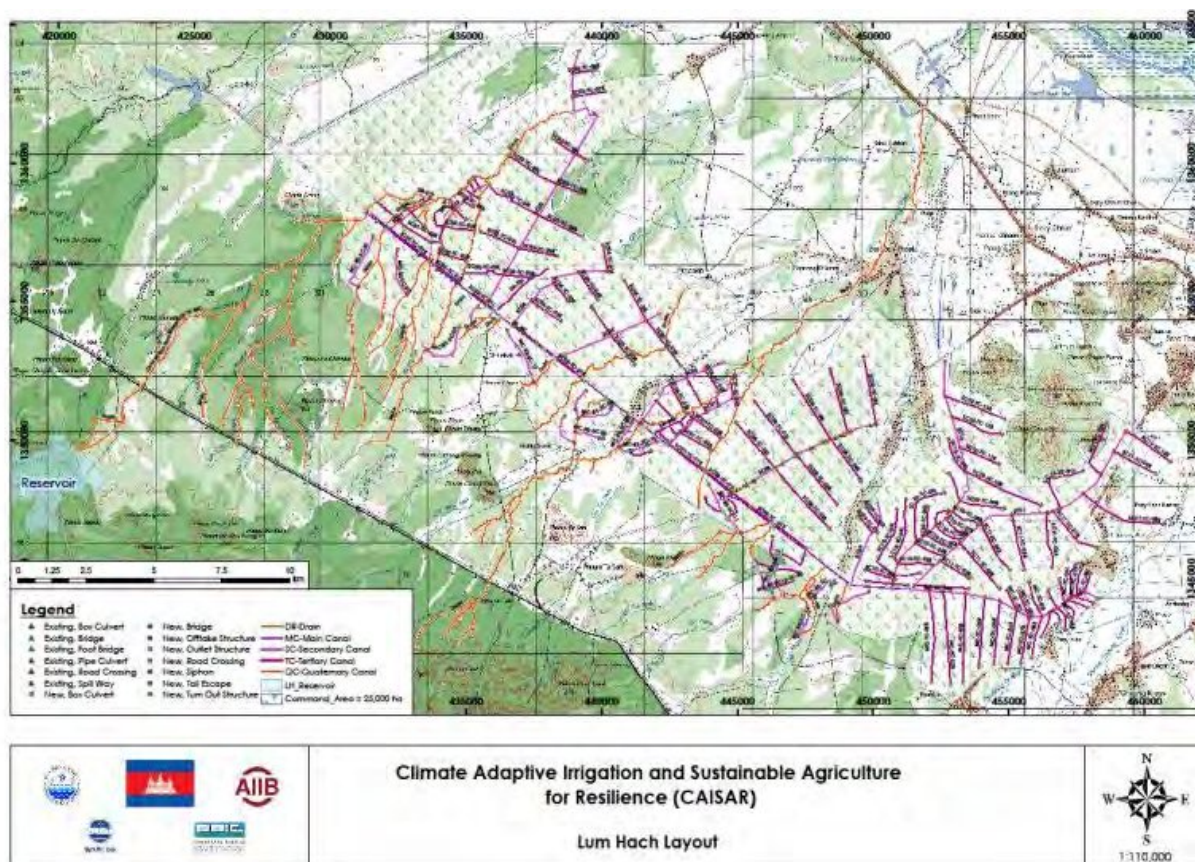
Source: CAISAR Feasibility Study

Figure 4-1: Map showing the location of the CAISAR project areas and Provincial Boundaries



Source: CAISAR Feasibility Study 2023

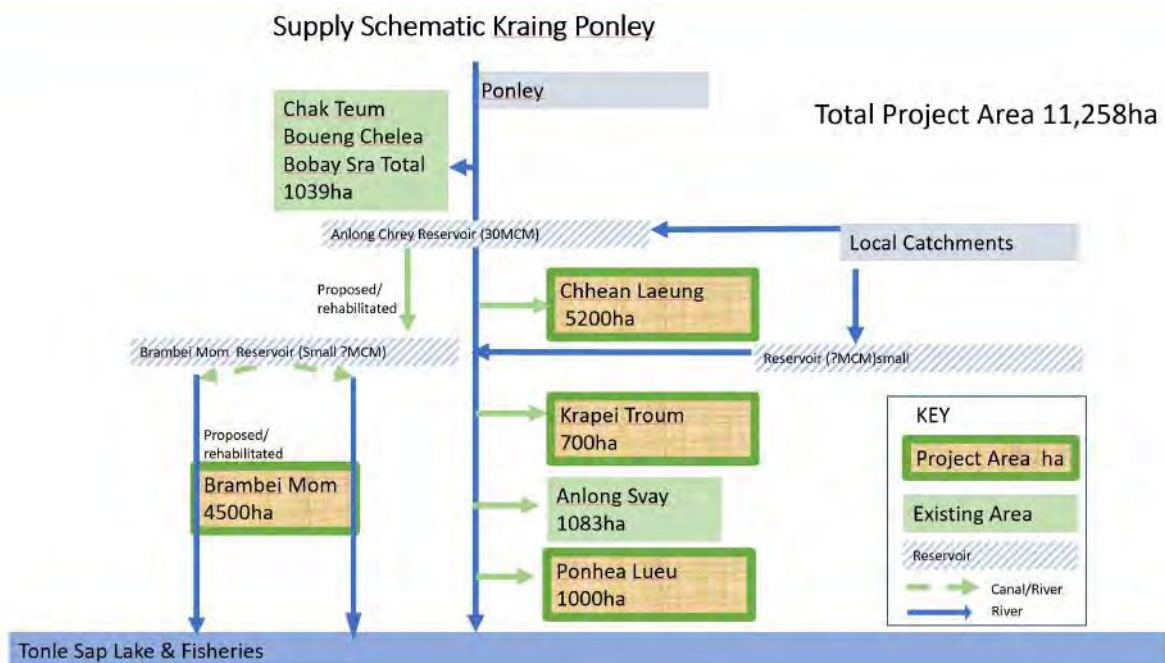
Figure 4-2: Ou Ta Paong Project Layout - Some irrigation exists, others depend on flood recession or rainfall.



Source: CAISAR Feasibility Study 2023

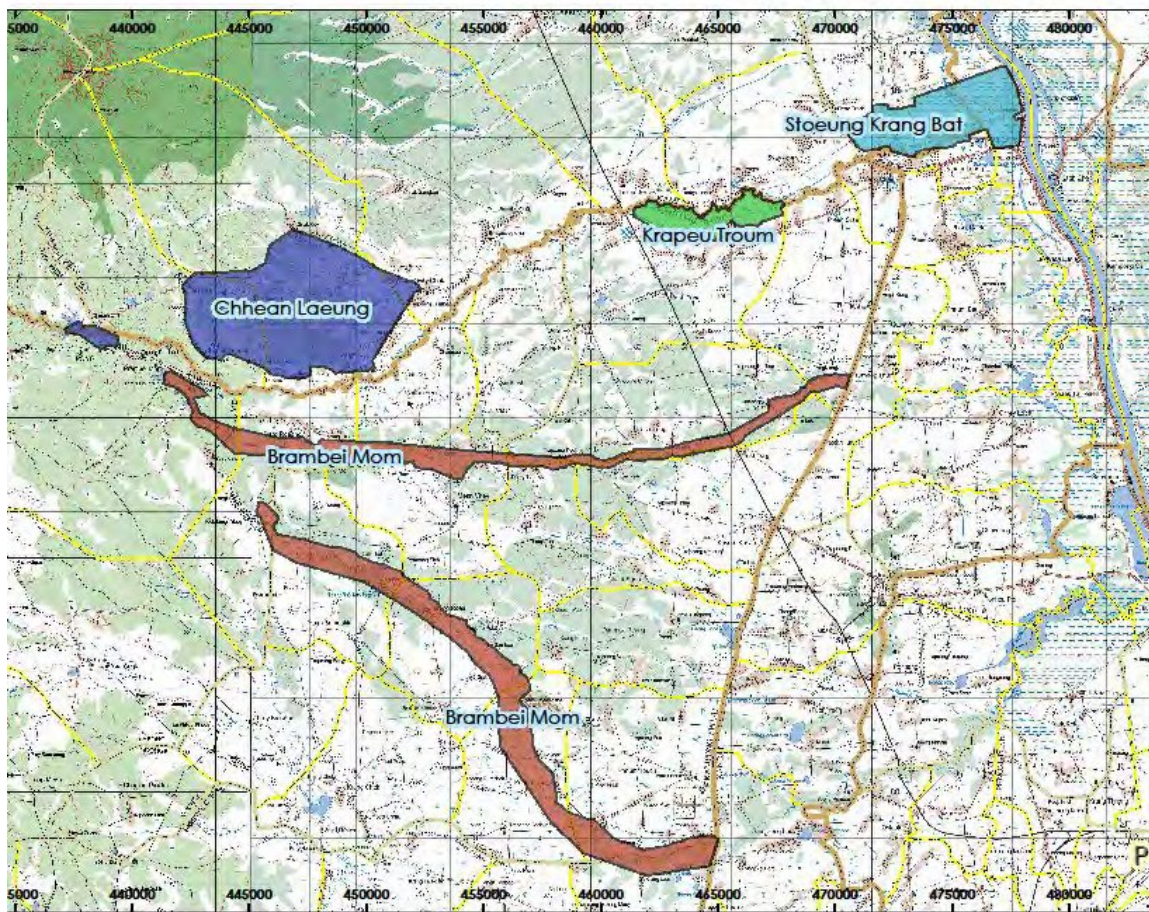
Figure 4-3 Lum Hach Feasibility Level Canal Layouts and Storage (excluding JICA System)

103 Krang Ponley scheme differs from the Ou Ta Paong and Lum Hach schemes in that it consists of 4 separate command areas. These are grouped according to their hydrological connectivity via the Ponley River and geographical proximity in the North East of the Kampong Speu province and crossing slightly into Kampong Chhnang and Kandal (Source: CAISAR Feasibility Study 2023).



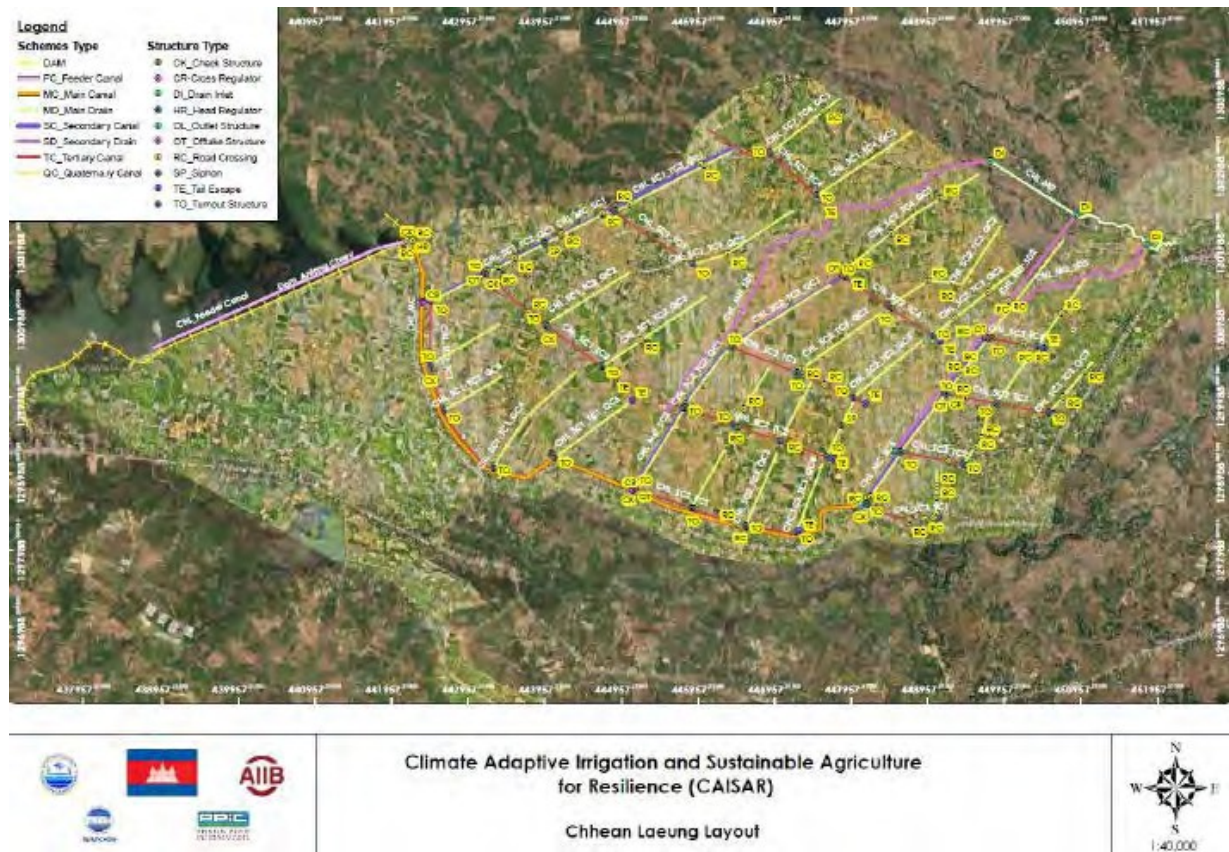
Source: CAISAR Feasibility Study

Figure 4-4: Krang Ponley overview schematic



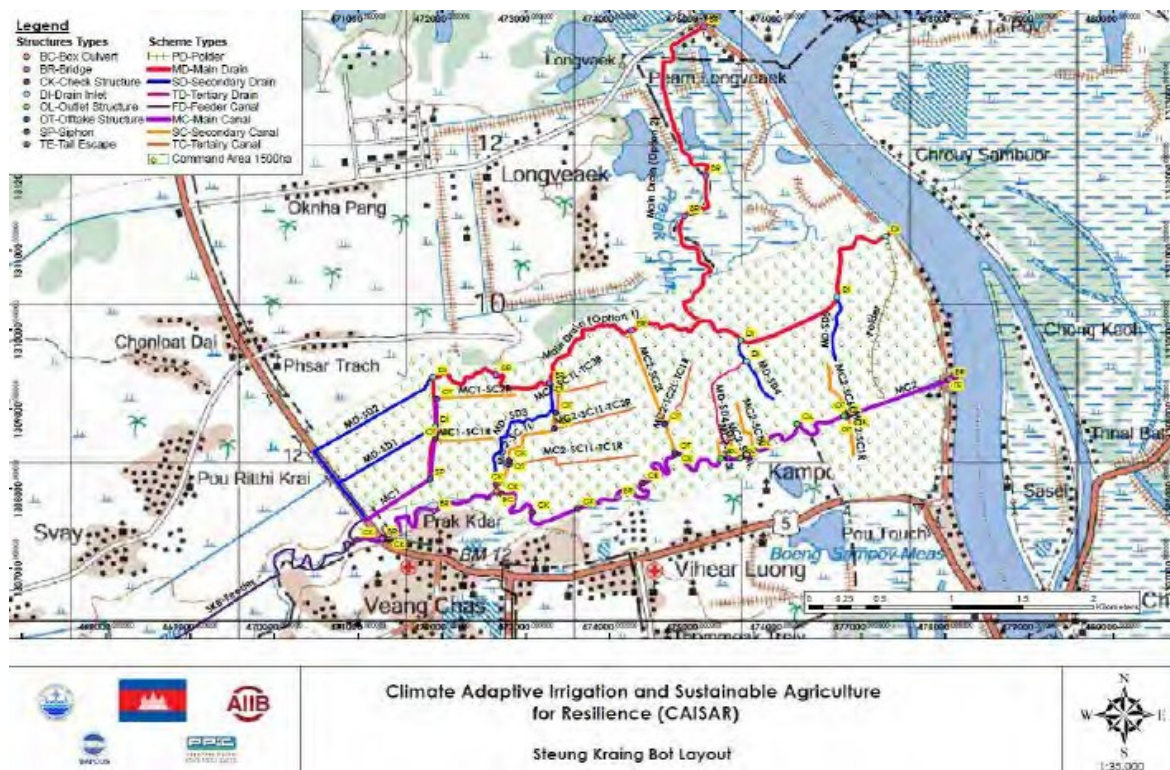
Source: CAISAR Feasibility Study

Figure 4-5: Location of Krang Ponley Irrigation Schemes



Source: CAISAR Feasibility Study

Figure 4-6 Krang Ponley Subproject - Chhean Loeung area canals do not exist,



Source: CAISAR Feasibility Study

Figure 4-7 The Outlet of the Krang Ponley to the Tonle Sap is through Krang Bat area

4.3 Project target areas and beneficiaries

104 The following section describes the CAISAR sub-projects and their beneficiaries.

4.3.1 *Krang Ponley*

105 The Krang Ponley sub-project is located within the Krang Ponley catchment and is made up of four sub areas: Brambei Mom, Krapeu Troum, Krang Bat and Cheung Luong. The Krang Ponley river is long and fed from the Anlong Chrey Reservoir. The reservoir has a storage capacity of 30M m3 and was rehabilitated by KOICA in 2012 as part of the *Krang Ponley Water Resources Development Project*. With the exception of Chhean Laeung, each of the sub-project areas has existing irrigation infrastructure. These were largely constructed under the Khmer Rouge (1975 – 1979) and have since fallen into disrepair despite farmers excavating and maintaining some main and branch canals. Severe sedimentation and embankment erosion resulting from a lack of maintenance has resulted in damaged concrete structures and an inefficient irrigation system.

106 The proposed works are expected to benefit 3 communes across the four separate sub-schemes, making use of both the Anlong Chrey reservoir and the Brambei Mom reservoir. Pond and storage area rehabilitation and excavation, upgrading main, secondary, and tertiary canals as well as a new scheme at Chhean Leung will be hugely beneficial to local communities, increasing their resilience to climate change and enabling them to increase their agricultural outputs resulting in a number of indirect social benefits. In total there are 47,000 households in the Krang Ponley sub-project area. Dry season yields are expected to increase from 4.5 tons/ha to 6.5 tons/ha and during the wet season, they are expected to increase from 3.9 tons/ha to 5.8 tons/ha.

4.3.2 *Lum Hach*

107 The Lum Hach irrigation scheme is in close proximity to the work undertaken by JICA as part of the West Tonle Sap Irrigation Project (2022). Unfortunately, due to the infilling of the 1st January canal from discarded excavated material and the lowering of the headworks on the main canal, the CAISAR Lum Hach scheme can no longer make use of the existing main canal as a water source for irrigation. Therefore, alternative water sources have been assessed and analysed to determine if they are available and sufficient for the new scheme (Annex 1).

108 The existing irrigation infrastructure has received limited farm maintenance by farmers and others. This has resulted in sedimentation, embankment erosion and damaged concrete structures making the current system unreliable.

109 The proposed works are expected to benefit people living in four communes across three districts of Kampong Chhnang Province. The overall design will enhance the existing irrigated area to enable farmers to increase yields during the wet season from 2.5 tons/ha to 4.5 tons/ha. Additionally, with the provision of a reliable water source during the dry season and sufficient training provided through the proposed FWUCs, dry season cropping will be feasible with an estimated yield of 5 tons/ha.

110 Overall there are 18000 households in the Lum Hach sub-project area.

4.3.3 *Ou Ta Paong*

111 The Ou Ta Paong sub-project lies within Pursat Province. The area is highly climate vulnerable due to its proximity to the Tonle Sap lake and the Svay Donkeo river which have shown erratic flood patterns in recent years.

112 The existing irrigation scheme at Ou Ta Paong was constructed during the Khmer Rouge. Some sections have been rehabilitated by farmers and from social funds but due to an overall lack of maintenance and finance, many sections of canal have been damaged from sedimentation and erosion. The main water source is from the Don Nak ChheKrom canal which receives water from the Steng Pursat River.

113 The proposed scheme will include flood defense investment around the command area to enable the community to protect its farming livelihood from future flood events from the Tonle Sap but taking into consideration the importance of local fisheries.

114 The current irrigation system is not connected to upstream water sources and current farming practices are heavily dependent on rainfall and flood recession agriculture. The design proposals will reduce this climate dependence and vulnerability to climatic changes by providing a reliable source of water for irrigation from the Svay Donkeo River via the Damnak Ampil Canal. 40km of Main Canal will convey water from the Damnak Ampil Head Works via the China Main Canal to feed the irrigation scheme.

115 The scheme will benefit communities living within two communes in the Bakan and Pursat Province and overall, there are 6000 households in the sub-project area. Dry season yields are expected to increase from 5.8 tons/ha to 6.5 tons/ha and wet season yields are expected to increase from 3.9 tons/ha to 5.8 tons/ha.

116 The following provides a summary of the three irrigation and flood control schemes.

Table-4-1: Summary of the Sub Project Elements

Sub Project	Ou Ta Paoung	Lum Hach	Krang Ponley
Area Cultivated (ha)	13,000	17,000	15,000
Water Source	Pursat River and Svay Don Keo	Local Streams and diversion of Boribo tributary	Krang Ponley River with existing storage at Anlong Chrey and Brambei Mom
Nature Based Solution	Restoration of Ou Ta Paoung River, fish passage on Donkeo and OTP, Natural Management of TS floods.	Enhancement of Main Canal environmental features, local storages and riparian corridors along local rivers. 200 Ponds	Control of flood regime at Krang Bat for flood recession and fisheries. Rehabilitate 31 major ponds.
Solar Pump Installations	35 (Not suitable in flood areas)	179	110(BBM)+47(CL)+27(KPT)
Main/Feeder Canals C/L(km)/N	1_8.0km_29	1_30.0_52	
Secondary Canal C/L (km)/N (Exist and New)	8_30.0km_ 13_35.8km_108	12_12.2km_673	
Tertiary Canal C/L (km)/N Exist and New	34_47.5km 139_151.0km_1452	179_107km_1487	
Main/Secondary Drains (C/L km/N)	7_36.3km_15	12_107km_99	
Existing Land Area (Ha)	300	66	144
New Land Area Required (Ha)	278	532	249

Note: (L=km C= Number of Canals, N= Number of Structures)

4.4 Socio-economic context and vulnerability

117 As part of the feasibility study for the CAISAR project, WAPCOS conducted a comprehensive livelihoods and vulnerability study of the target population. The study conducted surveys across more than 630 households in the project areas, 100 focus groups and 100 key informant interviews to understand the social and economic issues affecting the target population in the areas where CAISAR will be implemented. Issues such as poverty rates, land ownership, access to goods, education and health care as well as institutional capacities and gender related issues were all explored and analyzed by the WAPCOS team. It was important for the CAISAR project to assess such issues to get an improved understanding of the social society living in the command areas and any long-standing social inequalities which may impact their ability to adapt and be resilient to climate change. This could then assist the design and implementation of targeted and area specific aspects of both Component 1 and 2.

118 The survey results were assessed and found that the populations of all command areas follow similar social economic indicators, in terms of poverty, income, household debt, education levels, health and vulnerabilities.

119 Most of the population are rural farmers (rice typically), whilst some also supplement their income via alternative jobs such as working in the service sector. Households typically do not have stable annual incomes or expenditures due to the annual cycle of the wet and dry season and the impact this has on agricultural yields and livelihoods. This correlated with the vulnerability analysis which found that the majority of the population is at the edge of poverty despite most respondents having incomes above traditional poverty lines (the World Bank or UNDP thresholds are between 2-8 USD per day). The WAPCOS survey found that based on responses to the monthly income section in the livelihood analysis for the four provinces, the highest proportion of households earn between 200 to 300 USD/month (17.1%) and then 300 to 400 USD/month (16.0%). The high-income band per household of over 1000 USD/month was only attributed to 4.8% of households and the lowest income band of less than 50\$/month was attributed to 7% of households. These average income values hide the variability between provinces, for example in Kandal province, 3% of households earn less than \$50/month whereas in Kampong Chhnang the number is much higher at 10%. The low number of low-income households in Kandal may be due to the proximity to good transport links and towns/cities such as Phnom Penh. There are less alternative income sources in rural areas, such as selling produce and groceries, business, or service providers, so most households are dependent on agriculture for their livelihoods which typically does not generate large monthly incomes.

120 Since 2007, Cambodia has made significant progress in terms of educating its Children. The number of children enrolled in primary education increased from 82% in 1992 to 97% in 2017/8. However, the country still faces a number of challenges, particularly educating those living in poor rural areas as children are not reaching standards appropriate for their age.

121 At primary level, nearly 25% of children in Grade 3 cannot write a single word in a dictation test. Only 27% of 3 to 5 year old's are developmentally on track in literacy and numeracy and by the time they are 17 years old, 55% of adolescents will have dropped out of school. Overall, large numbers of girls and boys remain out of school at all levels of education, from early childhood through to adolescence. Most children drop out before reaching secondary school. Girls and boys from disadvantaged groups are struggling to realize their potential as they face difficulties getting to, and staying in, school.

122 Across the CAISAR project areas, high school dropout rates are common. The highest education level attained for 59% of households questioned during the survey was primary school. Only 22% had been to secondary school and less than 1% to university. 12% of households had never been to school and of these, 82% could not read or write. It must be noted that these average values hide the range of results which varied by province and sub project area. In Ou Ta Paong, 17% of households had never been to school. For 54% of the households questioned, primary school was their highest education level with 22% going to secondary school and 3% to university. Low education levels in this area will make it more challenging to implement climate resiliency measures.

123 By contrast, in Lum Hach, 7% of households had never been to school and 43% had been to primary school, 13% to secondary school and 2% to university. The variable educational levels attained by the households across the sub-project areas highlights the potential social inequalities experienced by local communities. There are various reasons why children may drop out of school such as cost, distance from home, engagement in agricultural activities. In most provinces of Cambodia, upper secondary schools are mainly located in district or provincial centers. Students in remote areas may therefore not be able to access them due to poor quality roads or general lack of transport. Long distances to schools and bad road conditions often require students to make use of accommodation in another district but this is not possible for the majority of poor rural families, limiting their capacity to meet their potential.

124 High school dropout rates are common in the CAISAR project areas and are typically experienced in these rural areas due to the cost, long travel times and bad road conditions. This is a social issue that the CAISAR project could address by providing good quality roads adjacent to canals and within the command areas.

125 In recent years, consecutive annual crop failures have led to household individuals sourcing other, more profitable non-farm incomes. In 2018, an estimated 1,000,000 Cambodian migrants were registered in Thailand looking for other income sources to support their families. However, the COVID19 pandemic resulted in a backflow of mostly rural labor migrants which posed its own challenges to the agricultural sector in Cambodia (ADB, 2022).

126 There continues to exist a large disparity between the rural and urban populations of Cambodia. In 2016, the estimated average monthly household income was \$717 in Phnom Penh and \$607 in other urban areas. By contrast, monthly incomes were on average \$374 in rural areas (Government of Cambodia, Socio-Economic Survey, 2016). Rural incomes are therefore only about 50% - 60% of all urban areas although the gap does appear to be closing with the disparity in 2012 being 40% - 55% (ADB, 2022).

127 This section has discussed several direct and in-direct beneficiaries living in the project areas. It highlights the importance of surveying communities to identify any existing social inequalities and looking for opportunities to reduce these. The CAISAR project will look to improve the general wealth, well-being, priorities, and opportunities of communities living within the command areas through providing a reliable irrigation system that is resistant to climate change and will enable farmers to improve their livelihoods.

4.5 Agriculture

128 Agriculture is the primary source of livelihood for the communities living in most provinces of Cambodia and it accounts for 22.5% of the country's Gross Domestic Product and employs over 3 million people. Rice is the dominant food crop grown on an estimated 4.5 million hectares or 70% of the country's total cultivated area (ADB, 2022). The cultivated area of rice in Cambodia increased from 3.2 million ha in 2017 to 3.3 million ha in 2018, comprising of 2.7 million ha of wet-season rice and 0.6 million ha of dry-season rice (ADB, 2022).

129 Each sub-project command area has unique climatic conditions and geology which results in different soil qualities. This in turn affects land use and farming practices as communities have adapted over time to the areas in which they live and the resources that they have.

130 Access to transport and agricultural co-operations additionally influences farming practices. Where there are agricultural co-operations, a network is already established between the farmers growing and selling the vegetables and those buying them. This facilitates vegetable cultivation and marketability, encouraging farmers to move away from rice farming to more diverse horticultural agriculture. Krang Ponley for example is very accessible and close to the city of Phnom Penh. Farmers there produce more vegetables than in other provinces as they have better access to the cities markets to sell their produce.

131 In May-June 2022, the CAISAR team conducted an agronomy survey. Based on the findings, the agronomy experts have suggested proposed cropping patterns for each sub-project area which are discussed below.

132 **In Lum Hach**, the soil quality is particularly low due to the dominance of sandy surface soils. As a result the land is not considered suitable for agricultural use. Crops can be particularly vulnerable to drought stress due to the high hydraulic conductivity of the soils resulting in fast runoff and drainage. In conjunction with insufficient water resources and irrigation supply, this results in high rates of nutrient leaching and low crop yields. The agronomy survey and livelihood survey conducted by WAPCOS found that crop yields in the Lum Hach Command Area are water limited to one annual wet season crop of rice. Interviewed farmers reported average annual yields of 1.5 to 2 tons/ha whereas district statistics report crop yields of 3.2 to 3.8 tons/ha but it is thought that this dataset does not account for failed crop years. Currently only 30% of the Command Area is agricultural land but this is expected to change under the CAISAR project, once a more reliable source of water is provided. With a more reliable water supply, dry season rice cropping would be possible but farmers in Lum Hach explained they have limited technical experience and understanding of dry season rice so in order for this to be a success, it is critical that the CAISAR project provides adequate training.

133 As highlighted in the agronomy survey, the low soil quality in Lum Hach significantly limits crop yields and opportunities for expansion. Therefore, the CAISAR scheme proposes that between wet season rice crops, farmers grow cover crops such as mung bean to improve soil organic matter and fertility. This will have an indirect benefit to crop yields by improving soil productivity and therefore enhancing rice crop yields over time. Using cover crops has a further benefit of reducing input costs as farmers are required to use less fertilizer once the cover crops improve soil fertility. Crop rotation has the added benefit that it reduces the number of pests and diseases thereby reducing crop yield losses.

134 Additionally, farmers in Lum Hach could diversify to alternative horticultural crops such as cucumber, watermelon, pumpkin etc. between wet season crops to help increase soil organic content and interrupt the intensive rice cropping which inhibits the soil from rejuvenating.

135 **The Ou Ta Paong** Command Area is dominated by agricultural land (80%). Soil fertility is high, made up of 69% high productivity soil and 31% medium productivity soil. This is largely due to the low-land nature of the command area with the northern part lying within the active floodplain of the Tonle Sap which floods annually. There are two to three crops per year, producing 3.9 tons/ha in the wet season and 5.8 tons/ha in the dry season. Dry season rice crops typically produce more yield per hectare due to the rice variety that is used during this cropping period and the additional fertilizer that is applied.

136 The improved drainage and more reliable water supply to Ou Ta Paong will enable up to three rice crops per year. In addition, between rice crops, it may be possible for farmers to cultivate vegetables. Currently, the majority of farmers are reluctant to do this due to the lack of reliable water source. Once this is resolved by the CAISAR project, farmers have said they would be willing to try vegetable cultivation.

137 The dominant cropping pattern in **Krang Ponley** consists primarily of wet season rice cropping. There is however variation between the provinces depending on soil quality and water availability. Where possible, a dry season recession crop is planted with a typical yield of 4.5 tons/ha. The wet season rice yields are slightly lower at 3.9 tons/ha. However, flood inundation of the command areas can result in crop failures and reduced yields, particularly during the wet season.

138 In Krang Ponley, the overall soil quality is medium and similar to Ou Ta Paong due to the low-lying topography and annual flood inundation (particularly in Krang Bat) of the command area. Due to the proximity to markets in Phnom Penh, more farmers in this sub-project area have moved away from rice farming to horticultural produce such as watermelon, long bean, corn, eggplant and pumpkin. Farmers can either rely solely on vegetables throughout the year or grow vegetables outside of the wet season rice cropping period.

4.6 Water Resources

139 Rainfall is extremely variable across Cambodia both spatially and temporally. The Southwest monsoon in Cambodia provides 87% of the yearly rainfall during the months of May to October (Salvadore

et al, 2020). As a result, Cambodia receives an abundant amount of water during this part of the year but can also experience extreme water shortages during the dry season. The extreme volumes of water during the wet season can lead to extensive flooding which can result in crop and infrastructure damage. This is particularly an issue where flood waters inundate irrigation command areas. On the other hand, prolonged periods of dry days can lead to drought in the dry season. In areas where there are limited areas for water storage, crops can become water stressed and crop yields may be reduced or entire crops may fail. Water scarcity is therefore primarily a result of a lack of water management and water storage capacity rather than an insufficient volume of water available annually (ADB, 2022).

140 The extreme variability in rainfall results in serious challenges for rice farmers, particularly during the first few months of the wet season, when rainfall is most erratic and early season droughts are common. Short droughts can occur prior to the wettest period at the end of August to the end of November. Such short droughts can last 15 days but occasionally they can be prolonged and last up to 60 days after the first monsoon rains (ADB, 2014). This causes additional difficulties for rice farmers, particularly those who are dependent on rain-fed irrigation. Irrigation infrastructure is often lacking or is damaged due to lack of investment and maintenance which should otherwise provide reliable water supplies during these dry periods.

141 Across the three CAISAR project command areas, the majority of rice farmers are reliant on rain-fed irrigation or recession rice which brings both challenges and opportunities. Due to the erratic and unpredictable nature of the climate, farmers are reluctant to take more risks and diversify their cropping patterns as they have no reliable water source to support their crops if a period of drought occurs. In addition, there is a lack of drainage and flood protection which additionally inhibits farmers from meeting their yield potentials. Climate Change will impact Cambodia's water resources and it is critical that this is taken into account at each stage of the CAISAR project including project design and hydrological and hydraulic modelling.

142 Extensive modelling has been undertaken as part of this feasibility study to ensure that there are sufficient water resources both under current and future scenarios, taking uncertainty into account. This is summarized in detail in the D4 modelling report and the results show that the project is feasible in terms of the available of water resources both now and in the future, to support the proposed yield increases in the 45,000 ha CAISAR project command areas.

4.7 Irrigation

143 Access to water is a challenge, particularly for those with irrigation schemes located close to the Tonle Sap as flooding in the wet season and shortage in the dry season can limit annual cropping intensity. Successful water resource management is therefore critical to ensuring that the CAISAR irrigation schemes are a success.

144 Rehabilitation and climate proofing of existing irrigation infrastructure will be key. Constructing irrigation ponds also forms part of an integrated and smart water resource management plan. Climate proofing involves securing the irrigation system's resilience and sustainability against longer droughts in the dry season and to mitigate the impacts of flood events.

145 Irrigation has the potential to increase Cambodia's potential rice yields. Currently, the dominance of low wet-season rice yield limits the productivity and profitability of Cambodian farmers. For example, Cambodia's wet-season rice is about 30% less than that of Thailand's Central Plains region (ADB, 2022). There are opportunities for crop diversification that are being explored but this is likely to be on a smaller scale than rice production.

146 The infrastructure proposed is a full package for water management improvements including storage, gravity supply without repumping where possible and use of solar pumping where it is not, drainage and flood control including allowance for aquatic animals and fish.

147 This section provides a brief overview of biodiversity assessment framework that was adopted under this project. For detailed biodiversity assessment for each of the six sub-schemes, please review the biodiversity assessment report (Annex 1 of ESCIA report, or also attached as Annex 1 of the Funding Proposal).

4.8.1 Methodology

148 This assessment employed a comprehensive, multi-faceted approach to evaluate the potential environmental and social impacts of the CAISAR project across six sub-schemes, with a primary focus on biodiversity and ecosystem services. This methodology aligns with international best practices, including the International Finance Corporation's (IFC) Performance Standard 6 (PS6) on Biodiversity Conservation and Sustainable Management of Living Natural Resources.

4.8.1.1 Literature review

149 A thorough literature review was conducted at three distinct levels to establish a robust knowledge base:

- National Level: This review aimed to establish the overarching legal and policy framework governing biodiversity management and conservation in Cambodia. It also sought to provide a comprehensive overview of the current status of biodiversity within the country, including key challenges and trends. (Relevant Cambodian environmental laws, national biodiversity strategies, reports from the Ministry of Environment, etc.)
- Regional Level: Given the project's location upstream of the Tonle Sap Lake, this review focused on the status of biodiversity and management within the Tonle Sap Floodplain. It explored the unique ecological characteristics of this region and the existing management strategies in place. (Reports from the Tonle Sap Authority, academic studies on the Tonle Sap ecosystem, regional environmental assessments, etc.)
- Sub-Scheme Level: Utilizing data from reputable sources such as the Integrated Biodiversity Assessment Tool (IBAT) and eBird, this review focused on identifying species listed as Endangered (EN) or Critically Endangered (CR) by the International Union for Conservation of Nature (IUCN). It also assessed the potential impacts of project activities on these species, as well as the cumulative impacts from other relevant projects within the project's area of influence. This review was conducted to understand the precarious state of Cambodia's endangered species, and the multiple threats that they face. (IUCN Red List, IBAT data, eBird data, relevant scientific publications, etc.)

150 This comprehensive review illuminated the multifaceted threats facing Cambodia's critically endangered species, including habitat degradation, illegal hunting, pollution, and other anthropogenic pressures. The diversity of taxa represented, spanning animals, birds, fish, plants, and fungi, highlights the intricate tapestry of Cambodia's ecosystems.

4.8.1.2 Baseline Data Collection

Data Synthesis

- Biodiversity Mapping: Spatial distribution of biodiversity was visualized by integrating field data, stakeholder interviews, and existing administrative maps (e.g., Community Forests (CF), Community Fisheries (Cfi), Key Biodiversity Areas (KBAs)).
- Species Prioritization: Focused on IUCN-listed EN/CR species with verified sightings within 1–5 years to ensure relevance for risk assessment. Historical data (>5 years) informed trend analysis relative to habitat changes.
- Critical Habitat Identification: High-value habitats were delineated using field surveys and geospatial analysis, emphasizing ecological functions and EN/CR species presence.

Community Engagement

- Stakeholder Consultations: Semi-structured interviews and focus group discussions (FGDs) were conducted with CF/CFi representatives, local authorities, and fishers to document wildlife presence, movement patterns, and historical population trends.
- Local Ecological Knowledge: Species data were cross-verified using morphological descriptions, behavioral traits, and habitat preferences provided by informants.

Aquatic Biodiversity Assessment

Endangered fish populations were evaluated through field surveys, interviews with fishers, and collaboration with government agencies. Data on migration connectivity, ecological niches, and historical catch records were analyzed to mitigate identification challenges.

4.8.1.3 Impact Assessment

Area of Influence (Aol)

The Aol for each sub-scheme was defined by:

1. Command Area: Geographic scope of project activities (e.g., canal rehabilitation, crop intensification).
2. Environmental Footprints: Indirect and cumulative impacts (e.g., pesticide runoff, habitat fragmentation) guided by the AIIB Environmental and Social Framework (ESF). Boundaries were iteratively refined as construction sites, logistics plans, and cultivation targets were finalized.

Field Surveys

Two wet-season surveys (July 25–27 and August 3–9, 2024) employed:

- Drone Surveillance: For inaccessible terrain and aerial boundary and habitat assessments.
- Transect Walks: Ground-level species and habitat monitoring.
- Hotspot Prioritization: GIS-based habitat modeling identified high-risk zones within and adjacent to the Aol for targeted data collection.

Risk Evaluation

Impacts were assessed against IFC Performance Standard 6 (PS6) criteria for critical habitats, emphasizing:

- Direct/Indirect Effects: Habitat loss, hydrological disruption, invasive species, and pollution.
- Cumulative Impacts: Synergistic threats from adjacent development projects.
- Ecosystem Services: Dependence of local livelihoods on biodiversity.

4.8.1.4 Adaptive Management Framework

An iterative approach was adopted to address data gaps and dynamic conditions:

- Mitigation Hierarchy: Prioritize impact avoidance, followed by minimization and restoration.
- Monitoring Protocols: Periodic evaluations to adjust mitigation measures (e.g., habitat buffers, pollution controls).
- Stakeholder Feedback: Continuous integration of community insights into conservation strategies.

4.8.1.5 Data Validation and Reporting

- Species Verification: All sightings were cross-referenced with IUCN databases and peer-reviewed literature.
 - Cartographic Outputs: A3-sized maps delineated administrative boundaries, landscape features, and EN/CR species distributions.
- Expert Collaboration: Findings were validated with government agencies and research institutions to ensure methodological rigor.

4.8.1.6 Key Informant Interviews and Scope of Work

- IFC Performance Standard 6 (PS6): PS6 was applied to identify and assess critical habitats, considering irreplaceability, vulnerability, biodiversity, ecosystem services, and cultural significance.
- Key Informant Selection: 10-12 individuals per sub-scheme were selected based on local wildlife knowledge, using semi-structured and structured questionnaires with visual aids.

4.8.1.7 Methods used for Critical Habitat Assessment

IFC PS6 presented the following criteria to assess for projects in Critical Habitat. These were as follows:

- Criterion 1: Critically Endangered (CR) and Endangered (E) species;
- Criterion 2: Restricted-range/Endemic species;
- Criterion 3: Migratory/congregatory species;
- Criterion 4: Highly threatened and/or unique ecosystems; and
- Criterion 5: Key Evolutionary Processes.

In addition to the above five biological criteria, there were further circumstances in which an area might be recognised as Critical Habitat. For simplicity, there were two further criteria:

- Criterion 6: Most Legally Protected Areas (particularly IUCN Categories I-IV) and Internationally Recognised Areas (e.g., KBAs and IBAs);
- Criterion 7: Other areas of high biodiversity value, such as areas of high scientific value or areas of old growth forest.

Criteria 1-3 have quantitative thresholds which help determine whether an area is Critical Habitat. Criteria 4 and 5 are qualitatively defined at present and so require consultation with experts. Criterion 4 covers rare and threatened habitats which might not necessarily hold species triggering Criteria 1-3. Criterion 5 is particularly identified by physical landscape features promoting evolution (e.g. islands, mountains, ecotones), or by groups of species with distinct evolutionary history.

Table 1 provides the formal quantitative thresholds for species Criteria 1-3. Discreet Management Units (DMUs) may be ecologically-defined (e.g. a whole patch of a certain habitat type or a watershed) or politically-defined (e.g. a protected area, property or local political unit). This table can be reduced to five relatively simple rules to cover most eventualities. Note, however, that these alone should not be relied upon for a comprehensive Critical Habitat assessment.

- DMUs with $\geq 10\%$ global population of a CR or EN species (or, generally, the equivalent in terms of known sites for that species, e.g. if the DMU is one of only 10 sites globally) = Tier 1 (Sub-criteria 1a+1b)
- DMUs with a single regularly occurring individual of a CR species = Tier 2 (Sub-criterion 1c)
- DMUs with regionally important concentrations of a EN species = Tier 2 (Sub-criterion 1c)
- DMUs with $\geq 95\%$ of the global population of a restricted-range, endemic or migratory/congregatory species (effectively site endemics) = Tier 1 (Sub-criteria 2a+3a)

- DMUs with $\geq 1\%$ of the global population of a restricted-range, endemic or migratory/congregatory species (this is the easiest category in which to trigger CH)
= Tier 2 (Sub- criteria 2b+3b)

Table 2: Quantitative thresholds for criteria 1-3 relating to tier 1 and tier 2 critical habitat

Criteria	Tier 1	Tier 2
1. Critically Endangered (CR)/ Endangered (EN) Species	<p>(a) Habitat required to sustain ≥ 10 percent of the global population of a CR or EN species/subspecies where there are known, regular occurrences of the species and where that habitat could be considered a discrete management unit for that species.</p> <p>(b) Habitat with known, regular occurrences of CR or EN species where that habitat is one of 10 or fewer discrete management sites globally for that species.</p>	<p>(c) Habitat that supports the regular occurrence of a single individual of a CR species and/or habitat containing regionally-important concentrations of a Red-listed EN species where that habitat could be considered a discrete management unit for that species/subspecies.</p> <p>(d) Habitat of significant importance to CR or EN species that are wide-ranging and/or whose population distribution is not well understood and where the loss of such a habitat could potentially impact the long-term survivability of the species.</p> <p>(e) As appropriate, habitat containing nationally/regionally important concentrations of an EN, CR or equivalent national/regional listing.</p>
2. Endemic/ Restricted Range Species	<p>(a) Habitat known to sustain ≥ 95 percent of the global population of an endemic or restricted-range species where that habitat could be considered a discrete management unit for that species (e.g., a single-site endemic).</p>	<p>(b) Habitat known to sustain ≥ 1 percent but < 95 percent of the global population of an endemic or restricted-range species/subspecies where that habitat could be considered a discrete management unit for that species, where data are available and/or based on expert judgement.</p>

3. Migratory/ Congregatory Species	(a) Habitat known to sustain, on a cyclical or otherwise regular basis, \geq 95 percent of the global population of a migratory or congregatory species at any point of the species lifecycle where that habitat could be considered a discrete management unit for that species.	<p>b) Habitat known to sustain, on a cyclical or otherwise regular basis, \geq 1 percent but $<$ 95 percent of the global population of a migratory or congregatory species at any point of the species lifecycle and where that habitat could be considered a discrete management unit for that species, where data are available and/or based on expert judgement.</p> <p>(c) For birds, habitat that meets BirdLife International's Criterion A4 for congregations and/or Ramsar Criteria 5 or 6 for Identifying Wetlands of International Importance.</p> <p>(d) For species with large but clumped distributions, a provisional threshold is set at \geq 5 percent of the global population for both terrestrial and marine species.</p> <p>(e) Source sites that contribute \geq 1 percent of the global population of recruits.</p>
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4.9 Assessment of Environmental, Social and Climate Risks, Impacts and Mitigation Measures

151 Potential risks, impacts and mitigation measures have been identified for the CAISAR irrigation and flood control protection schemes during the Pre-Construction Phase; Construction Phase and the Operations Phase in the provinces of Kampong Speu, Kampong Chhnang, Kandal, and Pursat Cambodia.

4.9.1 Pre-Construction Phase

152 Potential environmental, social, and climate-related risks and impacts to be considered specifically associated with the pre-construction phase of the planned CAISAR irrigation and flood protection project include:

4.9.1.1 Environmental Risks and Impacts (Pre-construction Phase):

1. **Habitat Assessment:** Before construction begins, there should be a thorough assessment of the project area's habitats to identify potential impacts on local flora and fauna.
2. **Vegetation Clearance:** Clearing land for construction can lead to habitat destruction and loss of biodiversity. Pre-construction activities like land clearing should be carefully planned and managed.
3. **Soil Erosion:** Pre-construction activities like excavation and grading can increase soil erosion, potentially affecting nearby water bodies and ecosystems.
4. **Land Use Changes:** Conversion of land for project purposes may alter local land use patterns, impacting agricultural and forestry activities.
5. **Waterbody Alteration:** The assessment of water bodies like rivers, streams, and wetlands should be conducted to understand potential impacts on aquatic ecosystems.
6. **Waste Management** - increase in volume of hazardous and non-hazardous waste requiring safe disposal.

7. **Unexploded Ordinance (UXO)** - Although effort has been made to demine across the country, mortar shells, aerial bombs, and other unexploded ordnance may be found within the command area of the project's sub-schemes and along rural roads where rehabilitation is anticipated. Some demining operations have been carried out at shallow depths, and UXO maps have been generated at certain area of the project area. However, it is not known information about UXO risk available for the location where earthwork and excavation would be carried out. Of particular concern is the hazard posed by unexploded ordinance left during the war, particularly in area where deep excavation is required. Given this, the risk of UXO is identified, particularly for area where with physical works such as earthwork and excavation would be carried out – when detailed engineering designs are finished.

4.9.1.2 Social Risks and Impacts (Pre-construction Phase):

1. **Land Acquisition:** The process of acquiring land for the project can disrupt local communities, potentially leading to land tenure issues and conflicts.
2. **Livelihood Disruption:** Even before construction starts, the anticipation of project impacts can disrupt local livelihoods as residents may alter their activities or move.
3. **Cultural Heritage:** Pre-construction surveys should identify any cultural heritage sites or traditions that may be affected, and appropriate measures should be taken to protect them.
4. **Community Engagement:** Engaging with local communities during the pre-construction phase is critical to understanding their concerns and needs, helping to design mitigation measures.
5. **Indigenous Peoples Exclusion** – Potential disbenefit to IP's or lack of inclusion in project benefits and opportunities.
6. **Gender Inequities** – Potential inequities and lack of project opportunities and benefits.
SEAH. Community consultations and site visits during design and planning stages may lead to coercive dynamics, particularly during individual interviews or focus groups, with potential for inappropriate or exploitative behavior under the guise of community engagement.

4.9.1.3 Climate Risks and Impacts (Pre-construction Phase) (See Annex 13: CAISAR Climate Change Impact Rationale)

1. **Climate Data Analysis:** It's important to analyze historical climate data during the pre-construction phase to identify climate-related risks that may affect project design and location.
2. **Future Climate Projections:** Understanding future climate projections, such as changes in rainfall patterns or increased frequency of extreme weather events, can inform the project's design for resilience.
3. **Adaptation Planning:** Pre-construction phase should involve planning for climate change adaptation measures, ensuring the project can withstand anticipated climate impacts.
4. **Mitigation Strategies:** Identifying opportunities to reduce greenhouse gas emissions associated with pre-construction activities, such as transportation or energy use, is important for climate mitigation.
5. **Data Collection:** Establishing baseline data on environmental conditions, community demographics, and climate variables during the pre-construction phase is crucial for monitoring and evaluation throughout the project's lifecycle.

153 During the pre-construction phase, thorough assessments, community consultations, and climate resilience planning should be integrated into the project's design to minimize environmental, social, and climate-related risks. This will help lay the foundation for a more sustainable and resilient project during the construction and operational phases.

154 Mitigation measures to address the environmental, social, and climate-related issues associated with the **pre-construction** phase of the CAISAR irrigation and flood protection project include:

4.9.1.4 Environmental Mitigation Measures (Pre-construction Phase):

Habitat Assessment and Preservation:

- Conduct a detailed habitat assessment and implement measures to preserve critical habitats, such as wetlands and forests, by avoiding or minimizing construction within these areas.

Revegetation and Reforestation:

- Implement reforestation and revegetation programs in areas where land clearance is necessary. Use native species to restore habitats.

Soil Erosion Control:

- Implement erosion control measures, such as silt fences, erosion control blankets, and sediment basins, to prevent soil erosion during pre-construction activities.

Sustainable Land Use Planning:

- Work with local authorities and communities to develop land use plans that minimize negative impacts on agriculture and forestry.

Water Management:

- Develop and implement a water management plan to minimize waterbody alteration during pre- construction activities.

Waste Management:

- Prepare and implement waste management plan.

Unexploded Ordinance:

- An UXO clearance plan will be developed as part of site-specific ESMP, and is implemented before commencing project activity.
- Conduct assessment of UXO risks before site clearance. UXO screening/assessment will be carried by certified UXO experts before any physical/construction activities, including mobilization of contractors to construction site, are allowed.
- In case UXOs are found by certified experts during on-site screening, removal of UXO will be carried out by certified experts.
- A UXO clearance certificate shall be obtained from related authority for each subproject prior to commencing any subproject activities.
- As part of site-specific ESMP, conduct training and awareness activities for local community with regards to UXO risks and chance finds.
- Chance Finds Procedures

4.9.1.5 Social Mitigation Measures (Pre-construction Phase):

Land Acquisition and Resettlement:

- Follow Land Acquisition & Resettlement Planning Framework (LARPF) and develop a fair and transparent land acquisition and resettlement plan, ensuring affected communities are adequately compensated and resettled, if necessary.

Livelihood Restoration:

- Implement livelihood restoration programs, such as vocational training and alternative income generation activities, to mitigate disruptions caused by pre-construction activities.

Cultural Heritage Protection:

- Identify and protect cultural heritage sites and traditions through measures like site preservation, documentation, and community involvement.

Community Engagement:

- Engage in meaningful consultations with local communities to gather their input and concerns and incorporate their feedback into project planning and design.

Indigenous Peoples:

- Implement IPP and ensure full participation of vulnerable or disadvantages groups (e.g., ethnic minorities).

Gender Participation:

- Implement Gender Action Plan and measures to promote female beneficiaries for improved

participation in project planning and implementation, and economic empowerment.

SEAH

- Integrate SEA/SH risk into the Environmental and Social Impact Assessment (ESIA) and ESMPs.
- Train of staff and consultants (especially those involved in consultations or engagement) on SEA/SH awareness, prevention, and response protocols and include SEA/SH clauses in Terms of Reference and service contracts for all project consultants and implementing partners.
- Ensure safe, inclusive consultation formats, such as gender-segregated focus groups and female facilitators when meeting with women or girls.
- Establish confidential reporting channels for SEAH-related complaints, integrated into the GRM but with a survivor-centered approach.

4.9.1.6 Climate Mitigation and Adaptation Measures (Pre-construction Phase):

Climate-Resilient Design:

- Incorporate climate resilience into the project design by considering future climate projections and ensuring infrastructure can withstand extreme weather events and changing climate conditions.

Low-Carbon Practices:

- Minimize greenhouse gas emissions from pre-construction activities by using energy-efficient machinery, promoting green transportation, and reducing construction-related emissions.

Adaptive Management:

- Develop adaptive management plans that can be adjusted based on changing climate conditions, ensuring the project's long-term viability.

Baseline Data Collection:

- Establish baseline data for environmental, social, and climate variables during the pre-construction phase to enable effective monitoring and evaluation throughout the project's lifecycle.

Climate Risk Assessments:

- Regularly assess climate risks and vulnerabilities during the pre-construction phase to identify emerging issues and adjust plans accordingly.

Community Resilience:

- Support local communities in building resilience to climate change through capacity-building programs, education, and access to climate-resilient livelihood options.

Green Infrastructure:

- Consider the use of green infrastructure solutions, such as natural flood management techniques, to complement traditional engineering approaches and enhance climate resilience.

155 It's essential that these mitigation measures are integrated into the project's planning and design from the early stages of the pre-construction phase. Collaboration with relevant stakeholders, including local communities, environmental experts, and climate specialists, is crucial to ensure the successful implementation of these measures and the overall sustainability of the project. Regular monitoring and evaluation is also essential to assess the effectiveness of these mitigation efforts and make necessary adjustments as needed.

4.9.2 Construction Phase

156 The potential environmental, social, and climate-related risks and impacts to be considered that are associated with the construction phase of the CAISAR irrigation and flood protection project include:

4.9.2.1 Environmental Risks and Impacts (Construction Phase):

1. **Habitat Destruction:** Construction activities can result in the direct destruction of natural habitats, including wetlands, forests, and aquatic ecosystems.

2. **Soil Erosion and Sedimentation:** Excavation, grading, and land clearing can increase soil erosion, leading to sedimentation in nearby water bodies, affecting water quality and aquatic ecosystems.
3. **Water Pollution:** Construction machinery, equipment, and runoff from construction sites can introduce pollutants, such as sediment, oil, and chemicals, into nearby water bodies.
4. **Noise and Air Pollution:** Construction activities generate noise pollution and emissions from heavy machinery, impacting local air quality and disturbing wildlife.
5. **Resource Consumption:** Construction materials, water, and energy are often consumed in large quantities, leading to resource depletion and increased carbon emissions.
6. **Waste Management** – increase in volume of hazardous and non-hazardous waste requiring safe disposal.

4.9.2.2 Social Risks and Impacts (Construction Phase):

1. **Displacement and Resettlement:** The construction phase may require the displacement of local households leading to potential land tenure issues and disruption of livelihoods.
2. **Traffic and Access Disruption:** Increased construction-related traffic can disrupt local transportation networks, impacting communities and businesses along transportation routes.
3. **Health and Safety:** Construction sites pose health and safety risks to workers and nearby communities. Accidents and exposure to construction-related hazards can have serious consequences.
4. **Cultural Heritage:** Construction activities and in migration of labor may threaten cultural heritage sites or disrupt local traditions and practices, leading to social and cultural impacts.
5. **Indigenous Peoples Exclusion** – Potential disbenefit to IP's or lack of inclusion in project benefits and opportunities.
6. **Gender Inequities** – Potential inequities and lack of project opportunities and benefits.
7. **SEAH:**
 - Sexual harassment of women and girls in transport vehicles used by project workers or associated with the project.
 - Lack of awareness about or access to safe, confidential SEA/SH complaint mechanisms among community members.
 - Increased SEAH risk due to large-scale labor influx from outside the community and related breakdown in social norms.
 - Marginalization of local workers leading to power imbalances and dependency on external workers, increasing SEAH vulnerability.
 - Poorly located or unregulated worker camps leading to unsupervised interactions with local communities, increasing SEAH risk.
 - Labor influx leading to increased SEAH, including exploitation of vulnerable groups due to sudden demographic changes.
 - Inappropriate or exploitative behavior by workers due to lack of awareness of expected conduct and consequences.
 - Ignorance or normalization of SEA/SH among workers and supervisors due to absence of capacity building.
 - Permissive work environments that tolerate or fail to report SEA/SH incidents.
 - Lack of accountability and standards for acceptable behavior among construction personnel.
 - Victims have no safe avenue for reporting or receiving support, leading to underreporting and impunity.
 - Abuse and harassment of women and children in communities by construction workers.
 - Tensions or inappropriate behavior due to lack of understanding of local cultural norms and gender sensitivities.
 - Community members, especially vulnerable groups, are unaware of their rights and of what constitutes SEA/SH or VAC.
 - Proximity of worker camps to schools or child-centered areas increases risk of exploitation or abuse of minors.
 - Exposure of children to unsafe environments and potential SEA/SH at construction or camp sites.
 - Absence of accessible and trusted avenues for SEA/SH complaints, especially for women and girls.
 - Weak institutional capacity to respond effectively and sensitively to SEA/SH or VAC incidents.

- Emotional stress, relationship tensions or domestic violence triggered by camp life or labor migration.
- Victims lack access to medical, psychosocial, or legal support following SEA/SH incidents.

4.9.2.3 Climate Risks and Impacts (Construction Phase):

1. **Emissions:** Construction machinery and transportation can generate significant greenhouse gas emissions, contributing to climate change if not properly managed.
2. **Climate-Related Disruptions:** Extreme weather events, such as heavy rainfall or flooding, can disrupt construction activities, leading to delays and increased costs.
3. **Water Management:** Managing water resources during construction, including temporary diversion of rivers or drainage, can impact local hydrology and potentially lead to downstream flooding.
4. **Infrastructure Vulnerability:** The construction phase may expose infrastructure to climate risks, such as flooding or storm damage, if proper precautions and design considerations are not taken into account.
5. **Temperature Extremes:** Construction workers may be exposed to temperature extremes, including heat stress in hot seasons and cold stress during cooler months, affecting worker health and productivity.

157 To address these risks and mitigate negative impacts during the construction phase, it's essential to implement environmental and social management plans. These plans will include measures to minimize habitat destruction, control pollution, ensure worker safety, and engage with local communities.

158 Additionally, climate resilience measures will be integrated into the construction process to mitigate climate-related risks and ensure the infrastructure's long-term sustainability. Regular monitoring and adherence to best practices will be implemented to minimize adverse effects during this phase of the project.

159 Suggested mitigation measures to address the potential environmental, social, and climate-related risks and impacts associated with the **construction phase** of the CAISAR irrigation and flood protection include.

4.9.2.4 Environmental Mitigation Measures (Construction Phase):

Habitat Protection and Restoration:

- Establish construction exclusion zones around sensitive habitats to prevent disturbance.
- Implement habitat restoration programs in areas where construction has occurred.

Erosion and Sediment Control:

- Install erosion control measures such as silt fences, sediment basins, and check dams to prevent soil erosion.
- Implement best management practices for construction site runoff, including sediment ponds.

Water Pollution Control:

- Properly manage construction chemicals, fuels, and waste to prevent water pollution.
- Use environmentally friendly construction materials and techniques to reduce the risk of pollution.

Noise and Air Pollution Management:

- Implement noise barriers and schedule noisy activities during non-sensitive hours.
- Ensure construction equipment meets emissions standards and maintain equipment properly.

Resource Efficiency:

- Reduce resource consumption by optimizing construction material use and recycling where feasible.
- Implement energy-efficient construction practices and use renewable energy sources where possible.

Waste Management:

- Implement waste management plan

See suggestions on good practices at Annex 5 (E&S Codes of Practice for Construction) and Annex 6 (Guidelines for Worker's Camp).

4.9.2.5 Social Mitigation Measures (Construction Phase):

Community Engagement:

- Maintain ongoing communication with affected communities to address concerns and keep them informed about construction activities.
- Implement grievance mechanism to address community complaints and issues promptly.

Displacement and Resettlement:

- Implement resettlement plans, ensuring affected communities receive fair compensation, land, and livelihood restoration support.
- Support affected households in finding alternative housing and income opportunities.

Health and Safety:

- Enforce strict health and safety regulations on construction sites to protect both workers and nearby communities.
- Provide appropriate training and personal protective equipment to workers.

Cultural Heritage Protection:

- Conduct archaeological surveys before construction in culturally sensitive areas.
- Develop mitigation strategies to protect cultural heritage sites and involve local communities in preservation efforts.

Indigenous Peoples:

- Implement IPP and ensure full participation of vulnerable or disadvantaged groups (e.g., ethnic minorities).

Gender Participation:

- Implement Gender Action Plan and measures to promote female beneficiaries for improved participation in project planning and implementation, and economic empowerment.

Labor and Working Conditions

- Hiring of people under 18 years of age is not permitted.
- Provision of information to local communities about the contractor's policies and responsibilities, including the Contractor's Code of Conduct and minimum working age.
- Ensure equal pay requirements are included in bidding documents and contractors' work contract – to ensure equal work and pay for people from vulnerable/disadvantaged groups (e.g. women, people from ethnic minority groups...)

Sexual Exploitation and Abuse/ Sexual Harassment

- Implement public awareness campaigns to address sexual harassment in transport services.
- As part of public awareness activities, share GRM (SEA/SH specific) to community members (including female members).
- Recruit a portion of the workers required for the project locally. Bid and contract documents will encourage contractors to hire local workers.
- Train local workers within a reasonable time frame to meet project requirements. Costs for training will be borne by contractors.
- Manage workers accommodation (commute or reside on site) effectively depending on project's need.
- Avoid and when avoidance is not possible, minimize and manage labor influx.
- Training workers on Worker's Code of Conduct (CoC) (See template at Annex 8), inform and train workers in the CoC and ensure it is signed by all workers.
- Implement SEA/SH training.
- Explicitly state zero tolerance for sexual harassment, exploitation, and abuse within the

workplace.

- Require CoC to be signed by all construction workers.
- For victims coming forward: referral to qualified SEA/SH service provider. The GRM will include a confidential channel for reporting SEA/SH.
- Strict Code of Conduct for workers with no tolerance for physical or verbal abuse of women or children
- Training to workers on maintaining good community relations, with emphasis on proper conduct around women and children.
- Training on SEA/SH and VAC for community members, in particular women and girls (may be done separately for men and women).
- Ensuring workers sites are situated (at least 500m) from schools and/or other areas where children congregate.
- Children prohibited from construction site and worker's camp.
- Ensure access to grievance redress mechanisms.
- Support (in the form of training, awareness raising, etc.) to local law enforcement to act on community complaints regarding SEA/SH and VAC.
- Provide counselling services for male and female workers, wives and other female partners of contractor's workers.
- Build partnerships with local health providers and SEA/SH service providers to conduct community awareness activities, and referrals.

Exclusion of Vulnerable/disadvantaged groups

- Provision of information to local communities about the contractor's policies and responsibilities, including the Contractor's Code of Conduct and project's requirement on equal pay.
- Ensure equal pay requirements are included in bidding documents and contractors' work contract – to ensure equal work and pay for people from vulnerable/disadvantaged groups (e.g. women, people from ethnic minority groups...)

4.9.2.6 Climate Mitigation and Adaptation Measures (Construction Phase):

Emission Reduction:

- Use low-emission construction equipment and vehicles.
- Minimize idling time for construction machinery to reduce emissions.
- Promote sustainable transportation options for workers and materials.

Climate-Resilient Construction:

- Incorporate climate-resilient design features into infrastructure construction to withstand climate-related risks.
- Implement flood and stormwater management measures to prevent construction site flooding.

Temperature Extremes:

- Implement heat stress prevention measures for workers, such as shaded rest areas and hydration stations in hot weather.
- Provide adequate clothing and equipment for workers during cold weather.

Community Resilience Building:

- Support local communities in building climate resilience by providing training and resources for climate adaptation.

Monitoring and Compliance:

- Establish regular monitoring and reporting mechanisms to ensure compliance with environmental, social, and climate mitigation measures.
- Conduct periodic audits to assess the effectiveness of mitigation efforts and make necessary adjustments.

160 These mitigation measures should be integrated into the construction management plan and closely monitored throughout the construction phase. Collaboration with relevant stakeholders, including

local communities, environmental experts, and safety professionals, is essential to ensure successful implementation and the overall sustainability of the project.

4.9.3 Operations Phase

161 The potential environmental, social, and climate-related risks and impacts associated with the operations phase of the planned CAISAR irrigation and flood protection project include:

4.9.3.1 Environmental Risks and Impacts (Operations Phase):

1. **Water Management:** Inadequate water management during operations can lead to over-extraction of water resources, which may cause downstream water scarcity, altered hydrology, and harm to aquatic ecosystems.
2. **Water Quality:** The irrigation system's operations can affect water quality, with potential risks of contamination from agricultural runoff, pesticide use, or improper wastewater disposal.
3. **Erosion and Sedimentation:** Ongoing maintenance and operation activities can contribute to soil erosion and sedimentation in water bodies, impacting water quality and aquatic habitats.
4. **Invasive Species:** Poorly managed water flows can facilitate the spread of invasive aquatic species, potentially harming native ecosystems.
5. **Energy Use:** The energy requirements for pump stations, flood control systems, and other infrastructure elements can result in increased carbon emissions if not managed efficiently.
6. **Waste Management** - increase in volume of hazardous and non-hazardous waste requiring safe disposal.

4.9.3.2 Social Risks and Impacts (Operations Phase):

1. **Land Use Conflicts:** Conflicts over water allocation and land use may arise among competing stakeholders, such as farmers, leading to disputes and social tensions.
 2. **Access to Water:** Unequal access to water resources during the operations phase can exacerbate social inequalities, impacting vulnerable communities and livelihoods.
 3. **Health and Safety:** Ongoing maintenance and operations work can pose health and safety risks to workers and nearby communities, particularly if safety measures are inadequate.
 4. **Community Engagement:** Maintaining effective communication and engagement with local communities is crucial to address their concerns and ensure the equitable distribution of benefits.
 5. **Indigenous Peoples Exclusion** – Potential disbenefit to IP's or lack of inclusion in project benefits and opportunities.
 6. **Gender Inequities** – Potential inequities and lack of project opportunities and benefits.
 7. **SEAH.**
 - Potential risk of SEAH from workers due to lack of awareness of expected behavior and consequences. Also, from unregulated or unsafe living conditions in camps that increase SEAH risks for nearby communities, particularly women and children, or close proximity of camps to vulnerable community groups without appropriate safeguards.
 - Lack of a safe, confidential, and accessible mechanism for reporting SEA/SH incidents leads to underreporting and impunity.
 - Survivors do not come forward due to fear of stigma, retaliation, or mistrust in the system.
 - Survivors of SEA/SH lack access to timely and qualified psychosocial, medical, or legal support services.
 - Projects in high-risk areas operate without adequate survivor referral mechanisms.
 - Gender-based discrimination and exclusion from project benefits or decision-making processes.
- Increased SEAH vulnerability due to lack of gender-sensitive planning, implementation, and oversight.

4.9.3.3 Climate Risks and Impacts (Operations Phase):

1. **Climate Variability:** Changes in rainfall patterns, increased temperature, or more frequent extreme weather events can affect water availability and the effectiveness of flood protection systems.
2. **Extreme Events:** The irrigation and flood protection infrastructure must be resilient to withstand extreme weather events, including floods, droughts, and storms.
3. **Maintenance Challenges:** Climate-related impacts, such as increased sedimentation or infrastructure damage from extreme events, can pose challenges for ongoing maintenance and operations.
4. **Energy Efficiency:** Climate mitigation efforts should focus on optimizing energy use and transitioning to cleaner energy sources to reduce greenhouse gas emissions associated with ongoing operations.
5. **Adaptive Management:** The operations phase should include adaptive management strategies to respond to changing climate conditions and ensure infrastructure remains effective.
6. **Community Resilience:** Local communities will require support to build resilience to climate-related risks, such as training in climate-smart agriculture or flood preparedness.
7. **Water Management:** Climate-related changes may necessitate adjustments in water management practices to ensure sustainable and equitable water distribution.

162 Addressing these potential risks and impacts during the operations phase requires proactive planning, ongoing monitoring, and adaptive management. Sustainable water management practices, efficient energy use, and community engagement are crucial components of mitigating these issues and ensuring the long-term success and resilience of the irrigation and flood protection project. Regular maintenance and assessment of the infrastructure's performance under changing climate conditions are essential for its continued effectiveness.

163 Suggested mitigation measures to address the potential environmental, social, and climate-related risks and impacts during the operations phase of the CAISAR irrigation and flood protection project include:

4.9.3.4 Environmental Mitigation Measures (Operations Phase):

Sustainable Water Management:

- Implement efficient water management practices to prevent over-extraction and ensure equitable water distribution.
- Monitor water quality regularly and implement measures to reduce contamination, such as the responsible use of pesticides and proper wastewater treatment.

Erosion and Sedimentation Control:

- Develop and implement erosion control measures to minimize soil erosion and sedimentation in water bodies.
- Regularly maintain sediment basins and silt fences to manage sediment runoff.

Invasive Species Management:

- Implement monitoring and control programs to prevent the spread of invasive aquatic species in irrigation and flood protection infrastructure.

Energy Efficiency:

- Optimize energy use through efficient pump systems, renewable energy integration, and regular maintenance of energy-consuming equipment.

Waste Management

- Implement waste management plan.

4.9.3.5 Social Mitigation Measures (Operations Phase):

Stakeholder Engagement:

- Maintain transparent and ongoing engagement with local communities and stakeholders to address concerns and ensure the equitable distribution of water resources.
- Establish mechanisms for conflict resolution and dispute management related to land use and water allocation.

Access to Water:

- Ensure that water access is fair and inclusive, with mechanisms in place to support vulnerable and marginalized communities in accessing water resources.

Health and Safety:

- Continue to enforce strict health and safety regulations for workers and nearby communities during ongoing maintenance and operation activities.
- Provide ongoing safety training and personal protective equipment to workers.

Indigenous Peoples:

- Implement IPP and ensure full participation of vulnerable or disadvantages groups (e.g., ethnic minorities).

Gender Participation:

- Implement Gender Action Plan and measures to promote female beneficiaries for improved participation in project planning and implementation, and economic empowerment.
- **SEAH** Implementation and enforcement of the Mandatory Codes of Conduct for workers. Regular refresher
- Implementation and monitoring of Guidelines for workers' camps. Regular refreshers.
- SEA/SH-specific grievance redress procedures
- Make the list of SEA/SH service providers for survivor support available in all sub-projects and engage GBV service providers for sub-projects with a SEA/SH/GBV risk rated as high or substantial.
- Implementation and monitoring of the site specific ESMP to address gender-based risks and the Gender and Social Inclusion Action Plan to promote female participation.

4.9.3.6 Climate Mitigation and Adaptation Measures (Operations Phase):

1. Climate-Resilient Infrastructure:

- Regularly assess and maintain flood protection and irrigation infrastructure to ensure its resilience to changing climate conditions.
- Develop flood and drought management strategies based on climate projections.

2. Maintenance and Repairs:

- Implement a robust maintenance program to promptly address damage or sedimentation issues caused by climate-related events.
- Ensure that infrastructure components remain in good working condition to maintain their effectiveness.

3. Energy Transition:

- Transitioning to cleaner energy sources for operation, implement and maintain solar solar pumps to reduce carbon emissions.
- Promote energy-efficient practices within the operational phase.

4. Adaptive Management:

- Establish adaptive management plans that allow for adjustments in water management and infrastructure operations in response to climate variability and extreme events.

5. Community Resilience Building:

- Support local communities in building climate resilience through education, capacity-building programs, and climate-smart agriculture practices.
- Encourage community-led initiatives for flood preparedness and disaster risk reduction.

6. Water Management Adjustments:

- Be prepared to adjust water management practices, such as reservoir release schedules, in response to changing climate conditions and hydrological patterns.

7. Monitoring and Reporting:

- Continue regular monitoring and reporting on environmental, social, and climate-related factors to assess the effectiveness of mitigation efforts and make necessary adjustments.

164 These mitigation measures will be integrated into the ongoing operation and maintenance plan for the CAISAR irrigation and flood protection infrastructure. Collaboration with relevant stakeholders, including

local communities, environmental experts, and climate specialists, is essential to ensure the successful implementation of these measures and the long-term sustainability and resilience of the project during the operations phase. Regular evaluation and adaptation are critical components of managing risks and impacts effectively.

165 The CAISAR irrigation and flood protection project is planned to have the following positive environmental, social, and climate impacts:

4.9.4 Positive Environmental, Social and Climate Impacts:

4.9.4.1 Positive Environmental Impacts:

1. **Improved Water Management:** Irrigation systems help optimize water use, reducing wastage and ensuring efficient distribution of water resources. This will mitigate water scarcity issues and enhance ecosystem health.
2. **Increased Crop Yields:** Irrigation can significantly increase agricultural productivity, reducing the need to expand agricultural land into forests and natural habitats, thereby preserving biodiversity.
3. **Reduced Soil Erosion:** Flood protection measures can prevent soil erosion caused by heavy rains and floods, which helps maintain soil fertility and prevents sedimentation in rivers and water bodies.
4. **Enhanced Ecosystem Services:** Sustainable water management will positively impact wetland ecosystems by maintaining water levels and preserving habitats for aquatic plants and wildlife.

4.9.4.2 Positive Social Impacts:

1. **Improved Food Security:** Increased agricultural productivity due to irrigation will lead to greater food security for local communities, reducing dependence on external food sources.
2. **Poverty Alleviation:** Higher crop yields will enhance the income and livelihoods of local farmers, potentially reducing poverty rates in the region.
3. **Health Benefits:** Access to clean water for irrigation will improve public health by reducing waterborne diseases and improving sanitation practices.
4. **Employment Opportunities:** The construction and maintenance of irrigation and flood protection infrastructure will generate employment opportunities for local communities.
5. **Infrastructure Development:** The project will improve transportation and connectivity, making it easier for people to access markets, healthcare, and educational facilities.

4.9.4.3 Positive Climate Impacts:

1. **Climate Resilience:** Flood protection infrastructure will help communities adapt to climate change by reducing the impacts of extreme weather events and flooding.
2. **Carbon Sequestration:** Irrigation will enhance the carbon sequestration capacity of soils, contributing to climate change mitigation efforts.
3. **Reduced Emissions:** By increasing agricultural productivity and reducing the need for land conversion, the project will indirectly help reduce greenhouse gas emissions associated with deforestation and land-use changes.
4. **Improved Water Efficiency:** Efficient irrigation practices will reduce the energy and water requirements for agriculture, which can lower greenhouse gas emissions associated with water pumping and distribution.

166 The success of the CAISAR project depends on effective planning, sustainable practices, and

community engagement. Environmental impact assessments and social safeguards will be in place to mitigate any potential negative consequences and ensure the long-term sustainability of these positive impacts.

5. PROCEDURES FOR REVIEW, CLEARANCE, AND IMPLEMENTATION OF SUBPROJECT E&S INSTRUMENTS

5.1 Objective and Approach

167 Since some of the activities and subprojects will be identified during implementation, this ESCMF was prepared to apply to all subprojects and investment activities. The main objective of the ESCMF process is to ensure that the subprojects and activities financed by the project will not create adverse impacts on the local environment and communities, and the residual and/or unavoidable impacts are mitigated in line with the IAAB, IFAD and GCF safeguards standards.

168 During implementation, identified activities/subprojects will be screened for and given a risk classification based on their E&S issues and applicable safeguards standards (ESSs), after which any necessary environmental and social assessment (ESA) and other E&S instruments will be prepared based on the requirements laid out in this ESCMF. The assessments, instruments, and mitigation measures will be proportionate to the nature and scale and the potential risks and impacts of the project and consistent with the requirements of IAAB, IFAD, the GCF, and national laws/regulations. The safeguards plans prepared for subprojects may include but are not limited to: Environmental and Social Management Plans (ESCMs); including health and workers issues related to sexual exploitation and abuse (SEA); and IP Plans. Terms of reference, work plans, and documents defining the scope and outputs of any site-specific safeguard's capacity building activities (for example, through the annual Information, Education, and Communication program) will be drafted so that the advice and support provided is also consistent with the IAAB, IFAD and GCF safeguards standards. Based on the initial sub-project safeguards screening, any subsequent ESA would: (i) cover the requirements established under the relevant safeguard standard for that subproject; and (ii) identify the environmental and social risks and impacts including direct, indirect, cumulative, and residual impacts.

5.2 Key Steps

169 The ESCMF process is comprised of four steps, as depicted in **Figure 7** and summarized below:

STEP 1: Screening for eligibility and E&S issues including risks and impacts using screening criteria, application of ESSs, and identification of and needs for preparation and implementation of E&S documents/instruments.

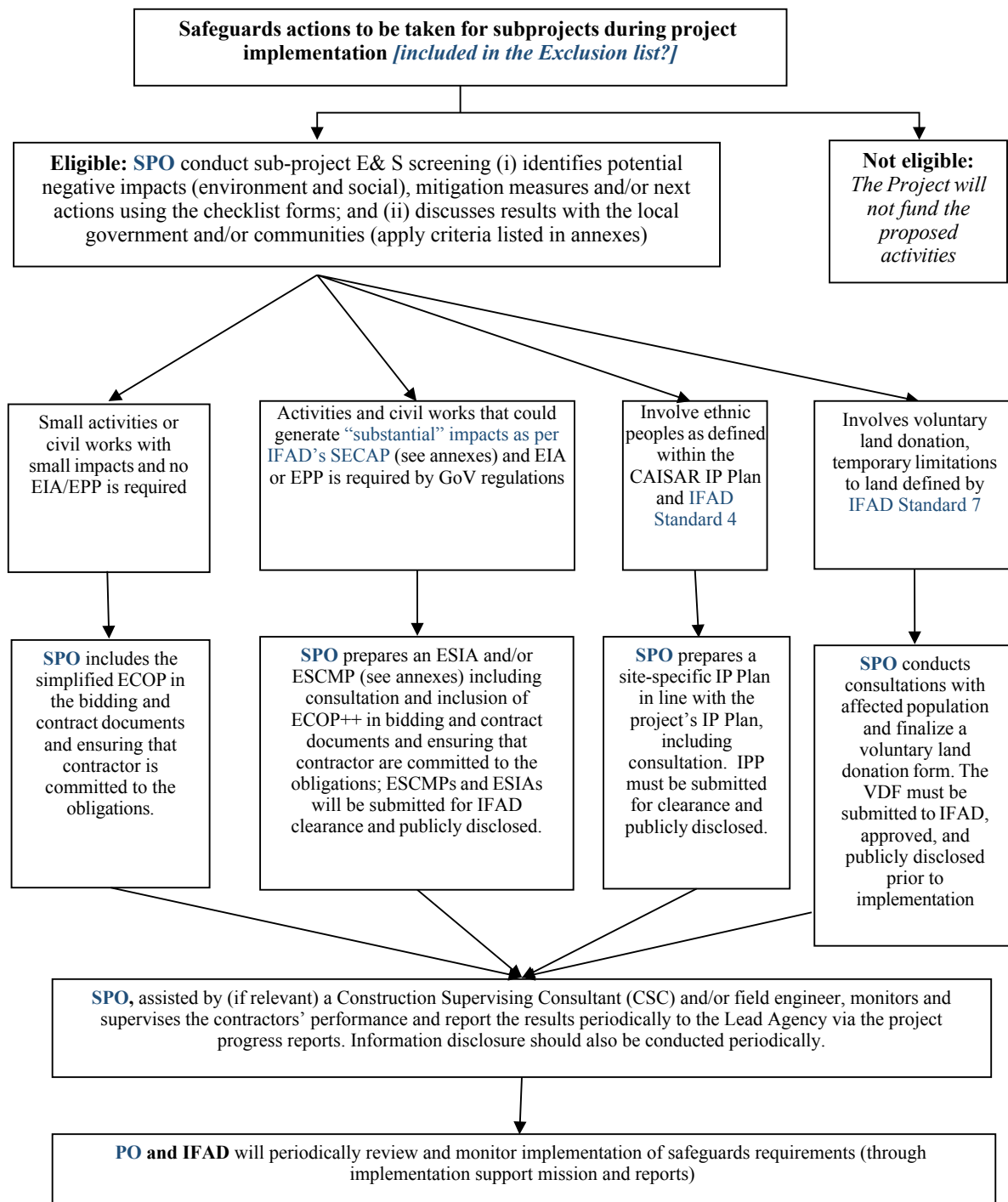
STEP 2: Prepare E&S documents, including the development of mitigation measures in the ESCMP, IP Plan, and RP to be incorporated into bidding and contractual documents and subjected to close monitoring of the contractor performance. ESCMPs clearly identify mitigation measures for potential negative impacts during site clearance and construction, including the management of contractors, chance finds, EHS application, and workers' Codes of Conduct.

STEP 3: Clearance and disclosure of E&S documents; and

STEP 4: Implementation, monitoring, and reporting.

170 The risk analysis, impact assessment, and preparation of E&S documents for all subprojects will be carried out during implementation. A full ESIA is being conducted for the project. Preparation of a subproject ESCMP occurs when the subproject activities have been clearly identified and locations are known. During the preparation of the ESCMP, due attention will be given to address the issues of biodiversity conservation and sustainable management of living natural resources, resource efficiency and pollution prevention, labour and working conditions, community health and safety, indigenous

persons/ethnic minorities, women, cultural heritage, and stakeholder engagement and information disclosure.



Legend: "PO" is project owner; "SPO" is subproject owner

Figure 5-1: Flowchart for Safeguard Actions for Subprojects

171 Key safeguards actions can be highlighted as follows:

- Small works to be carried out under Component 2 will incorporate a site-specific ESCMP requirements and an ECOP into the bidding documents and consultant contracts, with contractor performance closely monitored by the responsible persons of the implementing agencies.
- If screening highlights the need for voluntary land donation or temporary disruption to land use, a Voluntary Land Donation form must be prepared and consulted upon (in line with the VGGT principles and IFAD Standard 7), as well as approved and disclosed prior to sub-project implementation.
- If the ethnic minorities are present in the subproject, a site-specific IP Plan will be prepared and implemented according to IFAD Standard 4 and the guidelines can found in the project's overarching IP Plan.
- All the major E&S documents of a given subproject will be submitted for IFAD clearance before their respective approval and implementation.

5.3 E&S Risk and Impact Assessment

172 This step (Step 1) aims to confirm the eligibility of subproject and/or activities to be financed by the Project as well as identify the potential E&S issues and assess potential impacts of the subprojects/activities including needs for preparation of E&S documents as required by IFAD/GCF standards using an E & S screening checklist. The agencies responsible for implementing the subproject/activity will be responsible for undertaking and signing the screening forms. PPMUs will each be responsible for screening their own activities. Consultation with IFAD safeguards specialists can be made as needed, depending on subproject complexity.

5.4 Development of E&S Documents

173 This step (Step 2) is focused on preparing safeguards documents in relation to the issues identified in Step 1. Guidelines for the preparation of an ESCMP are provided in the annexes, whereas a project-level SEP and IP Plan have been developed separately. Again, PPMUs will be responsible for their own activities and subprojects, and their corresponding safeguards specialists will be responsible for the preparation of E&S documents. Consultation with IFAD safeguards specialists for complex subprojects will be made as needed.

174 It is also crucial that the implementing agencies of the subprojects and activities are responsible for preparation of E&S documents (e.g. EPP, EIA, etc.) required by the Government of Cambodia's EIA regulation and secure approval of responsible agencies.

5.5 Review, Approval, and Disclosure of E&S Documents

175 **IFAD review and clearance:** Before approval and commencement of subproject works, the Subproject Officer (SPO) will submit all key E&S documents to IFAD for review, clearance, and public disclosure. For CAISAR, it is suggested that IFAD conduct reviews of the first three ESCMPs prepared by each province and may then reduce (or increase) frequency as needed. The approval process described herein may also be reviewed occasionally, particularly once the E&S capacity of the implementation partners has been built with the support of the E&S capacity-building consultants/project safeguards specialists. At that point, IFAD may choose to review ESCMPs selected at random.

176 All E&S documents will be posted on the official websites of MOWRAM and the project provinces, and hardcopies in the Khmer language will be available at the CPMU, PPMU, and subproject sites. The CPMU and PPMUs must publish a notification of disclosure of information and solicit comments within the month following that disclosure date. The English version of the ESCMPs will be disclosed on the IFAD (and potentially GCF) website(s).

177 Government approval: Responsible agencies are also required to approve the ESIA or EPP documents as required by Government regulation. Any prepared EIA (in Khmer or English) as well as the approval conditions will be provided to IFAD for information and will be disclosed to the public.

5.6 Implementation, Supervision, Monitoring, and Reporting

178 ESCMF implementation, supervision, monitoring, and reporting is an integral part of project and subproject implementation. Each E&S staff is responsible for specific activities. IFAD SECAP specialists also supervise and monitor the implementation of safeguards activities during IFAD project supervision missions. Delegation of responsibilities is as follows:

- **Gender Action Plan and IP Plan monitoring:** The PPMU will hire a social inclusion/gender specialist to monitor the implementation of the IP Plan and GAP and report results to IFAD.
- **E&S monitoring of contractor performance during construction:** To ensure compliance with the national laws and regulations as well as some specific requirements of the IFAD SECAP standards at subproject level, PPMUs will hire a qualified national consultant to conduct monthly monitoring and reporting while assigning the Construction Supervision Consultant (CSC) or field engineers to be responsible for monitoring and reporting of contractor's compliance to the construction-focused ESCMPs on a day-to-day basis. At the project level, the PPMU Environmental Safeguards Specialist will ensure monitoring of environmental and social performance at sub-project sites and of the construction contractor throughout construction. The Environmental Safeguards Specialist will report their findings in the Project E&S monitoring reports for IFAD and GCF (this will be done on a six-month basis, or as agreed with IFAD and GCF in accordance with the legal agreement). The PPMU will also be responsible for monitoring and evaluating implementation of the Stakeholder Engagement Plan, including responses to grievances and/or complaints of the project/subproject affected peoples as well as the project workers (see Section 10).
- **E&S monitoring during implementation of activities/operation of infrastructure:** Specialized training will be provided on risks inherently associated with project activities that involve waste management, occupational health and safety, and community health and safety. E&S staff must pay extra attention – proportional to the more substantial risks – to those activities during implementation. To ensure sustainability after project closure, the awareness and capacity of MOWRAM/PDWRAM staff and related implementing agencies must be increased through trainings and during implementation supervision. This will require E&S capacity building consultants (including extension staff). PPMUs will detail safeguards progress in the subprojects' E&S monitoring reports for submission to the CPMU. The CPMU will then aggregate and submit the information to IFAD and the GCF.

6. IMPLEMENTATION ARRANGEMENTS

6.1 Responsibility for ESCMF Implementation

179 The feasibility study included recommendations on how the CAISAR Project should be implemented and is summarized in the following paragraphs. The CAISAR project has a clear objective related to both climate and poverty, but the ambitious scope requires cooperation between government agencies. The project will be adopted by the existing country program steering committee chaired by the Ministry of Economy and Finance (MEF). The executing agency, the Ministry of Water Resources and Meteorology (MOWRAM) will provide overall management of the project and implementation of Component 2 (Infrastructure). The National Committee for Sub National Democratic Development (NCDD) will be the implementing agency for component 1.

180 The Project Management Unit (PMU) will consist of personnel from MOWRAM, the Department of Hydrology and River Works (DHRW) of MOWRAM, and Provincial Departments of Water Resources and Meteorology (PDWRAMs) of four provinces.

181 The NCDD working with the International Fund for Agricultural Development (IFAD) will lead Component 1, which involves providing farm level support, capacity building and training of FWUCs, and promoting the adoption of efficient and climate resilient farming practices. IFAD will also be responsible for communications and visibility throughout the project's implementation.

182 Other key phases of implementation include a pilot program for solar pumping and geofabrics to identify any inefficiencies before the full construction phase, with a budget of \$60k. Surveys will also be carried out on dam structures and river sections and structures to determine where work is required to rehabilitate and climate-proof the infrastructure, with a budget of \$70k managed by the PMU. It is known that the Anlong Chrey dam has limited freeboard and MOWRAM wish to improve safety of the structure.

183 Monitoring and evaluation will be a crucial aspect of the project's success, with engagement at the FWUC level monitoring and reporting to ensure capacity is being increased in time to realize the significant benefits expected upon completion of construction. Material effectiveness and quality of design will also be monitored and evaluated to ensure the scheme is delivered to a standard consistent with at least a 25-year asset life.

184 The roles and responsibilities of each organization have been clearly outlined, with MOWRAM responsible for overall supervision and guidance, and the DFWUC responsible for preparing the annual work plan and budgets, initiating, and coordinating communication, coordinating with the Ministry of Agriculture, Forestry and Fisheries (MAFF) on agriculture support activities, and implementing social and environmental safeguards, among other tasks. The PDWRAM will assist the PMU in disseminating information and coordinating with the Ministry of Economy and Finance-General Department of Resettlement (MEF-GDR) to implement the resettlement plan, among other tasks.

185 The project steering committee (PSC), chaired by the Minister of MOWRAM, will provide policy guidance and oversee project implementation, while the Inter-Ministerial Resettlement Committee (IRC), chaired by MEF, will manage resettlement and land acquisition. By following this implementation arrangement, the CAISAR project can proceed smoothly and achieve its goals of improving water resource management and enhancing agricultural productivity in Cambodia.

6.2 Project Implementation Organizations (Component 2)

186 The expansion of irrigated areas and the modernization of irrigation systems are high in the order of priorities of the Royal Government of Cambodia as well as the Ministry of Water Resources and Meteorology (MOWRAM), which is responsible for sustainable water resources management, including irrigation in Cambodia. Proper irrigation O&M can only be successfully implemented when the five basic pillars of irrigation are properly addressed. These five pillars are: (i) security of water

availability; (ii) sustainable infrastructure; (iii) water management, (IV) Irrigation institution and (v) human capital.

187 The FWUC Department has personnel at the Central level but no Office and personnel at the Province and District level so for the effective operation of FWUC the DFWUC should recruit and or appoint additional personnel and train them to meet the right qualification and experience for the FWUC office at the provincial and district levels.

188 A CAISAR project implementation organization chart is defined in Source: Feasibility Study

189 Figure 6-1. MOWRAM is the Executing Agency for implementation of the Project. However, successful implementation of the Project requires the cooperation of several ministries. The project steering committee (PSC) was established to achieve the inter-ministerial coordination and chaired by the Minister of MOWRAM and comprising of senior officials from MOWRAM, MOI (NCDD), MAFF, Ministry of Environment (MOE), Ministry of Economy and Finance (MEF), and the Provincial Governor's Offices of Pursat, Kampong Chhnang, Kandal, and Kampong Speu provinces will oversee project implementation and provide support to the project. The Table 6-1 below show the Management, Executive and Implementation body and Figure 6-1 show the Project organization Structure.

Table 6-1: PSC Management Arrangement.

Descriptions	Arrangements
Management	
(i) Oversight Body	Project Steering Committee (PSC) Chair: H.E. Lim Kean Hor, Minister, MOWRAM Secretary: H.E. Chann Sinath, Deputy Director General, DFWUC/Project Director Members: H.E. Secretary of State, MOI (NCDD) H.E. Secretary of State, MEF H.E. Secretary of State, MOWRAM H.E. Under Secretary of State, MEF H.E. Under Secretary State, MAFF H.E. Director General, MEF H.E. 4 Provincial Governors Director of Department of Cooperation and Debt Management, MEF Office of Multilateral Cooperation 1, MEF
(ii) Executing Agency	MOWRAM
(iii) Implementation Unit	Establish PMU at MOWRAM Level and possibly PIU at PDWRAM Level

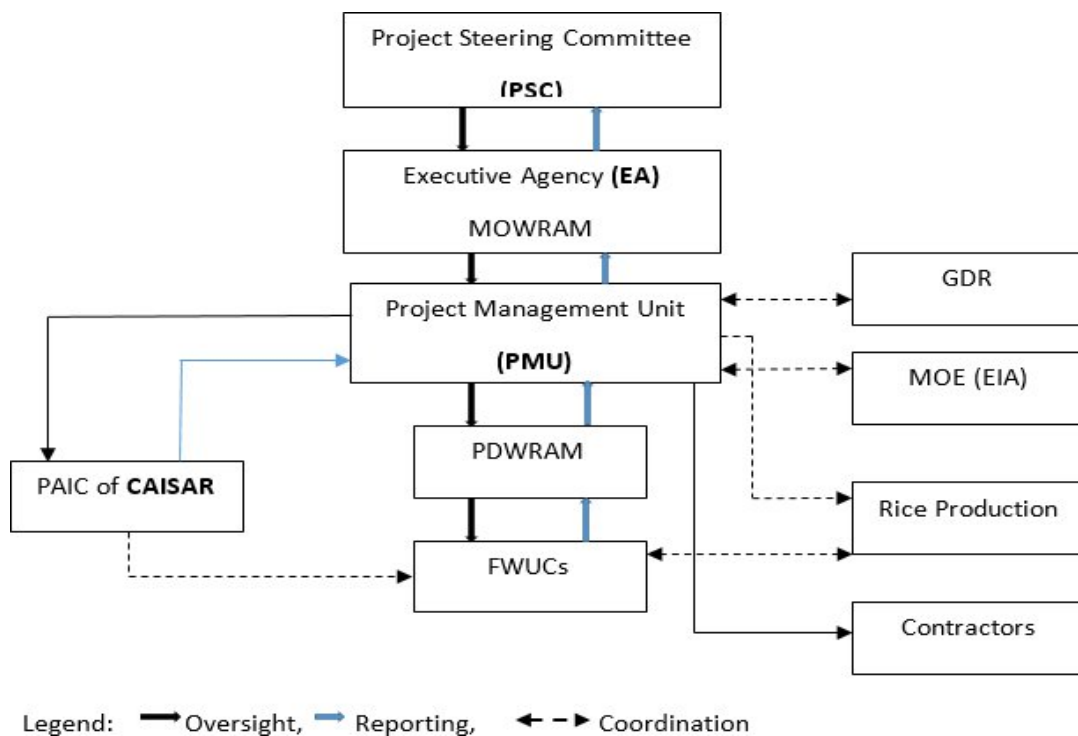
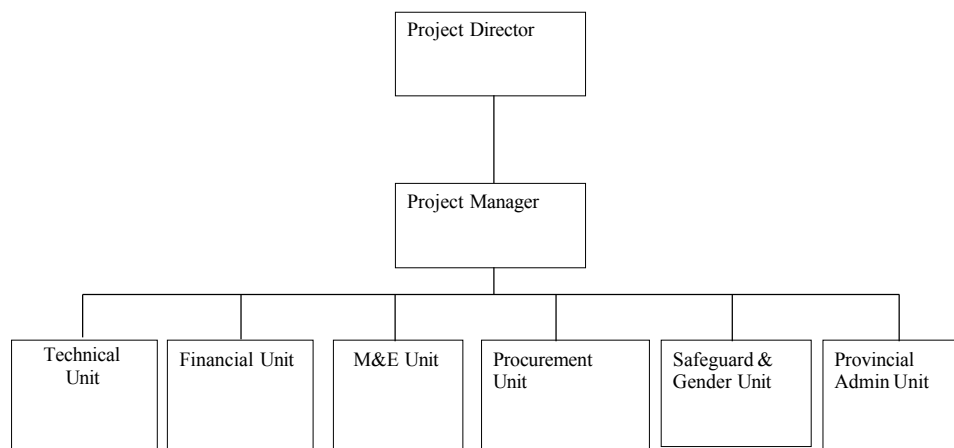


Figure 6-1: CAISAR Project (Component 1) Structure Chart

190 A project management unit (PMU) has been established for the CAISAR project. The PMU will be headed by the Secretary of State of MOWRAM as Project Director, with assistance from the DFWUC Director as Project Manager. The PMU will be fully involved in the preparation and implementation of the project. The PMU is composed of designated personnel from MOWRAM, the Department of Hydrology and River Works (DHRW) of MOWRAM, and the PDWRAMs of Pursat, Kampong Chhnang, Kampong Speu, and Kandal provinces.

191 The PDWRAMs are responsible for coordinating all field activities with FWUCs and DFWUC and implementing O&M activities.

192 The PMU is supported by the Project Management Implementation Consulting (PMIC) and consists of Project Director, Project Manager, Technical Unit, M&E Unit, Financial Unit, Procurement Unit, Safeguard & Gender Unit and Provincial Administration Unit as show in Figure 6-2 below.



Source: Feasibility Study

Figure 6-2 PMU Structure Chart

6.3 Project Implementation Organizations at Sub-National Level

193 Note that the following text applies to Component 2 only. It is envisaged that IFAD will detail further the role of the NCDD and the coordination with the provincial and district agencies for agriculture, rural development etc.

6.4 Provincial Department of Water Resources and Meteorology (PDWRAM)

194 The Provincial Department of Water Resources and Meteorology of MOWRAM is the mandated body tasked to undertake full responsibilities for the O&M of the Main system/scheme. Specifically, PDWRAM is expected to perform the following responsibilities:

- a) Ensures that the main canal infrastructure is properly maintained and repaired.
- b) Ensures that the seasonal water management plan is endorsed and approved.
- c) Ensure that in the dry season the main canal system provides sufficient water.
- d) Provide technical assistance to FWUC and its members in the operation and maintenance of the irrigation systems/scheme.
- e) Assume leadership in the resolution of conflicts on water disputes.
- f) Operation and maintenance of main canal systems with appropriate funding provided by the Royal Government of Cambodia.
- g) Implement routine maintenance of the Main Canal system including the structures.
- h) Update report to MOWRAM on the deferred maintenance needs of the system including an estimate cost and time repair work.
- i) Monitor the volume of water in the main canal and the level of water released to the water users in order for it to function normally.

6.5 Project Implementation Organizations at Scheme Level

195 According to the FWUC Sub-decree of March 2015, a FWUC shall be established and registered with MOWRAM for each irrigation system/scheme in Cambodia. Establishing the FWUC is important in helping sustain the irrigation schemes to be constructed under the Project. Therefore, the Project will establishment an efficient and effective FWUC and will provide adequate inputs and supports to ensure that the FWUC will be able to function effectively.

196 The FWUC will be established as early as possible after a subproject has been proved feasible and endorsed for the construction to enable the local farmers to participate in all stages of the project formulation and implementation.

197 The establishment of a FWUC requires considerable efforts in community organization and training of the established FWUC. The general strategy in mobilizing and organizing the farmers is described below:

- (i) One FWUC is organized in each irrigation system/scheme, hence, there will be 4 FWUCs established in the CAISAR, 1 FWUC will need to be restructured or have the committee members re-elected, and 1 FWUC needs more capacity building as mention in Table 6-2 below.
- (ii) One FWUG is delineated and organized within the command area of one secondary canal (SC). When the SC area is small, a FWUG could also cover more than one SC.
- (iii) One FWUSG is delineated and organized within the command area of one or more tertiary canal (TC)

Table 6-2: Distribution Network & Name of FWUC to be established in the CAISAR Scheme.

No	Scheme Name	Command Area (ha)	Number			Number		
			District	Commune	Village	FWUC	FWUG	FWUSG
1	Ou Tapoang Tanai	13, 270	1	2	31	1	2	31
2	Lum Hach	16,664	3	10	55	1	10	55
3	Chhean Laeung	5,307	1	3	15	1	3	15
4	Stueng Krang Bat	1,500	2	3	13	1	3	13

No	Scheme Name	Command Area (ha)	Number			Number		
			District	Commune	Village	FWUC	FWUG	FWUSG
5	Brambei Mom	16,556	3	12	56	The current FWUC is weak and incapable of collecting ISF. It needs to be restructured and or re-elected as the current FWUC is governed by only 4 communes out of 12 communes in the CAISAR Project scheme.		
6	Krapeu Troum	903	1	1	14	This FWUC is active and they need more capacity building, support and documentation.		

198 After the FWUC's are recognized and officially registered, the Farmer Water User Committee (FWUC) will have full responsibility for the operation and maintenance of the irrigation system as follows:

- a) Has the obligation to collect the irrigation service fee (ISF) from all its members for repair and maintenance of the secondary and tertiary irrigation system.
- b) Resolve all internal conflicts involving water distribution between and among other FWUC leaders.
- c) Convene the General Meeting once a year and other meetings with group and subgroup member as required.
- d) Take action to replace vacant position of the structure as required and in accordance with its Statute.
- e) Ensure that ISF are collected and kept properly and evaluate expenditures, manage and monitor the level of ISF in each phase and adjust as needed after approval from the members.
- f) Assist in facilitating the support of the MOWRAM, PDWRAM and Development Partners on repairs, maintenance, and development of irrigated infrastructure as well as on agricultural development.
- g) Mobilize local labor and financial resources to support regularly and seasonally operations and maintenance of irrigation system such as secondary and or tertiary canals and other parts.
- h) Review on all kinds of secondary and tertiary canals and structures and Submit report to the PDWRAM.
- i) Conduct seasonal maintenance before season of planting.
- j) Prepare seasonal water distribution schedule for each growing season and provide a copy to PDWRAM for the preparation of the seasonal water management plan.
- k) Manage the distribution of water under the guidance of PDWRAM because these structures are usually under the responsibility of PDWRAM but the operation of these gates will be transferred to the FWUC.

6.6 Procurement

199 The procurement principles to be followed by the CAISAR project were set out in the Aide Memorandum between MOWRAM, AIIB and IFAD following missions in December 2020 and January 2021. Project procurement using AIIB/GCF/IFAD financings will follow the Standard Operating Procedures on Procurement for All Externally Financed Projects/Programs in Cambodia (the SOP 2019/ Procurement Manual) to the extent such are consistent with the IFAD and AIIB Project Procurement Guidelines. NCDD PIU will be directly responsible for project procurement activities of Component 1. MOWRAM PMU will be directly responsible for project procurement activities of Component 2. Procurement review committees for both components will have representatives from both MOWRAM PMU and NCDD PIU.

200 Procurement method thresholds and prior review thresholds for GCF/IFAD financed activities will be determined and specified in the Project Procurement Arrangements Letter (PPA). Requests for IFAD prior review and no objection (for 18-month/annual procurement plans, procurement documents subjected to IFAD prior review) shall be routed through IFAD's web-based procurement management and tracking system (the current NOTUS system to be upgraded in 2023).

201 For the procurement of AIIB/GCF/IFAD financed activities, the standard bidding documents under the MEF's Standard Operational Procedures will be adopted and used with integration of additional provisions in compliance with the AIIB/IFAD Policy on Preventing Fraud and Corruption in its Activities and Operations, and IFAD's Social, Environmental and Climate Assessment Procedures (SECAP).

202 For Component 2 activities, three areas will be identified, (a) Project Management by PMU (b) Preparation of TOR's for DED and Pilots, surveys, detailed engineering design (DED) and contract preparation and tendering towards implementation (c) Packages of work and purchase/Installation of M&E goods such as solar pump stations.

203 For (a) and (b) the PMU already have a procurement plan detailing when the work is expected, how and when it will be procured and budgets. These do not need to be repeated here as they are continually updated by the PMU.

204 For the implementation phase a series of packages for civil works of around \$10m-\$20m can readily be defined and contracts requiring specific expertise such as the nature-based works on the river restoration work at Ou Ta Pong River, or the heavier engineering work for the upgrading of the offtake structure on the Damnak Ampil and widening/lining of the feeder canal linking to the Ou Ta Paoung River. Lining of secondary offtake canals to increase capacity whilst limiting additional land take may be similarly packaged. For tertiary and quaternary canals significant work with the local communities is needed to finalise design and layout acceptable to the farmers and landowners. To avoid double pumping raised canals and solar pump installations are needed. Land requirements may be reduced through buried pipe or channel systems with access roads above. Continuity for drainage and fish may require small siphons. On the Krang Ponley particularly, expertise in storages and pond restoration is needed as well as more significant drainage works and embankment raising. Creating farm ponds in Cambodia is significantly more expensive than in Thailand where conditions are similar and there is potential for improving efficiencies.

6.7 Monitoring and Reporting Arrangements

205 The E&S performance will be included in the subproject and overall project progress reports. The two safeguards specialists in each of the PPMUs, with assistance from the CSC/field engineers (where relevant), will monitor and report on the E&S performance of the project. The safeguards specialists in the PPMUs will submit E&S performance reports at the subproject level to the CPMU on a monthly basis. At the central level, the CPMU will prepare E&S monitoring report twice per year for submission to IFAD and the GCF, describing the project's progress and compliance with the SECAP/GCF safeguards standards and other requirements.

206 The progress report submitted to the CPMU must include sufficient information on subproject implementation progress and E&S issues related to ESCMF implementation. The overall progress report from CPMU to be submitted to IFAD and the GCF must include adequate information regarding: (i) preparation and disclosure of the E&S instruments for subprojects; (ii) implementation progress of the ESCMP, including incorporation of the ECOP/COC on SEA/other ESCMP requirements pertaining to the contractor in the bidding and contractual documents; (iii) monitoring and supervision on implementation performance of contractors, CSCs, and PPMUs according to the ESCMP, ECOP, and COC on SEA; and (iv) any challenges, solutions, and lessons learned during E&S/ESCMF implementation. Table 6-3 provides a summary of reporting procedures.

Table 6-3: Reporting Procedures

	Report Prepared by	Submitted to	Frequency of Reporting
1	Contractor to the Employer	PPMUs	Once before construction commences and monthly thereafter
2	Construction Supervision Consultant (CSC)	PPMUs	Weekly and monthly

3	Community Monitoring	PPMUs	When the community has any complaint about the subproject E&S/ESCMF implementation
4	PPMUs	CPMU	Monthly
5	CPMU	IFAD and GCF	Once every six-months, in accordance with any signed legal agreements.

6.8 Incorporation of ESCMF into Project Operational Manual

207 The ESCMF process and requirements will be incorporated into the Project Implementation Manual (PIM) and the CPMU will provide training to ensure that the subproject owners (PPMUs) understand them and will supervise and monitor the ESCMF implementation periodically. The E&S section in the POM will also refer to the ESCMF and related safeguards documents, as needed.

7. CAPACITY BUILDING, TRAINING, AND TECHNICAL ASSISTANCE

7.1 Capacity Building for Efficient Project Management

208 Capacity building is a component that will provide supports to MOWRAM/ PMU and PDWRAM to strengthen their capacity with the objective to expedite Project implementation and ensure effective Project management. The capacity building will cover (i) overall Project management, (ii) establishment of FWUCs and capacity building of FWUCs and iii) international and national consultants to fill capacity gaps of MOWRAM/ PMU and PDWRAM.

7.2 MOWRAM/ PMU and PDWRAM

209 The institutional assessment report prepared by PPIC and WAPCOS, December 2022 noted that the weak and insufficient capacity of human resource in all levels of the irrigation management is the primary cause of the slow rural development in Cambodia. The need for adequately trained professionals in water resources and irrigation management in Cambodia is an issue. The capacity building can be performed through education, training, workshop, etc.

210 Based on the institutional assessments report of the Water Resources Management Sector Development Program (WRMSDP), the training for MOWRAM and PDWRAM will include all personnel at the central and provincial levels that are involved in the CAISAR project scheme. This means that the officers who will be involved in the CAISAR project will also be trained. However, the training for FWUCs TOT must be included. For the CAISAR project it is advised that the training plan covers all 6 Irrigation Schemes with both for CAISAR PMU and PDWRAM with topics including 1) Project Orientation and Presentation of Project Plans; 2) FWUC Formation and Strengthening; 3) Gender Awareness and Gender Action Plan; 4) Data Management for Hydro and Meteorological Data and O&M for Meteorological Equipment; 5) Environmental Awareness; 6) Construction Management and Supervision and 7) On-Farm Water Management and Operation and Maintenance.

7.3 FWUC/FWUG/FWUSG

211 To help the trainees clearly understand and be able to apply them to their work, it was noted that each training program needs to dedicate sufficient time for each topic.

212 For FWUC management training programs are needed to strengthen the capacity of existing or new FWUCs that includes: a. Basic administrative management, b. Accounting and finance, c. Conflict resolution, d. Operation and maintenance of irrigation facilities and e. Collection of irrigation service fees.

213 It is suggested that FWUC need to have the opportunity to meet regularly and exchange their personal experiences and to learn from each other regarding FWUC management. Interaction between FWUCs can help to reduce conflicts between FWUCs in the same irrigation scheme/ reservoir.

214 As each FWUC have different geographical characteristics, socio-economic condition and different issues, training materials should be simplified by using the simple words and expressions commonly used by the local people

215 A well-defined FWUC Organizing Framework within MOWRAM/PDWRAM needs to be synchronized with the Water Distribution Schedule and agreed upon within the FWUC and disseminated to all farmer-water users within the Irrigation scheme.

216 The Project should construct the secondary and tertiary canals until the tertiary gates and will assist FWUC in collection of ISF.

217 The institutional assessment report has suggested that Technical and financial support will be provided to the FWUC that will manage the operation of Ou Tapoang, Lum Hach and Kraing Pomley Scheme to ensure that system O&M is conducted in an effective and sustainable manner.

218 To ensure effective and consistent training on E&S, particularly under the new IFAD SECAP (2021) and GCF ESS (2022), training should be provided by qualified national consultants. In addition to refresher training on safeguards pertaining to waste management, use and disposal of pesticides/fertilizers, etc., there must be additional training focused on ensuring the effective performance of contractors – including provision of adequate services related to health, safety of workers and local communities.

7.4 Training and Technical Assistance

219 Training and capacity building on the IFAD SECAP/GCF ESS has been recommended to address the concepts of proportionality and adaptive management as well as cover the implementation of the safeguards documents as they relate to: (i) contractor management and monitoring of E&S issues concerning labour; (ii) community health and safety; (iii) environmental health and safety; and (iv) requirements for systematic stakeholder engagement. The targeted training programs focused on E&S risk management could also help strengthening inter-agency coordination and cooperation which is critical for ensuring effective management of all aspects of climate change adaptation. Given the project structure and the plan to implement a number of subprojects in each province involved, significant inputs from qualified national consultants will be required, along with on-the-job training on assessing risks and impacts management during preparation and implementation.

220 During implementation of Project, E&S training and technical assistance will be provided to the implementing agencies both at the Project and subproject level. During the first three years, the CPMU will conduct at least two safeguard training workshops per year (one on environment and one on social) to the subproject owners regarding the ESCMF process and needs for preparation of safeguard documents (ESCMs, SEP, IP Plans, and ECOP etc.). When possible, an IFAD SECAP Specialist will participate in these training workshops. Safeguards technical training for any other specific issues and related aspects should occur at least once per year for three years. This could be combined with the annual IEC.

221 Priority for training should include, but is not limited to, the following:

- (i) The ESCMF process and guidelines for preparation, implementation, and supervision of E&S instruments designed for CAISAR and its subprojects;
- (ii) Specific training on the IP Plans, SEP, and labour management with regard to planning and implementation, including the application of differentiated GRM pathways to more effectively respond to local complaints;
- (iii) Specific training on supervision and monitoring of contractor performance, including forms and reporting processes; basic knowledge on health and safety; good construction practices for reducing potential impacts on local environment and local peoples; Codes of Conduct on SEA; and communication and GRM procedures and other social issues related to communicable diseases (including covid-19), etc.;
- (iv) Specific training on IPM; safe use and disposal of pesticides/herbicides/chemical fertilizers being used in primary production;
- (v) Specific training on waste management, including hazardous and bio-hazardous waste;
- (vi) Specific training on the use of PPE and best practices (during construction, pesticide application, etc.).

7.5 Technical Assistance on E&S Capacity Building

222 Given the specific needs related to E&S training and limited capacity of some agencies with respect to the newest IFAD SECAP and GCF ESS, a qualified national firm could be mobilized by the CPMU to provide E&S training, supervision, monitoring, and reporting of the ESCMF implementation and SECAP/ESS compliance to IFAD and the GCF. If required by IFAD and/or the GCF, the CPMU will also mobilize an independent monitoring agency (IMA) for monitoring of IP Plan implementation, voluntary land donation (if applicable), and other E&S consultants to assist in the preparation and/or monitoring of various E&S activities during implementation. PPMUs may mobilize E&S consultants

(either individual or hired through a firm) to assist in the implementation of ESCMF, preparation of E&S documents, and mitigation measures of the subprojects under their responsibility.

223 MoWRAM have significant experience in application of the World Bank ESF and the Asian Development Bank safeguards policy through a number of similar projects over the past several years. Through this project, MoWRAM have maintained a proven track record for safeguards compliance. MoWRAM keep improving their capacities, through continued capacity development of staff of the Environmental and Social Office (ESO). Some of the staff within the ESO have solid working experience in engineering, community development, environment, social and public administration, engaging with indigenous people, and most have been trained by the World Bank on various topics related to environment and social management in rural development projects. The ESO with MoWRAM have a total of 7 staff (4 are female) who are assigned to different projects. The ESO will need additional technical support during the WASAC project implementation from E&S specialized staffs. MoWRAM will engage additional national consultants to work alongside staff of ESO to support the PMUs of MoWRAM in day-to-day E&S implementation and management.

7.6 Review of MoWRAM/PMUs capacity in prevention of SEA/SH risks

224 The MoWRAM PMUs have experience in identifying SEA/SH risks and prevention of SEA/SH based on lessons learned from several previous projects. Under this project, based on identified risks of SEA/SH, an approach and framework for management of SEA/SH risks has been proposed, and further addressed in the Labor Management Procedures (See template at Annex 15). PMUs will appoint one social officer and one GRM officer to ensure the SEA/SH risks are monitored and reported. In addition, the MoWRAM PMUs have assigned a gender focal point to provide on-the-job training to the Contractors.

225 At an early stage of project implementation, MoWRAM PMUs will recruit E&S consultants, and engage a consultant specialized in SEA/SH to carry out SEA/SH trainings for PMU members and relevant members of MoWRAM, ESOs. MoWRAM also ensure that SEA/SH risks will be updated based on local experience and site conduct at respective subprojects. Accordingly, actions to be taken to prevent SEA/SH will be updated and included as part of the ESCMPs, and which will be subsequently applied as part of construction Contractor responsibilities (as prescribed in the Contractors' Work Contract). Budget will also be allocated (in Contractor's bill-of-quantity) to ensure the Contractor has budget in place to recruit a SEA/SH consultant to conduct public awareness raising on SEA/SH at subprojects, and to undertake SEA/SH management measures on the part of Contractors' workers and staff to minimize the risks of SEA/SH. In case where SEA/SH incidence is frequent or a significant episode has occurred.

226 Land acquisition and voluntary donations training will be conducted by the E&S Consultant. It is expected this training could be started as soon as E&S specialized staff are engaged by MoWRAM. Additional support from E&S staffs will be needed monthly or bimonthly during the construction phase, and quarterly or biannually during maintenance phase based on the need for support for the select subprojects. These training initiatives will be carried out face-to-faced. In case COVID-19 restrictions return, virtual training will be conducted. Zoom or Webex will be used for online training, The training will have knowledge session combined with discussion/exercises/role plays/quiz with Questions & Answers session at the end of each day. The training will be delivered in different time format, depending on the topics, number of participants, time availability, and may typically range from one day to three days. MoWRAM and PMUs will engage qualified trainers for the above training topics. For new topics, MoWRAM can ask support from the AIB and IFAD to support in terms of sharing training material, references, and assist in training facilitation, if possible, to provided MoWRAM PMUs with practical, hands-on experience at the first stage of project implementation, particularly soon after project effectiveness.

8. ESCMF IMPLEMENTATION BUDGET

227 The roles and responsibilities of each organization have been clearly outlined, with MOWRAM responsible for overall supervision and guidance, and the DFWUC responsible for preparing the annual work plan and budgets, initiating, and coordinating communication, coordinating with the Ministry of Agriculture, Forestry and Fisheries (MAFF) on agriculture support activities, and implementing social and environmental safeguards, among other tasks. The PDWRAM will assist the PMU in disseminating information and coordinating with the Ministry of Economy and Finance-General Department of Resettlement (MEF-GDR) to implement the resettlement plan, among other tasks.

228 The E&S performance will be included in the subproject and overall project progress reports. The two safeguards specialists with assistance from the CSC/field engineers (where relevant), will monitor and report on the E&S performance of the project. The safeguards specialists in the PPMUs will submit E&S performance reports at the subproject level to the CPMU on a monthly basis.

229 The ESCMF process and requirements will be incorporated into the Project Implementation Manual (PIM) and the PMU will provide training to ensure that the subproject owners (PMUs) understand them and will supervise and monitor the ESCMF implementation periodically. The E&S section in the POM will also refer to the ESCMF and related safeguards documents, as needed.

230 Monitoring and evaluation will be a crucial aspect of the project's success, with engagement at the FWUC level monitoring and reporting to ensure capacity is being increased in time to realize the significant benefits expected upon completion of construction. Material effectiveness and quality of design will also be monitored and evaluated to ensure the scheme is delivered to a standard consistent with at least a 25-year asset life.

231 The following ESCMF implementation costs include two safeguards' specialists in the PMU, Their responsible include: (a) preparation of E&S documents of subprojects, including consultation with local authorities and communities; (b) supervision, monitoring, and training workshops on E&S issues; (c) implementation and monitoring of the ESCMPs, SEP, IP Plan, and Gender Action Plan. (with the support of the project's Monitoring & Evaluation Specialist); and (d) ensuring contractors implement their respective Environmental Code of Practice and Codes of Conduct for Gender Based Violence (GBV) and Violence Against Children (VAC) and any site-specific measures. The budget also includes the social economic survey including the census for the resettlement plan. A budget for an Independent E&S Monitoring Consultant for an estimated 6 year construction period for the 6 schemes.

232 MoWRAM will appoint at least one Environmental Specialist, one Social Specialist, and one GRM Focal Point (hereinafter ESOs) for full time support for the project. The ESOs of MoWRAM will be instrumental in ensuring the environmental and social performance of the project. The ESOs, who are supported by Design and Supervision consultants and E&S consultants, will be responsible for ensuring effective environmental and social management for all project activities. The ESOs, Design and Supervision consultants and E&S consultants will work together as a team in which ESOs play the lead role in E&S monitoring for the whole project. In particular, ESOs will review all related project and E&S documents which are prepared by E&S consultants. Where necessary, ESO will conduct site visits, interview contractor, construction supervisors, workers, provincial-level government staff of MoWRAM, local authorities and local communities to collect necessary E&S information for the purpose of internal monitoring. The ESO will monitor Contractors' compliance with Construction-ESCMP and visit each subproject location at least once a month during construction. Upon completion of each site visit, the MoWRAM'S ESOs should prepare a Monitoring Report reflecting main issues found, resolution arrangements and timing for the resolution.

The **ESOs** will be responsible for:

- Implementing and monitoring performance of environment and social mitigation measures, including health and safety;

- Conducting screening and scoping on environment and social impacts, including screening for land acquisition impacts based on the guidance in the RPF and presence of Indigenous Peoples based on the guidance in the IPPF;
- Conducting trainings on health, safety, gender, SEA/SH, VAC, labor rights, HIV/AIDS, STDs, Covid-19 and the grievance redress mechanism to project communities, and monitoring contractor's training for their workers on Workers' Code of Conduct which covers SEA/SH/VAC, HIV/AIDS, STDs, and COVID-19 and the workers' grievance redress mechanism;
- Monitoring environmental and social activities of the project, in particular the implementation of the ESCMPs for subprojects, and any other relevant project documents such as RP and IPP;
- Monitor, including ensuring effective functioning of project's Grievance Redress Mechanism and solve grievances submitted to the PMUs level;
- Leading all stakeholder engagement activities, including information disclosure, consultations, reporting back to stakeholders, according to the provisions in the SEP;
- Working closely with Provincial Department of Water Resource and Meteorology, General Department of Resettlement, and other line ministries and/or relevant departments as necessary;
- Prepare monthly reports on E&S implementation and submit to the PM and PD.

E&S Consultants

233 The E&S consultants are responsible for assisting the ESO in monitoring and reporting on the safeguard implementation performed by the contractors.

- Develop screening checklist to assess risks and potential environmental and social impacts for each subproject;
- Take lead in building capacity for the project (based on list of potential training topics, including periodic provision of on-the-job training to contractors, ESO and PMUs on the implementation and management of E&S risks and impact at subproject level;
- Review C-ESCMP and ensure C-ESCMP is consistent and cover all risks and potential impacts identified in site-specific ESCMP, particularly risks related to OHS, CHS, SEA/SH/VAC taking into account local knowledge and experience in prevention and management of these risks.
- Ensure C-ESCMP have actionable plan to addressed identified risks and potential impacts, including allocation of resources to implement fully such actions.
- Make recommendation for improvement before PMU's and PMU's DISS Consultant's approval of C-ESCMP;
- Conduct site visit to construction sites and worker camp and make above assessment as part of monitoring and reporting responsibility;
- Develop E&S monitoring checklist and reporting template;
- Participate and support ESO in monthly safeguard monitoring and reporting;

234 The Government of Cambodia and AIIB, IFAD and GCF will co-finance the ESCMF implementation budget, except for costs related to all aspects of land acquisition, resettlement, and livelihood restoration. When needed, qualified national (individual or firm) consultants for capacity building and training on ESCMF implementation and the concepts of the AIIB's ESF, IFAD's SECAP and GCF's ES Policy will be provided. Budget for trainings and capacity building are mainstreamed into the project budget across project outputs/components, so are not listed explicitly in the ESCMF implementation budget. Likewise, the budget for preparation of the Biodiversity Impact Assessment and related Biodiversity Management Plan, if any, are not listed in the ESCMF implementation budget, as they have already been contracted by MOWRAM as part of the ESCIA.

235 Costs related to staffing, implementation, and monitoring of the ESCMF, as well as costs more broadly focused on safeguards are built into existing project activities/components, can be found in Table 8-1.

Table 8-1: Estimated ESCMF Implementation Cost

Line Item	Estimated cost (USD)	Remarks
Environment & Climate Safeguards Specialist	USD 240,000 (60 months at USD 4000 per month) per PMU	The PMU will be responsible for management of this budget.
Gender & Social Safeguards Specialist	USD 240,000 (60 months at USD 4000 per month) per PMU	
GRM Focal Point	USD 240,000 (60 months at USD 4000 per month) per PMU	
Socioeconomic and census survey for Resettlement Plan 840 ha impacted (private & public) with estimate of 10 households per ha	USD 250,000	
Independent E&S Monitoring Consultant (Estimated 6 year project implementation period)	USD 500,00	
TOTAL	USD 1,470,000	

9. GRIEVANCE REDRESS MECHANISM (GRM)

236 As part of environmental and social policies of the AIIB, IFAD, and GCF, the Lead Agency is required to establish and implement a GRM to respond to concerns and grievances of project-affected parties related to the E&S performance of the project/subprojects in a timely manner. The GRM may include: (a) different ways in which users can submit their grievances, including submission in person, by phone, text messages, mail, email or via a web site; (b) a log where grievances are registered in writing and maintained in a database; (c) publicly advertised procedures, setting out the length of time users can be expected to wait for acknowledgement, response, and resolution of their grievances; (d) transparency about the grievance procedures, governing structure, and decision makers; and (e) an appeals process (including the natural judiciary) to which unsatisfied grievances may be referred when resolution of grievance has not been achieved. The project/subject owner may provide mediation as an option where users are not satisfied with the project's resolution. Project/subproject owners must establish and implement the project GRM to receive and facilitate resolution of such concerns and grievances. As best practice, this ESCMF stipulates that contracted workers will have access to the project GRM to also raise workplace-related concerns. Those workers will be informed of the GRM upon their recruitment, as well as the measures put in place to protect them against any reprisal for its use.

237 As part of overall implementation of the subproject, the GRM will be established by the implementing agencies. The GRM identifies procedures, responsible persons, and contact information; will be readily accessible for the public; and will handle grievances and resolve them at the lowest level required and as quickly as possible. The GRM provides the framework within which complaints about environmental and safety issues can be handled, grievances can be addressed, and disputes can be settled quickly. The GRM will be in place before the subproject activities commence.

238 General Process: Complaints and claims through the project GRM can be lodged verbally, in writing, or by telephone/email. On receipt of a complaint, or project representative will register the complaint in the Complaints File and maintain a Log of Events pertaining to the complaint, until its resolution. Information to be recorded in the Complaints Log will include:

- The date and time of the complaint;
- The name, address and contact details of the complainant;
- A short description of the issue of complaint;
- Actions taken to address the complaint, including persons contacted and findings of each step in the complaint redress process;
- The dates and times when the complainant is contacted during the redress process;
- The final resolution of the complaint;
- The date, time and manner in which the complainant was informed thereof; and
- The complainant's signature when resolution has been obtained.

9.1 Objectives of the Project GRMs

239 The objective of the GRM is to provide affected persons with redress procedures that can be conveniently used to raise a project related concern or grievance. The GRM guides how a complaint can be lodged, including forms and channels through which a complaint can be submitted. To facilitate the grievance resolution process, grievances received will be acknowledged in writing and solved within a specified timeframe. During the resolution process, where necessary, dialogue will be held with aggrieved person for mutual understanding and effective resolution. Once a complaint is resolved, the aggrieved person will be notified of the resolution results.

240 The GRM has sequential steps that aggrieved person can use. If the aggrieved person is not satisfactory with the grievance resolution result, or if their complaint is not resolved within the timeframe specified for a particular step, aggrieved person can move on to the next step which is higher in resolution hierarchy. The project has an appeal process where complainant can resort if they

are not satisfied with a resolution decision at a particular step, or their complaints are not resolved within a specified timeframe.

9.2 Summary of national legislation related to grievance and complaint

241 The RGC has various laws and sub-decrees that have been in place to guide the implementation of the complaint resolution process. These documents specify the right of the complainants as well as the responsibilities of concerned governmental agencies as to complaint resolution. Relevant legal documents include:

- Law on Expropriation (dated 26 February 2010);
- Labor Law (dated 13 March 1997, amended on 20 July 2007 and 26 June 2018);
- Law on Prevention of Domestic Violence and Protection of Victims (dated 24 October 2005);
- Sub-decree No. 22 ANK/BK (2018) on Standard Operating Procedures for Land Acquisition and Involuntary Resettlement for Externally Financed Projects in Cambodia. Guidelines for Grievance Redress Mechanism (Appendix 8);
- Law on Administrative Management of Capital, Provinces, Municipalities, Districts and Khans (dated 22 May 2008) – Section 6 on Solution of Local Conflicts;
- Sub-decree No. 22 (25 March 2002) on Decentralization of Roles, Functions, and Power to Commune Councils (Article 61: duty to promote the role of conciliating disputes between citizens);
- Sub decree No 47 ANK.BK (31 May 2002) on Organization and Functioning of the Cadastral Commission (Chapter 4 – District/Khan Level Conciliation).

9.3 Principles of the Project GRMs

242 Under CAISAR, the following principles will be applied:

- **Channels.** Different channels are established to enable affected person to submit their grievances, including submission to village committee, as well as district and provincial levels.
- **Forms.** Grievances can be submitted in writing and verbally, and either directly by the affected households, or by a person delegated by the complainant.
- **Complainant can delegate a representative who acts on their behalf.** A person lodging a grievance can ask assistance from their family or from individual to act as their representative.
- **Disclosure.** GRM procedures are disclosed in public domain (e.g., websites of PMU, public notice board at village hall, and in front of substation).
- **Documentation.** A grievance logbook will be maintained at substation (subproject level) and at PMU level (through PMU GRM focal point).
- **Transparency.** Grievance procedures include steps, time frame for grievance resolution for each step, notification to affected person, how decision is made.
- **Acknowledgement.** The unit in charge of complaint resolution will notify complainant upon complaint receipt and will initiate the complaint resolution process.
- **Appeal.** If the agency in charge does not resolve a grievance in a manner that is satisfactory to the affected person, a multistakeholder committee will be established (ad-hoc) to resolve the dismissed grievance – as an alternative for affected person going to court.
- **Monitoring.** All grievances received are recorded by PMU and relevant substations, and are processed/resolved in a given timeframe, and are monitored by PMU GRM focal point.
- **Time-limit.** Time-limit is specified for each step in the grievance resolution process.
- **Complainants bear no costs.** Complaint resolution is free of charge to aggrieved person. However, if the complaints bring their case to court, they will bear the costs associated with their lawsuit.
- **Any grievance concerning urgent health and safety issues** shall be resolved immediately.

243 The project has in place complaint handling procedures for three types of potential grievances, including grievances related to 1) land acquisition, 2) labor and working conditions, and 3) sexual exploitation and abuse and sexual harassment (SEA/SH/GBV/GBV), and 3) general complaints. These procedures are established based on the above GRM principles and are in accordance with pertinent national legislation. The GRM for complaints related to land acquisition is provided in the project's Resettlement and Policy Framework (RPF) and that for IPs is provided in the project's IPPF. Summary for the above four procedures is provided below:

9.4 Project's Redress Procedures

244 Under this project, to facilitate the grievance redress, the informal and formal steps are combined for convenient use of affected people, as follows:

9.4.1 Redress Procedure for Complaints related to Land Acquisition

- **Step 1 – Commune/Sangkat level.** APs will seek assistance from commune/Sangkat chief or community elderlies who will discuss with the leader of the PRSC-WG to find a solution. Verbal grievance can be provided to the commune/Sangkat chief or community elderlies. So, no written complaint is required. It is noted that even if the complaint is made verbally, the complaint will be registered in project's logbook, including resolution process and result for such verbal grievance for monitoring purpose. Upon receipt of the verbal complaint, the PRSC-WG will consult with the IRC-WG to ensure the complaint is addressed timely. If the grievance is not resolved to the satisfaction of the AP, or if the AP prefers, s/he may lodge their complaint through the formal route which includes the steps below.
- **Step 2 – District level.** AH can lodge a written complaint to the Head of the District Office (where the subproject is located). The AH can bring a community elderly or their representative to discuss their grievance at the District Office. A conciliation meeting shall be held and a decision be made within 15 working days from the date of complaint is received by the District Office. If the complaint is resolved to the satisfaction of the AH, the IRC-WG will inform GDR's Department of Internal Monitoring and Data Management (DIMDM) who will review and seek the approval of the Director General of GDR for appropriate remedial action. GDR will inform the AF of the decision/ remedial action within 15 working days from the receipt of the grievance by the District Office. If the complaint is rejected at this step, District Office will inform the AH of the rejection in writing. If the complainant is not satisfied with the decision/resolution result, s/he can proceed to step 3 (below).
- **Step 3 – GDR level.** The complainant who is not satisfied with proposed resolution from Step 2 shall lodge a written complaint to the GDR for resolution. The GDR, through its DIMDM, will carry out a holistic review of the complaint and submit a report on its findings with the relevant recommendations, if any, to the Director General of GDR for review and decision. GDR may conduct a field visit to meet the complaint and the IRC-WG to gather relevant information. The final report must be completed within 30 working days from the date of receipt of the complaint by GDR for submission to the Director General of GDR who will make a final decision within 5 working days of receipt of the final report. In the event that the subject matter requires a policy level intervention, it will be referred to the IRC for a decision which may require that an additional 10 working days be extended from the original deadline for final decision.
- **Step 4 – Provincial level.** AH will submit a written complaint to the PGRC through the Provincial Governor's Office. The complainant or a representative will be given an opportunity to present its case during a meeting and the PGRC may consider any compelling and special circumstances of the AH to inform their decision. The GDR will send a representative, as a non-voting member, to provide an explanation to the rejection of the complaint at Step 3 with the GDR. The decision of the PGRC must be made on a consensus basis and will be final and binding except when the matter relates to government's policy. Decisions related to government's policy matters on land acquisition and resettlement are decided by the IRC. The PGRC will have 40 working days from the date of receipt of the complaint to reach a final decision. The decision of the PGRC will be sent to the IRC (through the GDR) for endorsement before any remedial action is taken.
There are no fees or charges levied on the AH for their lodgment of complaint and for complaint resolution for the above 4 steps.
- **Step 5 – Court of Law.** If the aggrieved person prefers filing a lawsuit at the

Provincial/Municipal Courts, as applicable, to seek a resolution, AP can do so but will bear cost related to the lawsuit as per the Expropriation Law. When the case is brought to a Court

of Law, there is no involvement of the GDR, PRSC or IRC-WG unless there is a judicial order from the competent courts.

9.4.2 **Redress Procedure for Complaints related to Labor and Working Conditions**

245 Project workers can lodge their grievance/complaint as follows:

- **Step 1 – Employer Level (Contractor and Subcontractor).** Aggrieved person (AP) can submit their grievance to their Employer who serves as the first focal point for receiving and resolving grievance. Grievance can be lodged verbally or in writing, in person or by phone, text message, mail or email (anonymous complaint is accepted). The Employer involved will resolve the case no later than 15 working days. Once resolved and the AP is satisfactory, the Employer will report the case, including resolution process and results, to the SEO of the MOWRAM for information and record. If the AP is not satisfied with the resolution of their Employer, the Employer will refer the AP to the SEO of MOWRAM, if needed and inform the AP of this referral. It is noted that if a complaint concerns the safety and health of one or several individuals, such complaint shall be resolved as soon as possible – depending on the nature and urgency of the grievance.
- **Step 2 – PMU level.** MOWRAM SEO will resolve the complaint referred to by the Employer (Step 1) and acknowledge receipt of the AP's complaints within two weeks from the date of complaint receipt. If the SEO of MOWRAM cannot resolve the complaint, the SEO Team will consult with the Project Manager/Director for resolution. The SEO of the MOWRAM will inform the AP (in writing) of the PMU's resolution result within 30 days from the date of complaint receipt. If the AP is not satisfied with the resolution result proposed by PMU, PMU will refer the case to the Project Steering Committee of the project and shall inform the AP (in writing) of this referral.
- **Step 3 – Project Steering Committee level.** At this level, the case will be resolved no later than 21 days. The AP will be informed of the resolution decision in writing. In case the grievance has not been solved within the specified timeframe, or the AP does not agree with the proposed resolution, the AP can approach the Labor Inspector of his/her province or municipality.
- **Step 4 – Court of Law.** If the AP is not satisfied with the resolution proposed above, a multistakeholder committee will be established (ad-hoc) to resolve the dismissed grievance – as an alternative for affected person going to court. If the grievance could not be resolved satisfactorily by the multistakeholder committee, the affected person may resort to the court of law. The cost associated with the lawsuit shall be borne by the AP. The decision of the Court will be final.

9.4.3 **Redress Procedure for Complaints related to SEA/SH/GBV**

246 Under the project, the GRM for SEA/SH/GBV mainly serves to: (i) refer complainants to a local GBV service provider; and (ii) record resolution of the complaint. In line with the above, the following principles apply so as to recognize SEA/SH/GBV victim as principal decision makers in their own care, and treat them with agency, dignity and respect for their needs and wishes:

- **Multiple channels** are in place for easy access and lodge complaints.
- **SEA/SH/GBV survivors will be referred to a local GBV service provider** for immediate support if they make a complaint directly to PMU.
- **Confidentiality of survivors is protected.** GM operator (at PMU and local GBV service providers) will keep confidential for SEA/SH/GBV allegation report.
- **No identifiable information on the survivor shall be collected and stored** in Project Grievance Logbook.
- **Costs of operating the SEA/SH/GBV GRM will be covered by the project.**

247 It is noted that under this project, GBV service provider will be engaged for subprojects that are rated "High" or "Substantial" for SEA/SH/GBV risks – based on SEA/SH/GBV risk assessment as part of site-specific ESMP. All sub-projects will identify GBV service providers, regardless of their SEA/SH/GBV risk rating and SEA/SH/GBV survivors in any sub-project will have access to GBV service provides.

The following channels can be used to submit a grievance related to SEA/SH/GBV:

+ **Channel 1** – AP who believe the SEA/SH/GBV incidence is related to project workers can follow

steps outlined in Section 6.4.2 (above) to lodge a SEA/SH/GBV complaint.

+ Channel 2 – Alternatively, AP can lodge their complaint, verbally or in writing, to the GRM's Focal Point within the SEO of MOWRAM for advice and resolution (contact of GRM Focal Point is provided in Section 5.1 (Resources)).

+ Channel 3 – If AP wants to bring the case to the Court of Law, AP can follow steps below for prosecution. Prosecution related to SEA/SH/GBV is administered under the Criminal Code and the Code of Criminal Procedure and is as follows:

- **Step 1 – Judicial Police.** SEA/SH/GBV victim or a representative can submit their grievance to a local Judicial Police (JP) Officer. JPs include a) Commune/ Sangkat Chief, b) Commune/ Sangkat/ District/ Provincial/ National Police, and c) District/ Provincial/ National Military Police. The JP is responsible for receiving, recording complaints, and may conduct preliminary investigations to identify and arrest the perpetrator. The JP will also collect evidence to support the prosecutors. If the SEA/SH/GBV happens at home and/or falls under the domain of domestic violence (as per Law on the Prevention of Domestic Violence and Protection of Victims), the SEA/SH/GBV survivor may seek support from a local qualified Judiciary Police Officer (appointed by the Ministry of Women's Affairs) who can act as a complaining party on behalf of the SEA/SH/GBV survivor¹⁵.
- **Step 2 – Prosecutor.** Upon receiving the completed written record from the JP, the prosecutor can decide on if the prosecutor will hold a file without processing it further or conduct proceedings against the perpetrator. The prosecutor may bring the case to the Court of Law and present the evidence in Court hearings.
- **Step 3 – Investigation by Judge.** During this step, the investigating Judge will conduct interrogation of the charged person and perform other required investigation procedure.
- **Step 4 – Hearing.** After issuing an order of indictment, the investigating Judge will submit the case to the trial court president who shall arrange a date for the trial. The decision of the Court on SEA/SH/GBV resolution is final.

In addition to the above channels, aggrieved person could also use GCF's independent redress mechanism. The affected person(s) can authorise their government or representative to file and pursue the complaint on their behalf.

- Sending it by mail or email;
- Sending a voice or video recording;
- Filling out the online complaints form at this link:

<https://gcf.i-sight.com/external/case/new/group=Complaint>

A complaint can be filed in English, or in the local language of the complainant. Where possible, a translation should be provided in English. Otherwise, the IRM will attempt to have the complaint translated and respond in the language of the complainant.

The IRM will provide confidentiality upon receiving a complaint if requested to do so by the complainant. This includes the names and identities of complainants and any designated representatives. Where disclosure may be required to address the complaint, the IRM will consult with the complainant prior to disclosing any confidential information.

9.4.4 Redress Procedure for General Complaints

248 In case individuals, households, or communities are affected by any other aspects, for instance, environmental impacts such as increased dust, noise, or lack of safety measures that increase risks of traffic accident to road users or to local EM, various channels will be established for convenient use by affected parties, including IPs. These include:

- **PMU GRM focal point's telephone** (See SEP - Section 5.1 – Resources).
- **Local EM leaders** (in case affected individual/households are EM)
- **Contractor's hotline:** to report cases that they think contractors can solve timely (contact detail of Contractors will be posted at construction sites, and distributed to IPs (through Subproject Information Booklet) during consultation, and post at public billboard of Commune/Sangkat offices, pagodas, etc.
- **Commune/Sangkat offices**

9.5 Registration of Project Grievance

249 The SEO. Managers within MOWRAM is responsible to establishing and maintaining the

project grievance logbook (PGL). The PGL will be established by the SEO to record all concerns/ grievance that are submitted by project stakeholders during project implementation. In case there is serious complaint, the World Bank should be notified of these complaints within 24 hours of complaint receipt (See Annex 3 of SEP for Guidance for establishing and maintaining Project Grievance Logbook).

¹⁵ In 2007, Inter-Ministerial Prakas No. 64 was issued by the Ministry of Women's Affairs (MoWA) and the Ministry of Justice (MoJ) appointing MoWA officials who have legal qualifications to be officials of the MoWA Judicial Police. The roles and authority of the JPO under MoWA is defined in the MoWA's Prakas No. 072 KKN/BS (2007) and is as follows: (1) act as a plaintiff representing the victim (2) prepare reports and records (3) monitor and follow up on relevant investigations (4) follow up on Court's procedures (decisions and convictions). In addition, Prakas of the Ministry of the Interior (No. 3840, 2020) on Establishment and Functioning of the Commune/ Sangkat Committee for Women and Children, has defined the roles and responsibilities of these Committees in prevention, mitigation and collaboration with juridical agencies to prevent, resolve cases related to domestic violence, sexual abuses, sexual harassment, human trafficking (such as exportations of women and children in commune/ sangkat for sexual exploitation).

250 **The GRM is an integral project management element** that intends to seek feedback from beneficiaries and resolve of complaints on project activities and performance. The GRMs for the project are based on IAAB, IFAD, UN, and GCF requirements and, most importantly, national requirements for solving potential problems between project owners and local residents/persons affected by the subproject(s).

10. STAKEHOLDER CONSULTATION AND DISCLOSURE

10.1 Consultation Requirements

251 AIIB, IFAD and GCF require that consultations be held with the project affected peoples, local communities, vulnerable persons/ethnic minorities, and other relevant stakeholders. The consultations should provide information on the following aspects: a) purpose of the project; b) results of the environmental and social assessment; and c) presentation of the complementary studies required, in any instances where they apply. This ESCMF has been prepared through a detailed consultative process at both the field and central level, and consultations findings may also be used for subsequent safeguards documents.

252 Consultation through community outreach during project implementation is good practice to ensure that the potential adverse impacts and concerns are properly addressed during project construction and operation. Consultation with affected populations and ethnic minorities is required when the activities involve physical relocation, land acquisition, and ethnic minorities.

10.2 Summary of Consultation Process during Project Preparation

253 Public consultation is a key component of CAISAR and it was pivotal in preparation of the following documents:

- Environmental and Social Management Framework (ESCMF)
- Land Acquisition & Resettlement Planning Framework (LARPF)
- Indigenous Peoples Planning Framework (IPPF)
- Gender Assessment & Social Inclusion Plan
- Stakeholder Engagement Plan (SEP), and
- Environmental, Social, Climate Assessment report (ESCA)

10.2.1 Initial Stakeholder Consultation Results

254 A number of missions and stakeholder engagement meetings have been held which are all part of the process of informing stakeholders about the proposed project, getting understanding and acceptance of the project, and getting input to further optimize the design and implementation of the project.

10.2.2 Missions 1 and 2

255 A two-stage joint mission was conducted by the Asian Infrastructure Investment Bank (AIIB), the International Fund for Agricultural Development (IFAD) and Ministry of Water Resources and Metrology (MoWRAM) for design and review of progress on the Climate Adaptive Irrigation and Sustainable Agriculture for Resilience (CAISAR) Project (the Project) from 11 to 24 December 2022¹ and 9 to 19 January 2023.²

256 During the mission, discussions were held with key stakeholders in Phnom Penh and field visits to four provinces (Pursat, Kampong Chhnang, Kampong Speu, and Kandal province) were conducted. Mission members visited all the key points of the irrigation areas guided by the Secretary of State His Excellency Chan Sinath and the directors of the Provincial Water Resource Management (PDWRAM). Districts and commune administrations, farmers and agribusiness entrepreneurs were met to determine and reach agreement on the directions and focus of the Project design and to review progress to date.

257 The objectives of the mission were (a) to check the requirements at the Project sites and review preparation progress, (b) to prepare all necessary information, studies and relevant documentation necessary for completing the Feasibility Study (FS), Green Climate Fund (GCF) Project Concept Note (CN) and GCF's Full Funding Proposal package, and (c) to define and

check the key studies required for the feasibility study and carry out the relevant consultations for the design mission.

10.2.3 *Mission 3*

258 A third field mission was conducted during the period of 18-26 May 2023 to Ou Tapoung (Pursat Province), Lum Hach (Kampong Chhnang Province) and Krang Ponley (Kampong Pseu, Kandal Province). The objectives of this mission were to: 1. Conduct discussions with provincial agencies with respect to planned projects and possible issues, and 2. Better understand the irrigation and flood control schemes as well as the smart irrigation needs; 3. Investigate the potential environmental and social issues related to the planned project schemes; and 4. To discuss appropriate environmental, social and climate safeguard measures suitable for the project (Annex 12).

10.2.4 *Ou Tapoung Feasibility Study Consultations*

During the preparation of the Ou Tapoung Feasibility Study, several meetings were held with FWUC commune representatives. These included:

- Meeting with Village Leaders from the Ou Ta Paong tail-end area, which included the following Villages of Ou Ta Paong Commune:
 - 1) Prey Yeang
 - 2) Robors Reang
 - 3) Chamkar Muol
 - 4) Chamkar Khloy
 - 5) Ou Tapoang
 - 6) Anglong Kray
 - 7) Srash Mkak
 - 8) Bot Kokichas
 - 9) Sdok Khlor
 - 10) Chhouk Krobao
 - 11) Somroung Pok
 - 12) Psar Angdoeurk
 - 13) Ornga Mean,
 - 14) Srash Ron
 - 15) Bot Kokithmey
 - 16) Ta nai
 - 17) Ou Bot
 - 18) Tuol Rokeang
- Meeting with FWUC of Kampang Irrigation Scheme on Svay Doun Kaev River
- Meeting with Bakan District Chairman
- Meeting with FWUC Damnak Ampil
- Meeting with FWUC Krouch Saeuch

PDWRAM explained that most of the systems in the DAC command area have at one or another time in the past 15 years undergone a rehabilitation. OTP is sort of a 'left-over'. PDWRAM explained that the rehabilitation of the OTP system is included in the current Five-Year Plan (PDWRAM). PDWRAM envisages that the OTP command area will receive its irrigation water via a gate on Damnak Ampil Canal (DAC).¹⁶ An existing branch of Damnak Ampil Canal (DAC) is destined as the most logic route for delivering water to OTP River.

The feasibility study is to recommend options for improvement of the irrigation services in the area between the rivers Kambot and Svay Doun Khay. The work to be undertaken includes rehabilitation, upgrading, and extension of existing infrastructure systems for irrigation, drainage, flood protection, water storage, and transport.

10.2.5 First Round of Stakeholder Engagement Meetings

259 The first round of stakeholder meetings were held during the 26th to 30th June 2023 at commune and provincial levels in all three subprojects and six irrigation schemes. There were potential affected people and local authorities in the subproject areas and command areas that attended the consultation meetings at commune level, while representatives from provincial administration and provincial departments attended the public consultation meeting at provincial level.

260 The SECAP team provided a presentation at each meeting that included the following topics:

- Background of the CAISAR project
- Purpose of the Public Consultation
- Technical scope of each scheme
- Anticipated environmental and social risks and impacts
- Environmental and social safeguards documents to be prepared
- Grievance redress mechanism

261 Key comments and concerns raised by meeting participants included:

- Is there a **compensation** program for affected people?
- How can **complaints** be lodged if there is an issue?
- Participants generally expressed support for the project to be implemented soon

262 The key recommendations from the first round of stakeholder meetings include:

- Brambei Mom (Kampong Speu): there is a community forestry of 800ha. Wild animals such as wild boar, peafowl, tiger cat, banteng, gaur and so on.
- UXO: still found in some areas.
- Kampong Chhnang Department of Agriculture: suggested further assessment for the reservoir of Lum Hach.
- Reservoir of Lum Hach was reserved for irrigation purpose and it is state land. However, local people encroach and occupy the land inside the Lum Hach reservoir over the past years.
- Provincial Department of Health: recommended to ensure the health and safety of workers in the project (e.g., disease transmission and medical staff should standby at each construction site).
- Provincial Department of Education: should avoid adverse impacts on schools and students.

10.3 Consultation to be conducted during Project Implementation

263 During project implementation, consultation with project stakeholders will be maintained, and will be carried out in accordance with the stand-alone Stakeholder Engagement Plan (SEP). The SEP identified stakeholders that are potentially affected by the six sub-schemes – both stakeholders positively affected (project beneficiaries) and those who are adversely affected (e.g. those whose land are acquired to facilitate rehabilitation of the irrigation system and rural roads). The SEP also identified, *inter alia*, project stakeholder who are vulnerable/disadvantaged and how consultation with project stakeholders, including vulnerable/disadvantaged people, are consulted to ensure their feedback on project implementation and E&S risks and potential impacts are incorporated into project design and measures to avoid or minimize the adverse impacts where enhanced intended positive impacts. The SEP also sets forth different Grievance Redress Procedures that enable the project to receive timely feedbacks and grievance from project affected people and resolve the grievance timely and effectively. The SEP also makes arrangements about costs and budget that are essential for anticipated stakeholder engagement exercises that centers around the design, implementation, monitoring of E&S risks and impacts arising from implementation of the six sub-schemes. It also sets out management functions and responsibilities to ensure stakeholder engagement is meaningful and project stakeholders are reinteratively engaged during project cycles – at sub-scheme level.

10.4 Information Disclosure

264 **Disclosure during project preparation:** During project preparation, ESCMF (which include LARPF, IPPF), SEP GSAIP, ESCIA (project level), and ESMCPs prepared for Ou Ta Paong, Krapeau

Trom and Yutasas have been disclosed on 25 December 2024 on the website of MOWRAM. The documents, including English version (full text) and Khmer version (executive summary) was disclosed on at https://doc.nwrddmc-mowram.gov.kh/public/doc_aiib. The Khmer executive summary has been disclosed at communes where three sub-schemes of Ou Ta Paong, Krapeau Trom and Yutasas will be implemented. English

265 Documents disclosed locally (commune level) are displayed at commune halls - in an accessible place and in a form and language (Khmer) that is understandable to key stakeholders. In the first year of project implementation, ESMCPs to be prepared for three remaining sub-schemes (Lum Hach, Brambei Mom, and Steung Krang Bat) will be prepared and disclosed in a similar manner, and in advance of the approval decision.

266 The documents (full English version) has been disclosed on AIIB's website since December 2024 (<https://www.aiib.org/en/projects/details/2023/proposed/Cambodia-Climate-Adaptive-Irrigation-and-Sustainable-Agriculture-for-Resilience-Project-CAISAR.html>) and IFAD within February 2025.

267 The reports will be submitted to GCF and made available to GCF via electronic links in both the AE and the GCF's website, as well as in locations convenient to affected peoples in consonance with requirements of GCF Information Disclosure Policy, and Section 7.1 of (Information Disclosure) of GCF Environmental and Social Policy.

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ANNEX 1: EXCLUSION LIST

Any sub-project that meets one or more of the following screening criteria will not be approved for financing under the project:

- Rural roads with total length of more than 10 kilometres per scheme;
- Irrigation canals with base width more than 10m; sluices with total drainage width more than 10m; irrigation embankments to protect cultivation areas of more than 500 hectares; large dams (higher than 15m) or any dams resulting in a high-risk rating (in terms of environment, social, and/or dam safety).
- Reservoirs with capacity of more than 3 million cubic meters;
- Infrastructure schemes that require physical resettlement of more than 20 people per subproject area or affect more than 10 percent (in value term) of assets of an individual household, or adversely impacts security of tenure of EM households.
- Any sub-project that physically displaces EM or dilutes/changes their security of tenure.
- Relocation and/or demolition of any permanent houses or business.
- Use of the project as an incentive and/or a tool to support and/or implement involuntary resettlement of local people and village consolidation.
- Land appropriation
- New settlements or expansion of existing settlements.
- Activities that would likely create adverse impacts on ethnic groups/indigenous peoples within the village and/or in neighboring villages, or activities unacceptable to ethnic groups living in an ethnic homogenous village or a village of mixed ethnic composition.
- Damage or loss to cultural property, including sites having archeological (prehistoric), paleontological, historical, religious, cultural and unique natural values.
- Resources access restriction (e.g. restricted access to farming land) that could not be mitigated and will result in adverse impacts on the livelihoods of ethnic groups and disadvantage peoples.
- Purchase of banned pesticides, insecticides, herbicides and other unbanned pesticides, unbanned insecticides and unbanned herbicides and dangerous chemicals exceeding the amount required to treat efficiently the infected area. However, if pest invasion occurs, the use of small amounts of eligible and registered pesticides in Cambodia will be allowed if supplemented by additional training of farmers to ensure pesticide safe uses in line with IFAD/GCF ESS policies and procedures. Highly Hazardous Pesticides (HHP) will not be used by the project.
- Purchase of destructive farming gear and other investments detrimental to the environment.
- Unsustainable exploitation of natural resources.
- Introduction of non-native species, unless these are already present in the vicinity or known from similar settings to be non-invasive.
- Significant conversion or degradation of natural habitat or where the conservation and/or environmental gains do not clearly outweigh any potential losses.
- Production or trade in any product or activity deemed illegal under Cambodia's laws or regulations or international conventions and agreements, or subject to international bans.
- Labor and working conditions involving harmful, exploitative, involuntary or compulsory forms of labor, forced labor¹⁷, child labor¹⁸ or significant occupational health and safety issues.
- Trade in any products with businesses engaged in exploitative environmental or social behavior. Sub-activities that require full EIA will not be funded including any projects that will use or induce the use of hazardous materials (including asbestos) or any banned chemicals.

¹⁷ Forced labor means all work or service, not voluntarily performed, that is extracted from an individual under threat of force or penalty.

¹⁸ Harmful child labor means the employment of children that is economically exploitive, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health, or physical, mental, spiritual, moral, or social development.

ANNEX 2: IUCN RED LIST OF THREATENED SPECIES

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Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Crocodylus siamensis</i>	Siamese Crocodile	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
<i>Heosemys grandis</i>	Giant Asian Pond Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
<i>Heosemys annandalii</i>	Yellow-headed Temple Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
<i>Pangasianodon gigas</i>	Mekong Giant Catfish	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Pangasius sanitwongsei</i>	Giant Pangasius	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Probarbus jullieni</i>	Jullien's Golden Carp	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Batagur a nis</i>	Southern River Terrapin	REPTILIA	CR	Decreasing	Terrestrial, Marine, Freshwater
<i>Catlocarpio siamensis</i>	Giant Carp	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Datnioides pulcher</i>	Siamese Tiger Perch	ACTINOPTERYGII	CR	Decreasing	Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Heliopais personatus</i>	Masked Finfoot	AVES	CR	Decreasing	Terrestrial, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Emberiza aureola</i>	Yellow-breasted Bunting	AVES	CR	Decreasing	Terrestrial, Freshwater
<i>Pelochelys cantorii</i>	Asian Giant Softshell Turtle	REPTILIA	CR	Decreasing	Terrestrial, Marine, Freshwater
<i>Indotestudo elongata</i>	Elongated Tortoise	REPTILIA	CR	Decreasing	Terrestrial
<i>Manis javanica</i>	Sunda Pangolin	MAMMALIA	CR	Decreasing	Terrestrial
<i>Gyps bengalensis</i>	White-rumped Vulture	AVES	CR	Decreasing	Terrestrial
<i>Sarcogyps calvus</i>	Red-headed Vulture	AVES	CR	Decreasing	Terrestrial
<i>Gyps tenuirostris</i>	Slender-billed Vulture	AVES	CR	Decreasing	Terrestrial
<i>Panthera pardus ssp. delacouri</i>	Indochinese Leopard	MAMMALIA	CR	Decreasing	Terrestrial
<i>Rucervus eldii</i>	Eld's Deer	MAMMALIA	EN	Decreasing	Terrestrial, Freshwater
<i>Laubuka caeruleostigmata</i>	Flying Minnow	ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Cuora amboinensis</i>	Southeast Asian Box Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Lutra sumatrana</i>	Hairy-nosed Otter	MAMMALIA	EN	Decreasing	Terrestrial, Marine, Freshwater
<i>Siebenrockiella crassicolis</i>	Black Marsh Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
<i>Fluvitrygon oxyrinchus</i>	Marbled Whipray	CHONDRICHTHESES	EN	Decreasing	Freshwater
<i>Pangasianodon hypophthalmus</i>	Striped Catfish	ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Urogymnus polylepis</i>	Giant Freshwater Whipray	CHONDRICHTHESES	EN	Decreasing	Marine, Freshwater
<i>Asarcornis scutulata</i>	White-winged Duck	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Rynchops albigollis</i>	Indian Skimmer	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Sterna acuticauda</i>	Black-bellied Tern	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Mycteria cinerea</i>	Milky Stork	AVES	EN	Decreasing	Terrestrial, Marine, Freshwater
<i>Leptoptilos dubius</i>	Greater Adjutant	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Scleropages formosus</i>		ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Bos javanicus</i>	Banteng	MAMMALIA	EN	Decreasing	Terrestrial

Cuon alpinus	Dhole	MAMMALIA	EN	Decreasing	Terrestrial
Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Elephas maximus	Asian Elephant	MAMMALIA	EN	Decreasing	Terrestrial
Hylobates pileatus	Pileated Gibbon	MAMMALIA	EN	Decreasing	Terrestrial
Macaca fascicularis	Long-tailed Macaque	MAMMALIA	EN	Decreasing	Terrestrial
Panthera tigris	Tiger	MAMMALIA	EN	Decreasing	Terrestrial
Pteropus vampyrus	Large Flying-fox	MAMMALIA	EN	Decreasing	Terrestrial
Pterocarpus macrocarpus	Burma Padauk	MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Hopea helferi		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Shorea hypochra	White Meranti	MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Hopea ferrea		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Anisoptera costata		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Dipterocarpus intricatus		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Vatica philastreana		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
Nycticebus bengalensis	Bengal Slow Loris	MAMMALIA	EN	Decreasing	Terrestrial

Trachypithecus germaini	Indochinese Silvered Langur	MAMMALIA	EN	Decreasi ng	Terrestrial
Species Name	Common Name	Taxonomic Group	IUCN Categor y	Population Trend	Biome
Viverra megaspila	Large-spotted Civet	MAMMALIA	EN	Decreasi ng	Terrestrial
Pavo muticus	Green Peafowl	AVES	EN	Decreasi ng	Terrestrial
Tectona grandis	Teak	MAGNOLIOPSIDA	EN	Decreasi ng	Terrestrial
Calostoma insigne		AGARICOMYCETE S	EN	Decreasi ng	Terrestrial
Macaca fascicularis ssp. fascicularis	Common Long-tailed Macaque	MAMMALIA	EN	Decreasi ng	Terrestrial

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Species Name	Common Name	Taxonomic Group	IUCN Categor y	Population Trend	Biome
Croc odylu s siam ensis	Siamese Crocodile	REPTILIA	CR	Decreasi ng	Terrestrial, Freshwater
Heos emys grand is	Giant Asian Pond Turtle	REPTILIA	CR	Decreasi ng	Terrestrial, Freshwater
Heos emys anna ndalii	Yellow- headed Temple Turtle	REPTILIA	CR	Decreasi ng	Terrestrial, Freshwater
Species Name	Common Name	Taxonomic Group	IUCN Categor y	Population Trend	Biome

Crocodylus siamensis	Siamese Crocodile	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
Heosemys grandis	Giant Asian Pond Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
Heosemys annandalii	Yellow-headed Temple Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Gyps bengalensis	White-rumped Vulture	AVES	CR	Decreasing	Terrestrial
Sarcogyps calvus	Red-headed Vulture	AVES	CR	Decreasing	Terrestrial
Gyps tenuirostris	Slender-billed Vulture	AVES	CR	Decreasing	Terrestrial
Panthera pardus ssp. delacouri	Indochinese Leopard	MAMMALIA	CR	Decreasing	Terrestrial
Rucervus eldii	Eld's Deer	MAMMALIA	EN	Decreasing	Terrestrial, Freshwater
Laubuka caeruleostigmata	Flying Minnow	ACTINOPTERYGII	EN	Decreasing	Freshwater
Cuora amboinensis	Southeast Asian Box Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
Lutra sumatrana	Hairy-nosed Otter	MAMMALIA	EN	Decreasing	Terrestrial, Marine, Freshwater

Siebenrockiella crassicolis	Black Marsh Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
Fluviogon oxyrinchus	Marbled Whipray	CHONDRICHTHEYS	EN	Decreasing	Freshwater
Pangasianodon hypophthalmus	Striped Catfish	ACTINOPTERYGII	EN	Decreasing	Freshwater
Urogymnus polylepis	Giant Freshwater Whipray	CHONDRICHTHEYS	EN	Decreasing	Marine, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Asarcornis scutulata	White-winged Duck	AVES	EN	Decreasing	Terrestrial, Freshwater
Rynchops albigollis	Indian Skimmer	AVES	EN	Decreasing	Terrestrial, Freshwater
Sterna acuticauda	Black-bellied Tern	AVES	EN	Decreasing	Terrestrial, Freshwater
Mycteria cinerea	Milky Stork	AVES	EN	Decreasing	Terrestrial, Marine, Freshwater
Leptoptilos dubius	Greater Adjutant	AVES	EN	Decreasing	Terrestrial, Freshwater
Scleropages formosus		ACTINOPTERYGII	EN	Decreasing	Freshwater
Bos javanicus	Banteng	MAMMALIA	EN	Decreasing	Terrestrial
Cuon alpinus	Dhole	MAMMALIA	EN	Decreasing	Terrestrial

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Elephas maximus</i>	Asian Elephant	MAMMALIA	EN	Decreasing	Terrestrial
<i>Hylobates pileatus</i>	Pileated Gibbon	MAMMALIA	EN	Decreasing	Terrestrial
<i>Macaca fascicularis</i>	Long-tailed Macaque	MAMMALIA	EN	Decreasing	Terrestrial
<i>Manouria impressa</i>	Impressed Tortoise	REPTILIA	EN	Decreasing	Terrestrial
<i>Panthera tigris</i>	Tiger	MAMMALIA	EN	Decreasing	Terrestrial
<i>Pteropus vampyrus</i>	Large Flying-fox	MAMMALIA	EN	Decreasing	Terrestrial

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Pterocarpus macrocarpus</i>	Burma Padauk	MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
<i>Anisoptera costata</i>		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
<i>Dipterocarpus intricatus</i>		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial
<i>Nycticebus bengalensis</i>	Bengal Slow Loris	MAMMALIA	EN	Decreasing	Terrestrial
<i>Trachypithecus germaini</i>	Indochinese Silvered Langur	MAMMALIA	EN	Decreasing	Terrestrial

Viverra megaspila	Large-spotted Civet	MAMMALIA	EN	Decreasing	Terrestrial
Pavo muticus	Green Peafowl	AVES	EN	Decreasing	Terrestrial
Calostoma insignis		AGARICOMYCETES	EN	Decreasing	Terrestrial
Macaca fascicularis ssp. fascicularis	Common Long-tailed Macaque	MAMMALIA	EN	Decreasing	Terrestrial

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Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Crocodylus siamensis	Siamese Crocodile	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
Heosemys grandis	Giant Asian Pond Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
Heosemys annandalii	Yellow-headed Temple Turtle	REPTILIA	CR	Decreasing	Terrestrial, Freshwater
Pangasianodon gigas	Mekong Giant Catfish	ACTINOPTERYGII	CR	Decreasing	Freshwater
Pangasius sanitwongsei	Giant Pangasius	ACTINOPTERYGII	CR	Decreasing	Freshwater
Batagur orientalis	Southern River Terrapin	REPTILIA	CR	Decreasing	Terrestrial, Marine, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Catlocarpio siamensis</i>	Giant Carp	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Datnioides pulcher</i>	Siamese Tiger Perch	ACTINOPTERYGII	CR	Decreasing	Freshwater
<i>Terniopsis ubonensis</i>		MAGNOLIOPSIDA	CR	Unknown	Freshwater
<i>Heliopais personatus</i>	Masked Finfoot	AVES	CR	Decreasing	Terrestrial, Freshwater
<i>Emberiza aureola</i>	Yellow-breasted Bunting	AVES	CR	Decreasing	Terrestrial, Freshwater
<i>Indotestudo elongata</i>	Elongated Tortoise	REPTILIA	CR	Decreasing	Terrestrial
<i>Manis javanica</i>	Sunda Pangolin	MAMMALIA	CR	Decreasing	Terrestrial
<i>Aquilaria crassna</i>	Agarwood	MAGNOLIOPSIDA	CR	Decreasing	Terrestrial
<i>Houbaropsis bengalensis</i>	Bengal Florican	AVES	CR	Decreasing	Terrestrial

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Gyps bengalensis</i>	White-rumped Vulture	AVES	CR	Decreasing	Terrestrial
<i>Sarcogyps calvus</i>	Red-headed Vulture	AVES	CR	Decreasing	Terrestrial

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Gyps tenuirostris</i>	Slender-billed Vulture	AVES	CR	Decreasing	Terrestrial
<i>Panthera pardus ssp. delacouri</i>	Indochinese Leopard	MAMMALIA	CR	Decreasing	Terrestrial
<i>Laubuka caeruleostigmata</i>	Flying Minnow	ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Cuora amboinensis</i>	Southeast Asian Box Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
<i>Lutra sumatrana</i>	Hairy-nosed Otter	MAMMALIA	EN	Decreasing	Terrestrial, Marine, Freshwater
<i>Siebenrockiella crassicollis</i>	Black Marsh Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
<i>Fluvitrygon oxyrinchus</i>	Marbled Whipray	CHONDRICHTHYES	EN	Decreasing	Freshwater
<i>Cycllemys atripons</i>	Western Black-bridged Leaf Turtle	REPTILIA	EN	Decreasing	Terrestrial, Freshwater
<i>Pangasianodon hypophthalmus</i>	Striped Catfish	ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Terniopsis chanthaburiensis</i>		MAGNOLIOPSIDA	EN	Decreasing	Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Asarcornis scutulata</i>	White-winged Duck	AVES	EN	Decreasing	Terrestrial, Freshwater

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Sterna acuticauda</i>	Black-bellied Tern	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Mycteria cinerea</i>	Milky Stork	AVES	EN	Decreasing	Terrestrial, Marine, Freshwater
<i>Leptoptilos dubius</i>	Greater Adjutant	AVES	EN	Decreasing	Terrestrial, Freshwater
<i>Scleropages formosus</i>		ACTINOPTERYGII	EN	Decreasing	Freshwater
<i>Bos javanicus</i>	Banteng	MAMMALIA	EN	Decreasing	Terrestrial
<i>Cuon alpinus</i>	Dhole	MAMMALIA	EN	Decreasing	Terrestrial
<i>Elephas maximus</i>	Asian Elephant	MAMMALIA	EN	Decreasing	Terrestrial
<i>Hylobates pileatus</i>	Pileated Gibbon	MAMMALIA	EN	Decreasing	Terrestrial
<i>Macaca fascicularis</i>	Long-tailed Macaque	MAMMALIA	EN	Decreasing	Terrestrial
<i>Manouria impressa</i>	Impressed Tortoise	REPTILIA	EN	Decreasing	Terrestrial
<i>Panthera tigris</i>	Tiger	MAMMALIA	EN	Decreasing	Terrestrial
<i>Pteropus vampyrus</i>	Large Flying-fox	MAMMALIA	EN	Decreasing	Terrestrial
<i>Dipterocarpus intricatus</i>		MAGNOLIOPSIDA	EN	Decreasing	Terrestrial

Species Name	Common Name	Taxonomic Group	IUCN Category	Population Trend	Biome
<i>Nycticebus bengalensis</i>	Bengal Slow Loris	MAMMALIA	EN	Decreasing	Terrestrial
<i>Trachypithecus germaini</i>	Indochinese Silvered Langur	MAMMALIA	EN	Decreasing	Terrestrial
<i>Viverra zibetha</i>	Large-spotted Civet	MAMMALIA	EN	Decreasing	Terrestrial
<i>Philautus cardamonus</i>		AMPHIBIA	EN	Unknown	Terrestrial
<i>Pavo muticus</i>	Green Peafowl	AVES	EN	Decreasing	Terrestrial
<i>Cnemaspis neangthyi</i>	Neang Thy's Rock Gecko	REPTILIA	EN	Unknown	Terrestrial
<i>Calosoma insignis</i>		AGARICOMYCETES	EN	Decreasing	Terrestrial
<i>Macaca fascicularis</i> ssp. <i>fascicularis</i>	Common Long-tailed Macaque	MAMMALIA	EN	Decreasing	Terrestrial

ANNEX 3: TERMS OF REFERENCE FOR E&S SAFEGUARDS MONITORING CONSULTANT

The following is meant to serve as a sample Terms of Reference and should, therefore, be amended accordingly to fit the context of the CAISAR project once final decisions have been made about budget and division of tasks (e.g. whether the project's Monitoring & Evaluation (M&E) specialist will be separate from the Safeguards M&E consultant).

BACKGROUND

[Hiring unit should insert background information on the CAISAR project within the given Provincial PMU and project area here]

OBJECTIVES OF THE ASSIGNMENT

MOWRAM seeks the Consultancy Services of an experienced Individual Consultant “Environmental & Social Safeguards and Project Monitoring & Evaluation Consultant” as part of the Provincial Project Management Unit (full-time engagement). The objective of this assignment is monitoring compliance of the project activities with Environmental & Social Safeguards instruments. In addition, the Consultant will support the Project's overall M&E.

SCOPE OF WORK

Duties and Responsibilities:

The specific tasks stipulated in this ToR to be undertaken by the Environmental & Social Safeguards and Project M&E Consultant include, but are not limited to the following:

With regard to Environmental and Social Safeguards:

The Consultant will assist the Project Coordinator/Project Manager and will work closely with the Environmental & Social Safeguards staff within the Provincial PMU to handle Environmental and Social Safeguards related responsibilities. Specifically:

- Undertake site visits and on-ground review, check and document compliance with site-specific measures as presented in site-specific ESCMPs.
- Provide guidance to contactors, site supervisors, and other stakeholders on manners of implementation and documentation of compliance related to environmental mitigation and monitoring measures, as presented in site-specific ESCMPs.
- Check that all documents necessary to ensure full compliance with Environmental & Social Safeguard instruments, in particular, Environmental and Social Management Plans (ESCMPs) and Indigenous Peoples' Plans (IPPs) are prepared, regularly updated, and available to relevant stakeholders;
- Ensure that project activities, being developed as a part of the Project, are designed to include avoidance of potential social and environmental risks, as recommended in the ESCMPs and annual IP Plans already prepared;
- Provide overall Environmental and Social Management oversight during the implementation of CAISAR's activities and advise the implementation agencies in addressing the environmental issues;
- Ensure that each subproject and related activities under the project are subject to the Project's ESCMP procedures;
- Review subproject and activity plans, design, costs, and bidding documents and be involved in procurement of Civil Works and Supervision to ensure that Civil Works and Supervision contracts include provisions concerning the Environmental and Social Safeguard issues;
- Coordinate with relevant agencies for obtaining environmentally related permits, as necessary;
- Communicate with local governments, contractors, and with any Environmental, Social, Health and Safety (ESHS) Experts that may be part of the subproject supervision team in all matters related to design, implementation, documenting and reporting on environmental compliance, as indicated in site-specific ESCMPs;

- Monitor implementation of site-specific ESCMPs by the Contractors to ensure that appropriate management process and procedures are in place, that Environmental and Social Safeguards related measures are adequately addressed and to ensure that in the event of a noncompliance agreed remedial actions are applied and documented;
- Check and ensure that the regular reports are prepared and timely submitted by the Contractor as per content agreed and provide comments, as appropriate;
- Contribute to, along with the E&S Provincial PMU Specialists, preparation of semi-annual ESCMP Compliance Reports for IFAD and the GCF
- Participate in missions and technical visits by IFAD, and work closely with the IFAD SECAP Specialists and Provincial PMU E&S Specialists to ensure the Project's compliance with relevant environmental and social policies.
- Undertake other actions related to environmental and social aspects of the Project, as may be instructed by the Project Manager/Coordinator from time to time and/or the E&S Specialists in the Provincial PMU, in order to ensure full compliance of the Project with national and international environmental and social standards and legislation.

With regard to Project Monitoring & Evaluation:

The Consultant will be in charge of the Project's Monitoring & Evaluation (M&E), design the strategic and technical approach to implementing project goals within the technical framework outlined for the Results Monitoring. The Consultant will coordinate and work with other members of the Provincial PMU, particularly any staff which DARD has assigned to operate the REDD+ MIS SIS and/or Project MIS, to ensure adequate monitoring of progress against the project indicators. In addition, the Consultant will also work closely with any specialists hired to carry out Mid-Term and/or Terminal Project Monitoring & Evaluation and facilitate the gathering of information.

- Review and familiarize themselves with the Project's documents, in particular with Project Operational Manual (POM) and Monitoring Information System (MIS) already established;
- Carry out the preparation and implementation of the M&E program and keep records on achievements, breakdowns of indicators;
- Continuously monitor progress towards the project's objectives and according to agreed Performance Monitoring Indicators;
- Report in semi-annual reports on the project objectives and Results Framework updates;
- Monitor the project's implementation and evaluate outcomes and results for each Component and Subcomponent, using the MIS;
- Determine whether the inputs in the project are well utilized;
- Monitor the project's implementation against the planned activities (physical and financial), analyze reasons for delays (if any), and propose measures and solutions to overcome delays;
- Ensure that the project's activities are properly implemented as per the agreed program, and take corrective actions when necessary;
- Identify good practices and advantages within the project, recording lessons-learned for future consideration;
- Carry out the roles and responsibilities given by the Project Coordinator/Manager;
- Support the beneficiary survey and other end-of-project evaluations
- Take all necessary measures for the maintenance of the MIS to keep it operational.

QUALIFICATIONS REQUIREMENTS

The person suitable for the position of the Environmental & Social Safeguard and Project Monitoring & Evaluation Consultant should have the following qualifications:

- Master's degree, preferable in the Environmental Sciences, Environmental Engineering or equivalent professional qualifications appropriate to the Consultancy Services requested;
- A minimum of 5 (five) years of relevant experience in Environmental & Social Safeguard Monitoring;
- Knowledge of Cambodia's regulations and laws (particularly in the EIA processes) is required;
- Familiarity with the IFAD, GCF, and REDD+ Safeguard policies will be an advantage;
- Knowledge and experience in Project Monitoring & Evaluation is desirable;

- Proficiency in using computer and office software packages (word processing, spreadsheet etc.). Experience in the handling of web-based data and Management Information Systems will be an added advantage;
- Fluent written and spoken Khmer and English.

REPORTING OBLIGATIONS

The Consultant will work under the direction of and report to the CAISAR Project Manager/Coordinator within the PMU, and in close consultation with the E&S Specialists of the PMU. The Consultant will deliver monthly progress reports concerning the accomplishment of their assignments.

In addition, concerning the overall Project M&E, the Consultant shall prepare semi-annual and annual surveys on project outcomes indicators and prepare semi-annual and annual project progress reports, updating relevant parts of the Result Framework, as appropriate. This work shall be conducted in close consultation with any relevant specialists with the PMU.

CLIENT’S INPUTS

The Consultant will be based and work in the Provincial PMU office. MOWRAM, as host of the Provincial PMU, will provide the office space and equipment required to perform the tasks assigned.

TERMS OF THE ASSIGNMENT AND DURATION

- The Consultant will work on full-time basis.
- Remuneration will be paid on a monthly basis.
- The Consultant will be offered the opportunities to grow up professionally by attending relevant training events and courses during the term of the contract.
- The initial contract with the Consultant will cover one year, with a 3 month probation period, at which time the performance of Consultant shall be evaluated and extension may be made annually pending continued performance.
- Evaluation of the 3 (three) month probation period and any contract extension would be fully based on the consultant’s performance certified by the Project Coordinator/Manager and as agreed with IFAD.

ANNEX 4: CHANCE FINDS PROCEDURE

The following “*chance find*” procedures must be included in all third-party contracts (e.g. Letters of Agreement) in instances where the contracted party is assisting with project implementation and/or construction activities.

Provincial PMUs will ensure that the bidding documents and work contract for civil works contractors include clauses on chance find procedures. Specifically, the clause will stipulate that if the Contractor discovers archeological sites, historical sites, remains and objects, including graveyards and/or individual graves during project implementation, the Contractor shall:

- Stop the activities in the area of the chance find;
- Delineate the discovered site or area;
- Secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be arranged until the responsible local or provincial authorities take over;
- Notify the supervisory Safeguards Specialist within the PMU who, in turn, will notify the responsible local and provincial authorities immediately (within 24 hours or less);
- Responsible local and/or provincial authorities would oversee protecting and preserving the site before deciding on subsequent appropriate procedures. This would require a preliminary evaluation of the findings to be performed by government approved archeologists. The significance and importance of the findings should be assessed according to the various criteria relevant to cultural heritage; those include the aesthetic, historic, scientific or research, social and economic values;
- Decisions on how to handle the finding shall be taken by the responsible local and provincial authorities. This could include changes in the layout (such as when finding an irremovable remain of cultural or archeological importance) conservation, preservation, restoration and salvage;
- Implementation for the authority decision concerning the management of the finding shall be communicated in writing by relevant local authorities; and
- Project activities could resume only after permission is given from the responsible local or provincial authorities concerning safeguard of the heritage.

Note that the reporting of chance finds only occurs when an item/area/etc. of cultural significance is found, and is only carried out insofar as what is detailed above (i.e. reporting the find, reporting how the item/area will be treated moving forward). Reporting begins with the local level implementer (e.g. staff tasked to implement the project within a village) notifying the Safeguards Specialist, after which, the Safeguards Specialist guides the process according to the instructions above (e.g. notifying the relevant government authorities).

ANNEX 5: E&S CODES OF PRACTICE FOR CONSTRUCTION

Generic contract clauses are provided to assist with environmental and social management works. These clauses are general and should be modified as needed. These clauses are intended to be included as requirements in the works contract and shall remain in force throughout the contract period.

Clause on ESCMP

The Contractor is required to implement this ESCMP. The Contractor is responsible for the implementation of construction and rehabilitation activities for the sites and for implementing the impact mitigation measures in the construction phase. The Contractor's approach shall be detailed in the Contractor's Management Plan.

The Contractor shall include a suitably qualified and experienced Environmental, Occupational Health and Safety Officer (and other staff or consultants as necessary) to be specifically responsible for preparation and regular update and supervision of the ESCMP. The Environmental, Occupational Health and Safety Officer is responsible for the daily supervision and monitoring of the Contractor's implementation of the Plan and compliance with the Project ESCMP for the duration of the contract. The Contractor's approach to comply with the ESCMP shall be approved by PMU prior to the Contractor's mobilization to the site.

The Contractor will be required to report on the implementation status of the ESCMP to PMU. The damages due to the violation of the stipulations by the Contractor shall be compensated and/or restored by the Contractor at his or her own expense. Performance will be monitored by PMU and will be enforced by withholding of payments (refer to relevant clause in the bid documents).

Other Standard Clauses

Permits and Approvals

The contractor shall be responsible for ensuring that he or she has all relevant legal approvals and permits required to commence works.

Site Security

The contractor shall be responsible for maintaining security over the construction site including the protection of stored materials and equipment. In the event of severe weather, the contractor shall secure the construction site and associated equipment in such a manner as to protect the site and adjacent areas from consequential damages. This includes the management of onsite, construction materials, construction and sanitary wastes, additional strengthening of erosion control and soil stabilization systems and other conditions resulting from contractor activities which may increase the potential for damages.

Discovery of Antiquities and Cultural Heritage

If, during the execution of the activities contained in this contract, any material is discovered onsite which may be considered of historical or cultural interest, such as evidence of prior settlements, native or historical activities, evidence of any existence on a site which may be of cultural significance, all work shall stop and the supervising contracting officer shall be notified immediately and the Chance Find Procedures followed (Appendix 5). The area in which the material was discovered shall be secured, cordoned off, marked, and the evidence preserved for examination by the local archaeological or cultural authority. No item believed to be an artefact must be removed or disturbed by any of the workers. Work may resume, without penalty of prejudice to the contractor upon permission from the contracting officer with any restrictions offered to protect the site.

Worker Occupational Health and Safety

The contractor shall ensure that all workers operate within a safe environment. Sanitation facilities shall be provided for all site workers. All sanitary wastes generated as a result of project activities shall be managed in a manner approved by the contracting officer and the local authority responsible for public health. The contractor shall ensure that there are basic medical facilities on site and that there are staff trained in basic first aid. Workers must be provided with the necessary protective gear as per their specific tasks such as hard hats, overalls, gloves, goggles, boots, etc. The contractor shall

provide the contracting officer with an occupational health and safety plan for approval prior to the commencement of site activities.

The contractor must ensure that all workers operate within a safe environment. All relevant Labor and Occupational Health and Safety regulations must be adhered to ensure worker safety. Sanitary facilities must be provided for all workers on site. Appropriate posting of information within the site must be done to inform workers of key rules and regulations to follow.

Noise Control

The contractor shall control noise emissions generated as a result of contracting activities to the extent possible. In the case of site locations where noise disturbance will be a concern, the contractor shall ensure that the equipment is in good working order with manufacturer supplied noise suppression (mufflers etc.) systems functioning and in good repair.

Where noise management is a concern, the contractor shall make reasonable efforts to schedule activities during normal working hours (between 7 am and 5 pm). Where noise is likely to pose a risk to the surrounding community either by normal works or working outside of normal working hours or on weekends, the contractor shall inform the contracting officer and shall develop a public notification and noise management plan for approval by the contracting officer.

Use and Management of Hazardous Materials, fuels, solvents and petroleum products

The use of any hazardous materials including pesticides, oils, fuels and petroleum products shall conform to the proper use recommendations of the product. Waste hazardous materials and their containers shall be disposed of in a manner approved by the contracting officer in accordance with State and/or national laws and the Project ESCMP. A site management plan will be developed by the contractor if the operation involves the use of these materials to include estimated quantities to be consumed in the process, storage plans, spill control plans, and waste disposal practices to be followed. Any plans required shall be approved by the contracting officer.

Elements of the hazardous materials management shall include:

- Contractor must provide temporary storage on site of all hazardous or toxic substances in safe containers labeled with details of composition, properties and handling information;
- Hazardous substances shall be placed in a leak-proof container to prevent spillage and leaching; and
- Wastes shall be transported and disposed of in a manner outlined in the ESCMP, and cleared by the PMU Safeguards Team compliant with national laws and policies and the ESCMP.

Use and Management of Pesticides

Any use of pesticides shall be approved by the contracting officer and shall conform to the manufacturers' recommendations for use and application. Any person using pesticides shall demonstrate that they have read and understood these requirements and are capable of complying with the usage recommendations to the satisfaction of the contracting officer. All pesticides to be used shall conform to the list of acceptable pesticides that are not banned by the relevant local authority.

If termite treatment is to be utilized, ensure appropriate chemical management measures are implemented to prevent contamination of surrounding areas, and use only licensed and registered pest control professionals with training and knowledge of proper application methods and techniques.

Use of Explosives

No explosives shall be used on the Project.

Site Stabilization and Erosion Control

The Contractor shall implement measures at the site of operations to manage soil erosion through minimization of excavated area and time of exposure of excavated areas, preservation of existing ground cover to the extent possible, provision of approved ground cover and the use of traps and filtration systems. Where excavations are made, contractor shall implement appropriate stabilizing techniques to prevent cave-in or landslide. Measures shall be approved by the contracting officer.

The contractor must ensure that appropriate erosion control measures such as silt fences are installed. Proper site drainage must be implemented. Any drain clogged by construction material or sediment must be unclogged as soon as possible to prevent overflow and flooding. The use of retaining

structures and planting with deep rooted grasses to retain soil during and after works must be considered. The use of bio-engineering methods must be considered as a measure to reduce erosion and land slippage. All slopes and excavated areas must be monitored for movement.

The contractor will establish appropriate erosion and sediment control measures such as hay bales, sedimentation basins, and / or silt fences and traps to prevent sediment from moving off site and causing excessive turbidity in nearby streams, rivers and wetlands. Construction vehicles and machinery will be washed only in designated areas where runoff will not pollute natural surface water bodies.

Air Quality

The Contractor shall comply with the Project ESCMP requirements for dust management.

Traffic Management

In the event that construction activities should result in the disruption of area transportation services, including temporary loss of roadways, blockages due to deliveries and site related activities, the contractor shall provide the contracting officer with a traffic management plan including a description of the anticipated service disruptions, community information plan, and traffic control strategy to be implemented so as to minimize the impact to the surrounding community. This plan shall consider time of day for planned disruptions, and shall include consideration for alternative access routes, access to essential services such as medical, disaster evacuation, and other critical services. The plan shall be approved by the contracting officer.

Elements of the traffic management plan to be developed and implemented by contractor shall include:

- Alternative routes will be identified in the instance of extended road works or road blockages;
- Public notification of all disturbance to their normal routes;
- Signage, barriers and traffic diversions must be clearly visible, and the public warned of all potential hazards;
- Provision for safe passages and crossings for all pedestrians where construction traffic interferes with their normal route;
- Active traffic management by trained and visible staff at the site or along roadways as required to ensure safe and convenient passage for the vehicular and pedestrian public; and
- Adjustment of working hours to local traffic patterns, e.g. avoiding major transport activities during rush hours or times of livestock movement.

Water Quality

The Contractor shall comply with the Project ESCMP requirements for water quality. Under no circumstances shall the contractor permit the collection of standing water as a consequence of contractor activities to ensure that it does not create breeding grounds for any pests such as mosquitoes.

Management of Solid Wastes and Construction Debris

The contractor shall provide a solid waste management plan that conforms to the national solid waste management policies and regulations and the site-specific ESCMP for approval by the PMU and IFAD (see Appendix 3 for an outline of a site-specific ESCMP). The site's waste management plan shall include a description of waste handling procedures including collection, storage and disposal through the national waste management system. There will be no open burning of waste material and the contractor shall endeavor to recycle wastes as appropriate. Under no circumstances shall the contractor allow construction wastes to accumulate so as to cause a nuisance or health risk due to the propagation of pests and disease vectors.

Management of Workers

The Contractor will prepare a specific Code of Conduct (see Appendix 9) to describe the expected behaviors of their project worker in relation to the local communities and their social sensitivities. This is to avoid creating demand for illegal sex work, avoid SEA/SH and Violence against Children, manage alcohol consumption and avoid the use of illegal substances, and abide by cultural and social norms of the host community. The Contractor is to ensure no children (persons under the age of 18) are hired to work in the project.

The Contractor is to ensure that all overseas project staff undergo a training on the Staff Code of Conduct. Gender based violence and HIV/AIDS and communicable disease awareness raising and resources shall also be provided to all workers. MARD shall provide to the Contractor a list of approved service providers, which shall include recognized NGOs and others for conducting this training.

The Contractor is to stipulate the conditions under which visitors may attend the workers' accommodation, including curfews. The Contractor shall ensure that basic social/collective rest and recreation spaces and activities within the workers accommodation to help minimize the impact that the workers would have on the leisure and recreational facilities of the nearby communities. The Contractor must comply with the Guidelines for Worker's Camps (Annex 6).

As per guidelines in the ESCMP, the Contractor must ensure that Worker's Camps are located at least 500m from nearby communities and schools (see Annex 6).

ANNEX 6: GUIDELINES FOR WORKERS' CAMPS

To ensure the compliance to the OHS and ESF requirement, these guidelines will help the contractor when setting up worker's camps.

GENERAL

The Workers Camp Management Plan will be compliant with the specific prescriptions of the site-specific ESCMP. Contractors must ensure that Worker's Camps are located at least 500m from nearby communities and schools.

WORKER RECRUITMENT

The Contractor is required to minimise the number of skilled workers that are recruited from overseas. No unskilled labour will be sourced from overseas. Local communities should be prioritized for unskilled labour, including a target of 15% female unskilled workers when/where applicable. The Contractor will maximize the number of skilled and unskilled workers that are recruited from the communities along the project site.

The Contractor will be required to provide justification for any skilled workers recruited from overseas and explain why this position cannot be filled locally.

WORKERS CAMP FACILITIES

All facilities in the Workers Camp must be complaint with the stipulations of the ESCMP. The camp shall be provided with the following minimum facilities:

- Eating space and dormitories as required shall be constructed of suitable materials to provide a safe healthy environment for the workforce and which facilitate regular cleaning and the provision of ventilation and illumination.
- At least one water closet toilet, one urinal and one shower per 10 personnel engaged either permanently or temporarily on the project. Separate toilet and wash facilities shall be provided for male and female employees, including ensuring that toilets are available close to working sites/road sections where women are working.
- A sick bay and first aid station.
- Sewage collection facilities to allow for the treatment of black and grey wastewater discharge from toilets, washrooms, showers, kitchens, laundry and the like. The management of all camp wastewater water shall be as prescribed in the ESCMP.
- All camp facilities shall be maintained in a safe clean and or appropriate condition throughout the construction period.
- Throughout the period of the contract the employer, the engineer, or their representatives shall have uninterrupted access to and from the camp for the purpose of carrying out routine inspections of all buildings, facilities or installations of whatever nature to ensure compliance with this specification.

WORKERS CAMP OPERATIONS

- The Contractor will be required to provide adequate provisions for the workers for the duration of the project so as not to be a burden on the food or water security of the surrounding communities. The Contractor will strive to hire local labour to provide cleaning and food services.
- All wastewater, solid waste, freshwater usage, noise levels, handling and storage of hazardous materials shall be as prescribed in the ESCMP.

MANAGEMENT OF OFF DUTY WORKERS

- The Contractor will prepare ensure all staff sign and adhere to the Workers' Code of Conduct to describe the expected behaviours of their project worker in relation to the local communities and their social sensitivities.

- The Contractor is to ensure that all overseas project staff, not already living in Cambodia undergo a cultural familiarisation session as part of their induction training. The purpose of this induction will be to introduce the project staff to the cultural sensitivities of the local communities and the expected behaviours of the staff in their interactions with these communities.
- The Contractor is to stipulate the conditions under which visitors may attend the workers camp. Strict visiting hours should be enforced, and all visitors will be required to sign in and out of the worker's camp. No overnight visitors will be allowed.
- The Contractor shall ensure that basic social/collective rest spaces are provided equipped with seating within the Workers Camp to help minimise the impact that the workers would have on the leisure and recreational facilities of the nearby communities. Provisions should also be made to provide the workers with an active recreation space within the camp.

WORKERS CAMP MANAGEMENT PLAN

A Worker Camp Management Plan shall be submitted by the Contractor to the Provincial PMU. The Workers' Camp Management Plan shall describe how this document and the ESCMP shall be implemented in the following:

- Recruitment strategy
- Accommodation
- Canteen and dining areas
- Ablutions
- Water supply
- Wastewater management system
- Proposed power supply
- Code of Conduct for Workers
- Recreational/leisure facilities for workers
- Visitors to the Workers Camp
- Interactions with the local communities

ANNEX 7: CONTRACTORS' COVID-19 GUIDELINE

The objective of the Contractors' General Guideline on COVID-19 Considerations in Construction Works is to provide guidance on Prevention Measures and Response to possible cases of COVID-19 following the update-to-day guidance of the Ministry of Health.

Prevention Measures:

- Dissemination of COVID-19 prevention measures to staff and workers through orientation or distributing leaflet/poster at information/safety board at each construction and camp site
- Daily checking temperature of staff and workers prior to start working
- Staff and workers are wearing masks all the time
- Do not share personal items or supplies such as phones, pens, notebooks, tools, etc
- Avoid common physical greetings, such as handshakes
- Maintain a minimum physical distance of one metre from others if possible
- Wash hands often with soap and water for at least 20 seconds after using the washroom, before handling food, after blowing nose, coughing, or sneezing, and before smoking. If hands are not visibly soiled, and soap and water are unavailable, alcohol-based hand sanitizer can be used
- All offices and jobsites implement additional cleaning measures of common areas. All door handles, railings, ladders, switches, controls, eating surfaces, shared tools and equipment, taps, toilets, and personal workstation areas are wiped down at least twice a day with a disinfectant, such as disinfectant wipes. Individuals are responsible for cleaning and disinfecting their workstations
- Commonly touched surfaces on vehicles and equipment are thoroughly cleaned and disinfected at the end of shifts and between users
- Coughing or sneezing into a tissue or the bend of your arm, not your hand; dispose of used tissues you have as soon as possible in a lined waste basket and wash your hands afterwards
- Complying with any instructions announced by the Ministry of Health

Response to Possible Cases of COVID-19

- Individuals who have been potentially exposed to the virus, or who are exhibiting flu-like symptoms such as fever, tiredness, coughing, or congestion are instructed to:
 - Not come to work;
 - Contact their supervisor and/or human resources department;
 - Stay at home and self-isolate; and
 - Contact local health authorities for further direction.
- Such individuals are required to follow the directions of the local health authority and may not return to work until given approval by the proper health authorities;
- Individuals who begin to display flu-like symptoms on site are instructed to avoid touching anything, take extra care to contain coughs and sneezes, and return home immediately to undergo self-isolation as directed by the local health authority;
- All areas on site potentially infected by a confirmed or probable case are barricaded to keep individuals two meters away until the area is properly cleaned and disinfected.

ANNEX 8: WORKERS' CODE OF CONDUCT

Instructions: This Code of Conduct should be included in bidding documents for the civil works contractor(s) and in their contracts once hired. This Code of Conduct should also be included in bidding documents, and the contracts, of construction contractor. This Code of Conduct is to be signed by all contractor, including subcontractors, if any, including contractors and subcontractors' managers who work under the CAISAR project.

I, _____, acknowledge that adhering to environmental, social, health and safety (ESHS) standards, following the project's occupational health and safety (OHS) requirements, and preventing Sexual Exploitation Abuse (SEA)/Sexual Harassment (SH) is important.

The Contractor/DDIS considers that failure to follow ESHS and OHS standards, or to partake in activities constituting SEA and SH be it on the work site, the work site surroundings, at workers' camps, or the surrounding communities—constitute acts of gross misconduct and are therefore grounds for sanctions, penalties or potential termination of employment. Prosecution by the Police of those who commit VAC, SEA/SH may be pursued if appropriate.

I agree that while working on the project I will:

- Carry out his/her duties competently and diligently;
- Comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
- Maintain a safe working environment including by:
 - Ensure that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
 - Use appropriate measures relating to chemical, physical and biological substances and agents; and
 - Follow applicable emergency operating procedures.
- Report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and danger to his/her life or health;
- Consent to a background check in any place I have worked for more than six months.
- Attend and actively partake in training courses related to ESHS, OHS, VAC, SEA/SH as requested by my employer.
- Will wear my personal protective equipment (PPE) at all times when at the work site or engaged in project related activities.
- Take all practical steps to implement the environmental and social management plan (ESCMP).
- Implement the OHS Management Plan.
- Adhere to a zero-alcohol policy during work activities, and refrain from the use of narcotics or other substances which can impair faculties at all times.
- Treat women, children (persons under the age of 18), and men with respect regardless of race, color, language, religion, political or other opinion, national, ethnic or social origin, property, disability, birth or other status.
- Not use language or behavior towards women, children or men that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate.
- Not sexually exploit or abuse project beneficiaries and members of the surrounding communities.

- Not engage in sexual harassment of work personnel and staff—for instance, making unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature is prohibited: i.e. looking somebody up and down; kissing, howling or smacking sounds; hanging around somebody; whistling and catcalls; in some instances, giving personal gifts.
- Not engage in sexual favors—for instance, making promises of favorable treatment (i.e. promotion), threats of unfavorable treatment (i.e. loss of job) or payments in kind or in cash, dependent on sexual acts—or other forms of humiliating, degrading or exploitative behavior.
- Not use prostitution in any form at any time.
- Not participate in sexual contact or activity with children under the age of 18—including grooming or contact through digital media. Mistaken belief regarding the age of a child is not a defense. Consent from the child is also not a defense or excuse.
- Unless there is the full consent¹⁹ by all parties involved, I will not have sexual interactions with members of the surrounding communities. This includes relationships involving the withholding or promise of actual provision of benefit (monetary or non-monetary) to community members in exchange for sex (including prostitution). Such sexual activity is considered “non-consensual” within the scope of this Code.
- Consider reporting through the GRM or to my manager any suspected or actual SEA/SH by a fellow worker, whether employed by my company or not, or any breaches of this Code of Conduct.
- Complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation, and Sexual Assault (SEA);
- Report violations of this Code of Conduct; and

With respect to children under the age of 18:

- Bring to the attention of my manager the presence of any children on the construction site or engaged in hazardous activities.
- Wherever possible, ensure that another adult is present when working in the proximity of children.
- Not invite unaccompanied children unrelated to my family into my home unless they are at immediate risk of injury or in physical danger.
- Not use any computers, mobile phones, video and digital cameras or any other medium to exploit or harass children or to access child pornography (see also “Use of children’s images for work related purposes” below).
- Refrain from physical punishment or discipline of children.
- No hiring of children for any CAISAR project activity (no persons under the age of 18).
- Comply with all relevant local legislation, including labor laws in relation to child labor and World Bank’s safeguard policies on child labor and minimum age.
- Take appropriate caution when photographing or filming children (see x-bb below). Photos or films of children should generally not be taken in the CAISAR, except in instances showing the benefits or impacts of road works, such as impacts to schools or school safety trainings.

Use of children's images for work related purposes

When photographing or filming a child for work related purposes, I must:

- Before photographing or filming a child, assess and endeavor to comply with local traditions or restrictions for reproducing personal images.
- Before photographing or filming a child, obtain informed consent from the child and a parent or guardian of the child. As part of this I must explain how the photograph or film will be used.

¹⁹ **Consent** is defined as the informed choice underlying an individual’s free and voluntary intention, acceptance or agreement to do something. No consent can be found when such acceptance or agreement is obtained using threats, force or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if national legislation of the country into which the Code of Conduct is introduced has a lower age. Mistaken belief regarding the age of the child and consent from the child is not a defense.

- Ensure photographs, films, videos and DVDs present children in a dignified and respectful manner and not in a vulnerable or submissive manner. Children should be adequately clothed and not in poses that could be seen as sexually suggestive.
- Ensure images are honest representations of the context and the facts.
- Ensure file labels do not reveal identifying information about a child when sending images electronically.

Raising Concerns

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

- Contact [enter name of the Contractor's Social Expert with relevant experience in handling gender-based violence, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters] in writing at this address [] or by telephone at [] or in person at []; or
- Call [] to reach the Contractor's hotline (if any) and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

Sanctions

I understand that if I breach this Workers' Code of Conduct, my employer will take disciplinary action which could include:

- Informal warning;
- Formal warning;
- Additional Training;
- Loss of up to one week's salary;
- Suspension of employment (without payment of salary), for a minimum period of 1 month up to a maximum of 6 months;
- Termination of employment;
- Report to the Police if warranted.

I understand that it is my responsibility to ensure that the environmental, social, health and safety standards are met. That I will adhere to the occupational health and safety management plan. That I will avoid actions or behaviors that could be construed as VAC or SEA/SH. Any such actions will be a breach this Workers' Code of Conduct. I do hereby acknowledge that I have read the foregoing Workers' Code of Conduct, do agree to comply with the standards contained therein and understand my roles and responsibilities to prevent and respond to ESHS, OHS, VAC and SEA/SH issues. I understand that any action inconsistent with this Workers' Code of Conduct or failure to act mandated by this Workers' Code of Conduct may result in disciplinary action and may affect my ongoing employment.

Signature: _____
Printed Name: _____
Title: _____
Date: _____

ANNEX 9: SAMPLE TORS FOR AN ENVIRONMENT & CLIMATE SAFEGUARDS SPECIALIST

BACKGROUND: [This section must include the project background, ideally tailored to the specific PPMU]

OBJECTIVE:

The Environment & Climate Safeguards Specialist will be responsible for the implementation, monitoring, and reporting of all environment and climate-related safeguards for the project. This will include, when relevant, implementation of the project's Grievance Redress Mechanism (GRM), and any items listed in the Environmental, Social, and Climate Management Framework (ESCMF). You will work in close collaboration with the Gender & Social Safeguards Specialist, as well as the project's Monitoring & Reporting specialist. You will report to the lead of the Provincial Project Management Unit.

RESPONSIBILITIES:

- Prepare, implement, and monitor environmental safeguards instruments, including the environmental & climate-risk aspects of ESCMPs and any Biodiversity Management Plans.
- Compile the environmental baseline data for ESCMPs and Biodiversity Management Plans (when applicable) at sub-project sites based on requirements of the Government of Cambodia, IFAD, and GCF
- Identify key issues & ways to manage issues pertaining to the environment and climate.
- Conduct consultations, in collaboration with the Gender & Social Safeguards Specialist, with target communities in the project area to assess the (i) current environmental situation (at local level, this includes peoples' perception of the situation); (ii) environmental & climate-related impacts of sub-projects; and (iii) mitigation measures (including the communities' recommendations/solutions) that can be taken pertaining to any negative environmental/climate impacts
- Obtain data from, sensitize, and clearly explain to relevant government staff (or civil society organizations/partners, etc.) the data, M&E, and compliance requirements for environmental safeguards & climate risk considerations during project implementation.
- Manage, along with the Gender & Social Safeguards Specialist, the project's Grievance Redress Mechanism.

MINIMUM REQUIREMENTS:

- Manage, along with the Gender & Social Safeguards Specialist, the project's Grievance Redress Mechanism.
- Advanced University degree in Environmental Science, Biology, Environmental/Civil Engineering, or any related field.
- Minimum of 5 years of relevant operational experience and proven track record in working agricultural, forest management, and construction activities, including compliance with Environmental and Social standards
- Familiarity with climate science and management of climate risks
- Working knowledge of English and Khmer proficiency.
- National of Viet Nam.

CORE COMPETENCIES:

- Results Focus
- Teamwork
- Communication
- Building Effective Relationships
- Knowledge Sharing and Continuous Improvement

TECHNICAL/FUNCTIONAL SKILLS:

- Work experience in implementation and management of international safeguards standards pertaining to environment, climate, and agroforestry activities.
- Knowledge of issues pertaining to environment, climate, and biodiversity.

- Knowledge of computer-aided design programs, AutoCAD required and Structural Analysis programs.
- Knowledge and understanding of international environmental and social safeguards standards and practices

SELECTION CRITERIA:

- Demonstrated capacity supervise agricultural, forest management, and construction activities, including compliance with Environmental and Social standards
- Demonstrated ability to liaise with multiple agencies and contractors, effectively building an understanding and partnership with other UN bodies, NGOs, government agencies, and contractors
- Ability to plan, organize, implement, and report
- Excellent communication, writing, and presentation skills in English and Khmer
- Teamwork spirit, ability to work under minimum supervision
- Ability to build effective working relationships with national and international colleagues, with different cultural and technical backgrounds
- Proven strong communication, interpersonal and negotiation skills
- Analytical skills and experience.
- Ability to keep sensitive information as confidential.

ANNEX 10: SAMPLE TORS FOR A GENDER & SOCIAL SAFEGUARDS SPECIALIST

BACKGROUND: [This section must include the project background, ideally tailored to the specific PPMU]

OBJECTIVE:

The Gender & Social Safeguards Specialist will be responsible for the implementation, monitoring, and reporting of all environment and climate-related safeguards for the project. This will include, when relevant, implementation of the project's Grievance Redress Mechanism (GRM), and any items listed in the Environmental, Social, and Climate Management Framework (ESCMF). You will work in close collaboration with the Gender & Social Safeguards Specialist, as well as the project's Monitoring & Reporting specialist. You will report to the lead of the Provincial Project Management Unit.

RESPONSIBILITIES:

- Prepare, implement, and monitor social safeguards instruments, including the social aspects of ESCMPs, the Labour Management Plan, and IP Plan.
- Compile the social baseline data for ESCMPs, LMPs, and IP Plans at sub-project sites with information on demographics, ethnic/religious minorities and indigenous populations, overall population, education, health, social protection, language(s), religion, and any other areas required based on IFAD and GCF guidelines
- Identify key issues & ways to manage issues pertaining to gender, IP, and social inclusion.
- Conduct consultations, in collaboration with the Environment & Climate Specialist, with target communities in the project area to assess the (i) current social situation (at local level, this includes peoples' perception of the situation); (ii) social impacts of sub-projects; and (iii) mitigation measures (including the communities' recommendations/solutions) that can be taken pertaining to any negative social impacts
- Obtain data from, sensitize, and clearly explain to relevant government staff (or civil society organizations/partners, etc.) the data, M&E, and compliance requirements for social safeguards & gender/IP/social inclusion during project implementation.
- Manage, along with the Environment & Climate Safeguards Specialist, the project's Grievance Redress Mechanism.

MINIMUM REQUIREMENTS:

- Advanced University degree in Social Sciences, Gender Studies, International Development, or any related field to social inclusion/gender and social safeguards.
- Minimum of 5 years of relevant operational experience and proven track record in working on development projects in the agriculture/forest sector.
- Working knowledge of English and Khmer proficiency.
- National of Viet Nam.

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CORE COMPETENCIES:

- Results Focus
- Teamwork
- Communication
- Building Effective Relationships
- Knowledge Sharing and Continuous Improvement

TECHNICAL/FUNCTIONAL SKILLS:

- Work experience in implementation and management of gender and social inclusion activities, and social safeguards to international standards.
- Knowledge of issues pertaining to ethnic minorities, Indigenous Persons, gender, youth, and other vulnerable populations.
- Knowledge and understanding of international environmental and social safeguards standards and practices

SELECTION CRITERIA:

- Demonstrated capacity supervise agricultural, forest management, and construction activities, including attention to issues of gender and social inclusion and compliance with Environmental and Social standards
- Demonstrated ability to liaise with multiple agencies and contractors, effectively building an understanding and partnership with other UN bodies, NGOs, government agencies, and contractors
- Ability to plan, organize, implement, and report
- Excellent communication, writing, and presentation skills in English and Khmer
- Teamwork spirit, ability to work under minimum supervision
- Ability to build effective working relationships with national and international colleagues, with different cultural and technical backgrounds
- Proven strong communication, interpersonal and negotiation skills
- Analytical skills and experience.
- Ability to keep sensitive information as confidential.

ANNEX 11: MISSION 3 LIST OF PARTICIPANTS

MINISTRY OF ECONOMY AND FINANCE(MEF)

- | | | |
|----|----|------------------------------------|
| 1. | 1. | Heng Hanglim, Deputy Director, GDR |
| 2. | 2. | Khem Sopheamony, Officer, GDR |
| 3. | 3. | Huy Cahnnan, Officer, GDR |

PMU ADB & WB MOWRAM

- | | | |
|-----|-----|--|
| 1. | 4. | H.E Chann Sinath, Secretary of State and Director of PMU-ADB&WB MOWRAM |
| 2. | 5. | Im Soursdey, Deputy Director of DFWUC and IAIP Project Manager |
| 3. | 6. | Chhim Sophea, Irrigation Engineer |
| 4. | 7. | Ngorn Ly Leakina, Officer Administration Office of DoFWUC |
| 5. | 8. | Chev Dalis, Procurement Assistant and Officer of DoFWUC |
| 6. | 9. | Kim Vann, Finance Officer, DoFWUC |
| 7. | 10. | Thou Vannak, Consultant |
| 8. | 11. | Lang Sokkim, Vice Chief Officer |
| 9. | 12. | Pol Saren, Deputy Director of Department |
| 10. | 13. | Tan Naren, Chief of Office |
| 11. | 14. | Hem Visal, Vice Chief Officer |
| 12. | 15. | Prum Vanndy, Officer |
| 13. | 16. | Vann Vathanak, Officer |
| 14. | 17. | Eam Sophorn, Officer |
| 15. | 18. | Vann Munirath, Officer |
| 16. | 19. | Heng Sovannara, Director, TSA |
| 17. | 20. | Khvan Pheaktra, Officer, TSA |
| 18. | 21. | Tong Seng, Chief of Office, DHRW |
| 19. | 22. | Chhun Thai Sreng, PMU |
| 20. | 23. | Penh Socheat, National Environment, Consultant Team |
| 21. | 24. | Le Anh Tuan, International Social Specialist |
| 22. | 25. | Sreng Vanmly, Deputy of Office |
| 23. | 26. | Sok KHOM, Deputy Secretary General, CNMC |
| 24. | 27. | Roeun Sophanna, Procurement Team |

MINISTRY OF ENVIRONMENT (MOE)

- | | | |
|----|-----|-----------------------------|
| 1. | 28. | Thiv Sophearith, DDG/GDEP |
| 2. | 29. | Pech Moran, Deputy Director |
| 3. | 30. | Chea Puthea, Official |

MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES (MAFF)

- | | | |
|----|-----|--|
| 1. | 31. | Koeut Kitlineath, Deputy Secretary General |
| 2. | 32. | Seng Tuy, Acting Director, DAEng |

MINISTRY OF INDUSTRY, SCIENCE, TECHNOLOGY & INNOVATION (MISTI)

- | | | |
|----|-----|--|
| 1. | 33. | Kim Thunsamngang, Deputy Director General |
| 2. | 34. | Chhoeun Raksmeay, Deputy Director |
| 3. | 35. | Vong Sanin, Technical Officer & Project Management |

MINISTRY OF RURAL DEVELOPMENT (MRD)

1. 36. Ong Ponnaka, Deputy Director General
2. 37. Soem Sopheara, Chief Office
3. 38. Se Vophorn, Chief Office

MINISTRY OF WOMEN AFFAIR (MOWA)

1. 39. Sav Kimsoeurn, Deputy Director General
2. 40. Meas ChinVut, Chief Office
3. 41. Phay Chan Makara, Vice Chief Office

MINISTRY OF LAND MANAGEMENT, URBAN PLANNING AND CONSTRUCTION (MLMUPC)

1. 42. CHHIM Sokun, Deputy Director General
2. 43. Meng Sotha, Director

MINISTRY OF PLANNING (MOP)

1. 44. Laing Bolin, Deputy Director

PDWRAM_Kandal

1. 45. Prak LAK, Director of PDoWRAM
2. 46. Hor Sophal, Deputy of PDoWRAM
3. 47. Heng Kearithy, Officer

PDWRAM_Kampong Chhnang

1. 48. H.E PECH KEYMONY, Deputy Governor
2. 49. Dauk BunThon, Director of PDoWRAM
3. 50. Gnin Hun, Director of PDAFF
4. 51. Seing Sokhan, Deputy Governor of Teuk Phos District
5. 52. Lun Pisey, Officer of of PDAFF
6. 53. Pen Sophea, Chief Commune of Svay Chuk
7. 54. Phan Sophalla, Commune Council of Krang Skea
8. 55. Keo Yan, Chief Commune of Krang Skea
9. 56. Sam San, Chief Commune of Tbeng Khpos
10. 57. Ouk Proeung, Chief Commune of Svay
11. 58. Meas Sokea, Commune Clerk
12. 59. Mak Sothearith, Commune Clerk
13. 60. Mong Vath, Chief Commune of Anchanh Rong
14. 61. Seam Senghour, Chief Commune of Prey Moul
15. 62. Khuy Khy, Chief Commune of Prasnoeb
16. 63. Prum Thorn, Chief Commune of Banteay Preal
17. 64. Moeng Visalsok, Chief Commune of Kdol Senchey
18. 65. Mey Sophally, Deputy Governor of Rolea Bier District
19. 66. Phal Sopheap, Deputy Governor of Baribour District
20. 67. Suon Sokha Rithy, Deputy Governor of Samakey Meanchey District

PDWRAM_Kampong Speu

1. 68. Nhanh Cheabhorng, Director of PDoWRAM

PDWRAM_Pursat

1. 69. H.E Khouy Ryda, Chief of Provincial Governor
2. 70. Lay Seth, Deputy Governor
3. 71. Tep Chamroeun, Director of Administration
4. 72. Kang Penghak, Chief Department of Public Work and Transport

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|-----|-----|---|
| 5. | 73. | Hai Thoura, Chief of PDoAFF |
| 6. | 74. | Keo Vey, Director of PDoWRAM |
| 7. | 75. | Oum Sokna, Deputy Governor of Ba Kan District |
| 8. | 76. | Nin Sinath, Deputy Director of PDoRD |
| 9. | 77. | Sat Tongno, Chief Office |
| 10. | 78. | Kit Phal, Deputy of PDoWRAM |
| 11. | 79. | Dos Dara, Commune Council of Rom Lech |
| 12. | 80. | Lav Sokha, Chief Office of PDoWRAM |
| 13. | 81. | Mao Minea, Vice Office of PDoWRAM |
| 14. | 82. | Meng Chhon, Chief Commune of Outa Pong |
| 15. | 83. | Em Phovibol, Chief Office of PDoE |
| 16. | 84. | Suong Saravuth, Deputy Director of Administration |
| 17. | 85. | Nget Seyha, Official |
| 18. | 86. | Sat Banve, Officer |

AIIB

- | | | |
|----|-----|------------------------------------|
| 1. | 87. | Ron Liuingston, Team Leader, SECAP |
| 2. | 88. | Y. Chan San, Consultant |
| 3. | 89. | Bo Zhang, Officer |
| 4. | 90. | Sheikh Naveed Ahmed, Officer |
| 5. | 91. | Xiang Xu, Officer |

CAISAR

- | | | |
|----|-----|--------------------------------|
| 1. | 92. | Anthony Green, Team Leader |
| 2. | 93. | Srey Heang, Deputy Team Leader |

IFAD

- | | | |
|----|-----|--|
| 1. | 94. | Frew Behabtu, Country Director |
| 2. | 95. | Susmita Bandyopadhyay, Senior SECAP Specialist |
| 3. | 96. | MENG Sakphouseth, Country Officer |
| 4. | 97. | Suos Pinreak, Program Specialist |

FAO

- | | | |
|----|-----|--|
| 1. | 98. | ALESSANDRA GAGE, International Environment Officer |
|----|-----|--|

CS-01PMIC

- | | | |
|----|------|---|
| 1. | 99. | Willem J van Diest, Team Leader of PMIC |
| 2. | 100. | Ung Kotaro, Deputy Team Leader |

CS-02 NWRDMC

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|----|------|--------------------------------|
| 1. | 101. | Pen Sarith, Deputy Team Leader |
| 2. | 102. | IAN Thomas, PPC |

CS-03 INDIVIDUAL

- | | | |
|----|------|--|
| 1. | 103. | Yin Phalleap, Finance and Accounting Management Specialist |
|----|------|--|

ANNEX 12: TOR BIODIVERSITY MANAGEMENT SPECIALIST

TERMS OF REFERENCE

International Biodiversity Specialist

Background

The Government of Cambodia (GoC) has applied for financing from the Asian Infrastructure Investment Bank (AIIB or the Bank) toward the cost of the Climate Adaptive Irrigation Supporting Agricultural Resilience (CAISAR) which will support the GoC's efforts to sustain food security and improve climate resilience during and after the COVID-19 crisis through restoration and enhancement of smart and climate-resilient irrigation systems and associated ecosystems, flood control management and disaster resilience measures in 3 irrigation schemes situated in four provinces, namely: Kampong Speu, Kampong Chhnang, Kandal, and Pursat. The development objective of the CAISAR project is to restore and enhance the adaptive capacity and resilience of rural populations and agronomic systems to cope with climate change, including and disaster risk brought on by extreme events (flooding and drought), to achieve increased food security, agro-economics, and the maintenance of the companion biodiversity and ecosystem services that support it.

The estimated budget of the CAISAR project will exceed US 240 Million with AIIB being the major lender but with substantial grant co-financing for Green Climate Fund (GCF) and IFAD. MOWRAM has received a project preparation grant from AIIB (PPSF) for project preparation. The project will be implemented through the following 3 components: 1) Improving farm-level climate resilience and water use efficiency, 2) Climate-proofing water infrastructure for increased resilience and 3) Institutional Strengthening. In 2022/23, under this PPSF grant, MOWRAM implemented a first project formulation and feasibility study (FIRM) to provide the basis for the GCF funding proposal. MOWRAM is now seeking additional TA to complement this FIRM reporting and support the formulation of the Full-Funding Proposal.

General

Based on an assessment of climate change risk analyses, the Biodiversity Consultant will identify and assess the manner in which climate change is likely to impact biodiversity in the project area; with particular attention to species that either support agriculture (e.g. wild fish, birds, pollinators, soil micro-biome,) or conflict with agriculture (e.g. crop pests, displaced wildlife, alien invasive species). The climate and project risks to Threatened species existing in the project area would also be assessed and potential mitigation responses identified. This analysis will be used to generate a number of practical and cost effective recommendations to be included in a Biodiversity Management Plan.

The Consultant will also work in collaboration with the multidisciplinary CAISAR team to help identify biodiversity risk to and opportunities associated with proposed project agricultural interventions/adaptive solutions and to provide timely recommendations for their more sustainable design, selection, implementation, monitoring and associated local, inclusive, capacity building.

The Consultant will also provide guidance related to consideration, selection and development of biodiversity offsets where unavoidable residual impacts associate with proposed project interventions, can be offset and in some cases applied to Kunming declaration objectives.

The analysis will prioritize biodiversity mitigation and management programs based on their relevance and cost-effectiveness, to address the risks and opportunities associated with climate change and project initiatives. The prioritization exercise would include consideration of opportunities to adaptively enhance and benefit from the cultivation of local heirloom genetic varieties, wild cultivars and potential enhanced propagation of more resilient native fish and potential other faunal species. To the extent possible, solutions that are adapted to the needs of the poor, women, youth, and indigenous groups should be

highlighted.

To achieve the above objective with high quality deliverables, the international climate change biodiversity specialist is required to fulfil the following tasks and responsibilities:

1. *Describe the methodology, location time and costs for a series of strategic biodiversity surveys within the CAISAR project study area to validate and expand on the existing IBAT data set. The data collected will provide baseline data against which project intervention, project impact and climate driven change can be monitored. These data will provide essential information that can be used to apply adaptive management practices to ensure project initiatives optimize positive biodiversity and ecosystem service outcomes.*

Deliverable: *Guidance document detailing methodology to be used for biodiversity surveys.*

2. *Identify species of flora and fauna, including threatened and invasive species in the project area, most likely to be impacted by Climate change, climate extremes and expansion of agriculture, including CAISAR projects, as well as species used by local communities and or, on which there are dependencies.*

Deliverable: *prioritized flora and fauna species list with summary data on species habitat associations, conservation status, record of occurrence in the project area, probable key habitats, population trends, population drivers, and assessment of climate risk to species)*

3. *Prepare a high-level/landscape-level? Biodiversity Management Plan (BMP) addressing each of the 6 CAISAR sub-project areas. The BMP will highlight species and habitats of concern, and Identify potential approaches to deliver positive environmental externalities (e.g. air quality, soil, water quality and availability, ecosystem services, biodiversity) that can be incorporated into CAISAR initiatives. CAISAR BMP will include guidance for the assessment of residual biodiversity impacts, provision for adaptive management, monitoring requirements, and development of site-specific Biodiversity Action Plans.*

Deliverable: *CAISAR Landscape Level BMP*

4. *Refine biodiversity sensitivity mapping based on available data and make this available to the CAISAR planning and design process.*

Deliverable: *refined biodiversity sensitivity map for the CAISAR project area and each of the 6 sub-project areas)*

5. *Prepare a community biodiversity survey questionnaire to better understand biodiversity trends, perceived drivers, local use and community perspectives on biodiversity conservation and local importance in the CAISAR study area/area of influence. A detailed methodology, including questions, target communities, time and costs estimate would be prepared.*

Deliverable: *Local Biodiversity Knowledge Questionnaire and Survey Guidance document.*

6. *Identify key biodiversity stakeholders to be engaged while identifying biodiversity conservation priorities and concerns, development of biodiversity management/action plans, and residual impact biodiversity offsets,*

Deliverable: *Biodiversity Stakeholders List and contact information)*

7. *Identify potential priority biodiversity offset locations and site management requirements based on site analysis and consultation with government and community authorities.*

Deliverable: *List of priority biodiversity offset sites proximate to each of the 6 CAISAR project areas that would be more suitable and relevant for the development of biodiversity offsets.*

8. *Integrate biodiversity initiatives into the overall CAISAR stakeholder engagement plan identifying the relevant stakeholder groups and the engagement process to be followed.*

Deliverable: *Specific reference to biodiversity in the CAISAR stakeholder Engagement Plan.*

9. *Work collaboratively and cooperatively with the CAISAR multi-disciplinary team to ensure biodiversity conservation and enhancement is practically integrated into project planning, design elements and companion documentation.*

Deliverable: Reference to biodiversity considerations where appropriate in CAISAR assessments, design, execution, and reporting.

10. *Ensure the biodiversity component of the CAISAR project provides for local, inclusive, capacity building where practical and appropriate.*

Deliverable: specific reference to opportunities for engagement of a broad cross section or local society in biodiversity-related initiatives and documentation of participants in same.

Key Deliverables

The main task of the International Climate Change Adaptation Biodiversity Specialist (CCABS) will be to provide discipline input to the Full Funding Proposal and the associated Annexes based on the guidance given in GCF's programming manual. With regard to biodiversity, the GCF programming manual highlights the following considerations:

1. *"The project/programme is expected to promote positive **environmental externalities** (e.g. air quality, soil)". The CAISAR biodiversity specialist is expected to help ensure the project delivers enhanced ecosystems services to the intervention area.*
2. *"Since project activities often target multiple areas and provide multiple benefits (e.g. co-benefits from improved agricultural productivity, **biodiversity conservation benefiting from improved ecosystems management**), additional financial contributions from other donors should be sought, where possible."*
3. *"The excessive development of land for agriculture worldwide has impacted the Earth's climate by reducing the carbon stored in intact forests, and has caused **biodiversity and ecosystem service losses**." The CAISAR biodiversity specialist is expected to strive to ensure the project results in a net improvement in local ecosystems services as a result of the project.*
4. *"As may be required by specific environmental and social safeguards, the Environmental and Social Policy and the Indigenous Peoples Policy, additional stand-alone assessment and management plans may need to be prepared and disclosed. Examples of additional instruments include: a resettlement policy framework, resettlement action plan, Indigenous peoples planning framework, Indigenous peoples plan, and **biodiversity action plan**"*

Consultant qualifications

Environmental specialist with a minimum Masters level degree in applied environmental science with expertise in biodiversity, biodiversity management and action plans, conservation biology and environmental planning. The consultant should have at least 10 years related experience, be comfortable working in a multi-disciplinary and cultural environment as well have working experience in South Asia. The consultant should have completed at least 5 previous biodiversity management plans and have recent experience with critical habitat assessment.

Duration: 60 working days from mid-June to mid-September 2023.

Location: Phnom Penh, Cambodia with field visits in lower Tonle Sap basin.

ANNEX 13: CAISAR CLIMATE CHANGE IMPACT RATIONALE

Project activity	Description and promotion strategy in the project	specific practice	adaptation or mitigation	Primary climate benefits	Climate rational (primary impact)	Climate rationale (secondary impact)	Climate co-benefits (mitigation, if primary is adaptation; adaptation, if primary is mitigation)	Other non-climate co-benefits
Component 2. Upgrading and climate-proofing water infrastructure for increased resilience								
Outcome 2.1. Modernization of irrigation scheme and ponds								
2.1.1. Technical analysis, field survey and preparing plan for system upgrading	This activity involves conducting a technical analysis and field survey of the existing irrigation system. The purpose is to identify areas that require upgrading or rehabilitation and to assess the feasibility of constructing new irrigation schemes and storage ponds. The promotion strategy will likely involve engaging farmers and stakeholders in the survey process to ensure a participatory approach. The	The specific practices under this sub-component include: Rehabilitating and upgrading existing irrigation schemes. Constructing new irrigation schemes and storage ponds where feasible and appropriate. Deploying ecosystem-based solutions that better serve the environment. Implementing energy-efficient measures to reduce greenhouse gas	The specific practices listed above include both adaptation and mitigation measures: Adaptation: Upgrading and modernizing irrigation systems, establishing early warning systems, and flood-proofing infrastructure to cope with increasing flood and drought conditions. Mitigation: Deploying	The primary climate benefits of these practices are: Improved resilience of the water delivery system, reducing damage to crops and infrastructure during extreme wet days and upstream flooding. Enhanced climate adaptation through climate-proofing measures, allowing the irrigation system to cope with changing climate conditions.	The climate rationale or primary impact is to ensure a climate-resilient water supply for farmers. The project aims to reduce the negative climate impacts of droughts, dry spells, and floods during the monsoon season by upgrading the irrigation system and implementing climate-adaptive measures.	The secondary impact is the creation of green opportunities and additional benefits, such as: Increased water availability for agriculture. Implementation of crop diversification and new income-generating activities like fish farming or duck breeding. Creation of employment opportunities, especially for young people. Time and labor savings, particularly for women, through the use of efficient irrigation technologies.	The Climate co-benefits include: Mitigation: Reduction of GHG emissions through the use of energy-efficient irrigation systems, solar pumping, and ecosystem-based solutions. Adaptation: Improved resilience of the water infrastructure, leading to climate adaptation and coping with extreme weather events.	The other non-climate co-benefits include: Increased agricultural productivity due to improved irrigation and water management. Economic benefits from crop diversification and income-generating activities like fish farming. Enhanced livelihoods through employment opportunities, especially for rural youth. Strengthening of institutional capacity and empowerment of Farmers Water User Communities (FWUCs) for sustainable

	findings from the analysis will be used to prepare a comprehensive plan for upgrading the irrigation system.	(GHG) emissions. Utilizing high-efficiency irrigation systems like drip and sprinkler irrigation to minimize water losses. Replacing current diesel pumps with single point solar pumping systems. Integrating nature-based solutions and indigenous materials for constructing flood protection embankments.	energy-efficient irrigation technologies, replacing diesel pumps with solar pumps, and utilizing nature-based solutions to reduce GHG emissions.					operation and maintenance of the irrigation system. oPromotion of sustainable water use practices and inclusive water rights arrangements. oReduction of energy consumption and potential cost savings through the use of renewable energy for pumping water. oEnhanced livelihoods through employment opportunities, especially for rural youth.
2.1.2.Implementation of infrastructure upgrading	Sub-Component 2.1.2 involves the actual implementation of infrastructure upgrading activities identified in the technical analysis and plan prepared in Sub-Component 2.1.1. The upgrading process may include rehabilitating existing irrigation systems,	Specific practices under this sub-component include: . Executing the rehabilitation and modernization plans for irrigation systems and infrastructure. . Constructing new irrigation schemes and storage ponds according to	The specific practices listed above are primarily adaptation measures aimed at: . Enhancing the resilience of the irrigation system to cope with increasing flood and drought conditions. . Reducing	The primary climate benefits of Sub-Component 2.1.2 are: oImproved climate resilience of the irrigation system, ensuring consistent water delivery to farmers. oMinimized damage to crops and infrastructure during flood and drought events.	The climate rationale or primary impact is to ensure a climate-resilient water supply for farmers by implementing infrastructure upgrades and modernization to withstand the impacts of changing climatic conditions.	The secondary impact is the creation of green opportunities and additional benefits, including: . Increased water availability for irrigation purposes. . Potential for crop diversification and income generation through alternative farming activities. . Employment opportunities, especially for young people involved in the implementation and maintenance of the upgraded infrastructure.	The Climate co-benefits include: oMitigation: Potential reduction in GHG emissions through the use of energy-efficient irrigation systems and eco-friendly construction techniques. oAdaptation: Improved climate resilience of the water infrastructure to	The other non-climate co-benefits include: . Increased agricultural productivity and yield due to improved irrigation facilities. . Strengthening of local water resources management for sustainable water use. . Potential cost savings through energy-efficient

	modernizing infrastructure, and constructing new irrigation schemes and storage ponds as required. The promotion strategy is likely to focus on engaging stakeholders, including farmers, in the implementation process to ensure their active participation and buy-in.	the prepared plans. Utilizing climate-proofing measures to enhance the resilience of the irrigation system against extreme weather events. Implementing engineering techniques and nature-based solutions to ensure the long-term sustainability of the upgraded infrastructure.	the damage and destruction of irrigation infrastructure during extreme weather events.				withstand extreme weather events.	and sustainable infrastructure. oEnhanced livelihoods and economic opportunities for farmers and rural communities. oEnhanced livelihoods and economic opportunities for farmers and rural communities.
2.1.3.Preparing canal O&M plans including application of ICT and SCADA for operation. The implementation will follow a participatory approach involving farmers right from survey, design, prioritization, and construction implementation. This	Sub-Component 2.1.3 involves the preparation of Operation and Maintenance (O&M) plans for the upgraded irrigation canals and systems. This includes integrating Information and Communication Technology (ICT) and Supervisory Control and Data Acquisition (SCADA) systems for efficient operation. The promotion strategy may	Specific practices under this sub-component include: oDeveloping comprehensive O&M plans for the upgraded irrigation canals. oIncorporating ICT and SCADA systems for real-time monitoring and control of water flow and distribution. oUtilizing modern	The specific practices listed above are primarily adaptation measures aimed at: oEnhancing the resilience of the irrigation system through efficient water management. oCoping with changing climate	The primary climate benefits of Sub-Component 2.1.3 are: oImproved water efficiency and reduced water losses through advanced monitoring and control systems. oIncreased climate resilience of the irrigation infrastructure through effective O&M practices.	The climate rationale or primary impact is to ensure the sustainable and climate-resilient operation of the irrigation system through the adoption of modern technologies and efficient water management practices.	The secondary impact includes: oEnhanced water resource management and allocation. oImproved agricultural productivity through optimized water distribution. oReduction of maintenance costs and increased system longevity.	The Climate co-benefits include: oMitigation: Reduction of water losses and energy consumption through efficient water management and the use of ICT and SCADA technologies. oAdaptation: Improved climate resilience of the irrigation infrastructure, which is essential for	The other non-climate co-benefits include: oIncreased agricultural productivity and crop yields due to optimized water supply. oCost savings through efficient water management and reduced maintenance needs. oEnhanced technical skills and capacity of personnel involved in O&M activities. oImproved overall

subcomponent will be financed by GCF, IFAD and Government. Moreover, these technologies will allow to save time and labour, especially for women, and offer opportunities to engage rural youth.	involve raising awareness among stakeholders about the benefits of adopting ICT and SCADA technologies to optimize water management and ensure effective maintenance.	technology to optimize water allocation and minimize water losses. oTraining personnel in the operation and maintenance of the new systems.	conditions and reducing vulnerability to extreme weather events.				coping with changing climate conditions.	sustainability and longevity of the irrigation system
Outcome 2.2: Flood-proofing and Drainage improvements								
2.2.1. Establish flood monitoring, information, and early warning systems.	Sub-Component 2.2.1 involves the establishment of flood monitoring, information, and early warning systems. This includes setting up mechanisms to monitor weather conditions, water levels, and other relevant data to detect potential floods. The promotion strategy may involve raising awareness about the	Specific practices under this sub-component include: oInstalling flood monitoring equipment and sensors in vulnerable areas. oSetting up a system to collect and analyze meteorological and hydrological data.	The specific practices listed above are primarily adaptation measures aimed at: oEnhancing disaster prevention and protection of farmlands and assets by providing early warnings to vulnerable communities	The primary climate benefits of Sub-Component 2.2.1 are: oImproved disaster preparedness and reduced vulnerability to flood events through early warning systems. oEnhanced ability to respond proactively to potential flood situations.	The climate rationale or primary impact is to strengthen flood preparedness and response capacities to cope with the increasing threat of floods under changing climate conditions.	The secondary impact includes: oReduction of damages to farmlands and assets due to improved flood protection measures. oEnhanced safety and well-being of vulnerable communities through timely flood warnings.	The Climate co-benefits include: oMitigation: Potential reduction in loss of life and property damage through early warning systems, which enable proactive evacuation and risk management. oAdaptation: Improved capacity to cope with climate-related	The other non-climate co-benefits include: oStrengthened disaster resilience and risk reduction capacities of local communities. oReduced economic losses due to improved flood preparedness and response.

	importance of early warning systems, training local communities to respond to flood warnings, and ensuring effective dissemination of flood-related information.	oDeveloping protocols for issuing flood warnings and disseminating information to affected communities.					flood events and protect vulnerable communities.	
2.2.2.Strengthening and construction of flood control and drainage infrastructure s. It will be implemented in an integrated manner with component 2.1 activities as required. The climate information and early warning activities will be strengthened as part of component 3 and are detailed in that section	Sub-Component 2.2.2 focuses on strengthening and constructing flood control and drainage infrastructures. The project will prioritize areas identified as flood-prone based on hydrological modeling and stakeholder consultation. The promotion strategy may involve community engagement and participation in the planning and implementation of flood control measures.	Specific practices under this sub-component include: oStrengthening existing drainage networks through excavation and widening. oConstructing new flood protection embankments using resilient indigenous materials and nature-based solutions. oInstalling sub-surface drainages in needy areas to improve water drainage.	The specific practices listed above are primarily adaptation measures aimed at: oEnhancing the resilience of the drainage networks and flood embankments to protect farmlands and assets from flood events.	The primary climate benefits of Sub-Component 2.2.2 are: oImproved flood protection and drainage infrastructure to minimize damages during flood events. oIncreased resilience of the system against intensifying flood threats under changing climate conditions.	The climate rationale or primary impact is to strengthen flood protection measures and improve drainage systems to cope with the increasing frequency and intensity of floods resulting from climate change.	The secondary impact includes: oEnhanced protection of agricultural lands and infrastructure from flood damages. oImproved water management and reduced flood-induced risks for farmers.	The Climate co-benefits include: oMitigation: Utilization of nature-based solutions and resilient materials in flood protection measures can contribute to carbon sequestration and reduce emissions compared to conventional methods. oAdaptation: Increased resilience of the irrigation system and farmlands against climate-induced flood events.	The other non-climate co-benefits include: oEnhanced protection of farmlands and rural communities from flood damages. oImproved drainage and water management, leading to increased agricultural productivity. oStrengthened local resilience and reduced economic losses due to improved flood protection measures

training of Farmers Water User Communities (FWUC)								
2.3.1. Formation of institutional strengthening of the FWUC	Sub-Component 2.3.1 focuses on forming and strengthening Farmers Water User Communities (FWUCs). FWUCs play a crucial role in the sustainable operation and maintenance of irrigation schemes. The promotion strategy may involve encouraging community participation, providing training in FWUC management, and promoting inclusivity in decision-making processes.	Specific practices under this sub-component include: oEstablishing new FWUCs and strengthening existing ones. oImproving capacities in O&M activities, water use efficiency, and green technology adoption. oEnhancing the arrangement of water rights and water allocation to promote equitable and sustainable water use.	The specific practices listed above are primarily adaptation measures aimed at: oStrengthening institutional capacity to effectively manage and operate the irrigation system. oPromoting sustainable water use practices and climate adaptation strategies among farmers.	The primary climate benefits of Sub-Component 2.3.1 are: oEnhanced sustainability and long-term operation of the climate-smart and climate-proof irrigation systems. oImproved capacity of FWUCs to cope with climate-related challenges and implement climate adaptation strategies.	The climate rationale or primary impact is to ensure the sustainable operation and maintenance of the irrigation system under changing climate conditions through the establishment and strengthening of FWUCs.	The secondary impact includes: oImproved water use efficiency and equitable water allocation. oIncreased capacity of farmers to adopt climate-smart practices and technologies.	The Climate co-benefits include: oMitigation: Adoption of green technologies and sustainable practices by FWUCs can contribute to reduced emissions and resource conservation. oAdaptation: Increased resilience of the irrigation system through effective management and climate adaptation strategies.	The other non-climate co-benefits include: oImproved water
2.3.2 Build technical capacities of FWUC for canal O&M	Sub-Component 2.3.2 focuses on building the technical capacities of Farmers Water User Communities (FWUCs) in canal operation	Specific practices under this sub-component include: oConducting technical training for FWUC members on	The specific practices listed above are primarily adaptation measures aimed at: oStrengthening the	The primary climate benefits of Sub-Component 2.3.2 are: oEnhanced climate resilience of the irrigation system through improved canal operation and maintenance. oIncreased	The climate rationale or primary impact is to empower FWUCs with the technical skills needed to effectively manage the irrigation system under changing climate conditions.	The secondary impact includes: oImproved water use efficiency and reduced water wastage. oEnhanced agricultural productivity through efficient water distribution.	The Climate co-benefits include: oMitigation: Efficient canal O&M can lead to reduced water losses and energy consumption, contributing to	The other non-climate co-benefits include: oStrengthened institutional capacity of FWUCs for sustainable irrigation system management. oImproved

	and maintenance (O&M). The project will provide training and support to FWUC members to effectively manage and operate the irrigation canals. The promotion strategy may involve conducting training sessions, workshops, and capacity-building programs for FWUC members to enhance their technical skills.	canal O&M. oEquipping FWUCs with the necessary knowledge and skills for efficient water distribution and maintenance. oImplementing best practices in water resource management.	capacity of FWUCs to cope with changing climate conditions and efficiently manage water resources.	efficiency in water distribution, reducing water losses during irrigation.			lower emissions. oAdaptation: Increased climate resilience of the irrigation system through improved management practices.	livelihoods and agricultural productivity for farmers.
2.3.3prepare long term financing plan for WUAS. This will require an identification of the capacity needs, membership, functionality of the FWUCs in the area . This will be followed by assisting them in developing a business model for the	Sub-Component 2.3.3 involves preparing a long-term financing plan for Water User Associations (WUAs). This plan will outline the financial resources required for the sustainable operation and maintenance of the irrigation system. The promotion strategy may involve working with relevant	Specific practices under this sub-component include: oIdentifying the financial needs of WUAs for irrigation system operation and maintenance. oAssessing the willingness and ability of WUAs to pay for irrigation services. oDeveloping a regulatory framework for water fee collection.	The specific practices listed above are primarily adaptation measures aimed at: oEnsuring the long-term sustainability of the irrigation system by securing adequate financial resources.	The primary climate benefits of Sub-Component 2.3.3 are: oIncreased financial resilience of WUAs to cope with climate-related challenges in the operation and maintenance of the irrigation system. oEnhanced capacity to sustainably manage the irrigation infrastructure under changing climate conditions.	The climate rationale or primary impact is to develop a long-term financing plan that enables WUAs to effectively manage and maintain the irrigation system in the face of climate-related risks.	The secondary impact includes: oImproved financial sustainability of the irrigation system. oEnhanced capacity of WUAs to invest in climate-resilient infrastructure and technologies.	The Climate co-benefits include: oMitigation: Financially sustainable WUAs are more likely to invest in efficient and climate- friendly irrigation technologies, leading to reduced emissions. oAdaptation: Increased resilience of WUAs to climate impacts through secure and sustainable	The other non-climate co-benefits include: oStrengthened institutional capacity of WUAs for effective water resource management. oImproved reliability and performance of the irrigation system. oEnhanced livelihoods and economic opportunities for farmers due to efficient water use and agricultural

operation and maintenance of each irrigation scheme on a self-sustaining basis in partnership with the private sector. This will entail the development plan for the infrastructure investments, assessment of the willingness and ability of the users to pay for the services and a regulatory framework that gives the WUAs the authority to collect the fee and assess the basis on which water fee will be paid as Irrigation fees can be based on the size of the land being irrigated or the volume of water used.	stakeholders, including private sector partners, to develop a financially viable plan.						financing.	productivity.
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These elements will be further reviewed during the preparation of the FFP.								

ANNEX 14 – INDIGENOUS PEOPLES PLANNING FRAMEWORK

Abbreviations

CAISAR	Climate Adaptive Irrigation and Sustainable Agriculture for Resilience
COI	Corridor of Impact
DDIS	Detailed Design Implementation and Supervision
EA/IA	Executing Agency/Implementing Agency
ESCP	Environmental and Social Commitment Plan
ESF	Environmental and Social Framework
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ESO	Environmental and Social Officers
ESS	Environmental and Social Standards
FPICon	Free Prior and Informed Consultation
IDA	International Development Association
ILO	International Labour Organization
IP	Indigenous People
IPP	Indigenous Peoples' Plan
IPPF	Indigenous Peoples Planning Framework
MoWRAM	Ministry of Water Resources and Meteorology
MoSALVY	Ministry of Social Affairs, Labor, Vocational Training and Youth Rehabilitation
NCDD	National Committee for Sub-National Democratic Development
NGO	Non-Government Organization
PDWRAM	Provincial Department of Water Resources and Meteorology
PMU	Project Management Unit
PIU	Project Implementation Unit
PPC	Project Preparation Consultants
RGC	Royal Government of Cambodia
RP	Resettlement Plan
RPF	Resettlement Planning Framework
SA/SIA	Social Assessment/ Social Impact Assessment
SEA	Sexual Exploitation and Abuse
SEP	Stakeholder Engagement Plan
SH	Sexual Harassment
SIB	Subproject Information Booklet
VAC	Violence Against Children

Definitions

Disadvantaged individuals/groups

Refers to individuals or groups who, due to certain own circumstances such as their age, gender, disabilities, health, economic and ethnic status, and so forth, are more likely affected adversely by the project impacts and/or more limited in their ability to take advantage of project benefits. Disadvantaged individuals/groups are more likely excluded from, or unable to participate fully in the mainstream consultation process. Thus, they may require specific assistance to stay engaged during project planning and implementation. In this project, disadvantaged individuals/ groups are defined as those who have the following characteristics: i) from an ethnic group, (ii) landless/ limited productive land, (iii) female headed household with dependents, (iv) frequent lack of male labor at home (e.g. migrant workers); (v) jobless, or limited economic opportunities; (vi) family member(s) with chronic illness, or disabilities; (vii) elderlies who live on their own; (viii) youth, particularly very young couple with children (early marriage), (ix) live in an especially difficult circumstance, and (x) don't meet above criteria but are concurred by local community as vulnerable to poverty and need project's support to reduce their vulnerability. Disadvantaged individuals are usually from a poor, or a near poor household.

Environmental and social risk

Environmental (including climate change and natural disasters) and social risks are determined by a combination of project design and operational characteristics, together with exogenous factors, which: (i) may adversely affect the ability of a project to achieve and sustain its development objective(s); and (ii) define the nature, scale and significance of direct and indirect environmental and social impacts.

Free, Prior and Informed Consent (FPIC)[¶]

According to IFAD's SECAP, Standard 4 establishes the following requirements in relation to FPIC:[¶]

IFAD will ensure that FPIC is applied in all projects affecting indigenous peoples that: (i) may have an impact on the land access and use rights of rural communities; and (ii) target indigenous peoples or rural areas that are home to indigenous peoples. Engagement with indigenous peoples will be undertaken in good faith, in a culturally appropriate manner and with full regard to these peoples' institutions, governance systems, customs and methods of decision-making. Each borrower/recipient/partner is responsible for seeking FPIC as part of the consultation process with indigenous peoples. [¶]

Free, Prior, and Informed Consultation (FPICon)

According to ESS 3 of AIIB's ESF, FPICon is established as follows:

- The scope of FPICon applies to project design, implementation arrangements and expected outcomes related to risks to, and impacts on, the affected Indigenous Peoples;
- FPICon builds on the process of meaningful consultation and requires good faith negotiation between the Client and the affected Indigenous Peoples;
- The Client documents: (a) the details of the process by which the support of the affected local indigenous communities will be determined, in a written consultation process agreement with these communities; and (b) the details of the Project-related matters on which their broad community support has been obtained, in a consultation statement, which includes all agreements reached as well as dissenting views; and
- FPICon does not require unanimity and may be achieved even when individuals or groups within or among these affected Indigenous Peoples explicitly disagree with support for the Project.

Inclusion

Inclusion means empowering all people to participate in, and benefit from, the development process. Inclusion encompasses policies to promote equality and nondiscrimination by improving the access of all

people, including the poor and disadvantaged, to services and benefits such as education, health, social protection, infrastructure, affordable energy, employment, financial services and productive assets. It also embraces action to remove barriers against those who are often excluded from the development process, such as women, children, persons with disabilities, youth and minorities, and to ensure that the voice of all can be heard.

Indigenous Peoples

According to the AIIB's Environment and Social Framework, the term "Indigenous Peoples" is used in a generic sense to refer exclusively to a distinct social and cultural group possessing all the following characteristics – in varying degrees:

- Self-identification as members of a distinct indigenous social and cultural group and recognition of this identity by others; and
- Collective attachment⁴ to geographically distinct habitats, ancestral territories, or areas of seasonal use or occupation, as well as to the natural resources in these areas; and
- Customary cultural, economic, social, or political institutions that are distinct or separate from those of the mainstream society or culture, and
- A distinct language or dialect, often different from the official language or languages of the country or region in which they reside.

According to IFAD's SECAP, IPs are defined as follows:

- Priority in time, with respect to occupation and use of a specific territory;
- The voluntary perpetuation of cultural distinctiveness, which may include aspects of language, social organization, religion and spiritual values, modes of production, laws and institutions;
- Self-identification, as well as recognition by other groups, or by state authorities, as a distinct collectivity; and
- An experience of subjugation, marginalization, dispossession, exclusion or discrimination.

According to GCF's Indigenous People Policy, IPs are defined as follows:

- Self-identification as members of a distinct indigenous social and cultural group and recognition of this identity by others;
- Collective attachment to geographically distinct habitats, ancestral territories, or areas of seasonal use or occupation as well as to the natural resources in these areas;
- Customary cultural, economic, social, or political systems that are distinct or separate from those of the mainstream society or culture; and

⁴ Collective attachment means that for generations there has been a physical presence in and economic ties to land and territories traditionally owned, or customarily used or occupied, by the group concerned, including areas that hold special significance for it, such as sacred sites.

- A distinct language or dialect, often different from the official language or languages of the country or region in which they reside. This includes a language or dialect that has existed but does not exist now due to impacts that have made it difficult for a community or group to maintain a distinct language or dialect.

Information disclosure

The process of disseminating project information to stakeholders to allow them to understand the risks and impacts of the project, and potential opportunities. Information disclosure should be in line with the project's Stakeholder Engagement Plan which is in line with the requirements of the ESF of AIIB, SECAP of IFAD, and Information Disclosure Policy of GCF. It is required that the disclosure of project information include: (a) purpose, nature and scale of the project; (b) duration of proposed project activities; (c) environmental and social risks and potential impacts of the project on local communities, particularly the vulnerable/disadvantaged groups and proposed mitigation measures; (d) proposed stakeholder engagement process highlighting approach that will be taken to promote meaningful participation of project affected persons; (e) time and venue of proposed public consultation meetings, and the process by which meetings will be notified, meeting results summarized, and reported back to project stakeholders; and (f) process and means by which grievances can be received and addressed timely.

Meaningful consultation

Two-way process that (a) begins early in project planning process to gather initial views on project proposal and inform project design; (b) encourages stakeholder feedback, particularly as a way of informing project design and engagement by stakeholders in the identification and mitigation of environmental and social risks and impacts; (c) continues on an ongoing basis, as risks and impacts arise; (d) is based on prior disclosure and dissemination of relevant, transparent, objective, meaningful and easily accessible information in a timeframe that enables meaningful consultation with project stakeholders in a format culturally appropriate, and in relevant local language(s) and is understandable to stakeholders; (e) considers and responds to feedback; (f) supports active and inclusive engagement with project-affected parties; (g) is free of external manipulation, interference, coercion, discrimination, and intimidation; and (h) is documented and disclosed by the Government.

Vulnerable individuals /groups

Refers to individuals/groups who, by virtue of factors beyond their control, are: (a) more likely to be adversely affected by the Project's environmental and social impacts; (b) more likely than others to be limited in their ability to claim or take advantage of Project benefits. Such individuals or groups are also more likely to be excluded from or unable to participate fully in the mainstream consultation process and may require specific measures or assistance (or both) to do so.

Based on the results of the vulnerability assessment conducted for the project, vulnerable individuals/groups need differentiated mitigation measures to cope with project's adverse impacts (e.g. loss of productive land/ income source), take advantage of project's intended benefits, and fully participate in meaningful consultation process during project design, implementation, and operations. Therefore, under this project, the following groups are considered vulnerable under this project: (i) poor⁵ and near-poor⁶, (ii) female headed households with dependents; (iii) households from Indigenous Peoples

⁵ The poor are those who a) live below the poverty line (which is KHR 10,951 per person per day as defined by the World Bank for Cambodia), or b) have IDPoor 1 (very poor) or IDPoor 2 (poor).

⁶ The near-poor are those whose daily per capita consumption lies between poverty line and 1.25 times the poverty line – as

or Ethnic Minority group that meet the definitions of Indigenous Peoples of AIIB, IFAD, and GCF, (iv) households headed by an elderly, or a disabled person with no regular income, (v) household having at least a family member with chronic illness that needs regular medical treatment.

proposed by the World Bank. Near-poor households also have not only lower income per capita but also less diversified incomes than non-poor households (cf. WB 2022, Cambodia Poverty Assessment – Toward A More Inclusive and Resilient Cambodia).

Executive Summary

This Executive Summary summarizes the main points in the project's Indigenous Peoples Planning Framework (IPPF) which was prepared by the Ministry of Water Resources and Meteorology. This IPPF will be applied to all activities that will be carried out under the CAISAR. This IPPF is a living document which may be updated as required during project implementation. If updated, the latest IPPF version will be disclosed through the same channels.

Project Development Objective and Project Components

The project objective is to increase climate adaptation, mitigate the negative impact of extreme climate events, and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces: Pursat, Kampong Chhnang, Kampong Speu, and Kandal.

The project will be implemented through various activities organized through the following three components:

- Component 1. Improving farm-level climate adaptation, resilience, and water use efficiency
- Component 2. Upgrading and climate-proofing water infrastructure for increased resilience
- Component 3. Institutional strengthening

Purpose of the Indigenous Peoples Planning Framework

This framework is a guide to screening, assessment, and planning, including an arrangement of the outline of culturally appropriate and meaningful consultations with Indigenous peoples, conducting social impact assessments (SIA) and preparation of the IPP that pertains to any specific subproject. The purpose of this Indigenous Peoples Planning Framework (IPPF) is to set out the requirements of the AIIB's ESS3 on Indigenous Peoples and the IFAD's SECAP Standard 4, and the RGC's policy on development of Indigenous Peoples. Based on the gaps between the AIIB's ESS3, IFAD's SECAP Standard 4, and RGC's policies, measures are proposed to close the gaps through implementation arrangements, procedures, design criteria, etc. to be applied to all subprojects and project components that were confirmed during project preparation and will be identified during project implementation.

Gaps between National Policies & Donor's Environmental and Social Policies

Despite the fact that Cambodia has a policy that recognizes the rights of IPs to culture, education, justice, health, environment, land, agriculture, water resources and infrastructure among others, there are no decrees, sub-decrees or procedures for specific safeguards to protect the interest of IPs, other than those related to land or forestry. The Cambodia Land Law does recognize the right of indigenous communities in Cambodia to own immovable property - their land - with collective title. However, in practice, the procedure to register collective title can be very time consuming and only a few indigenous communities have received collective title since the Land Law was enacted in 2001. Similarly, the Forest Law also guarantees and recognizes the right of IPs to continue the use and access to certain forest areas that they traditionally use and practice.

Overall, there is an acceptable level of consistency between the government system, the AIIB's ESS and the IFAD standards on IPs. The self-identification process of indigenous communities defined in the national

policy is broadly consistent with international good practice. The national framework does not exclude communities who have become more mainstream, and indigenous communities may apply for legal status regardless of whether or not they still use their own language or practice traditional agriculture.

However, while there are some complementary links between Cambodian laws and regulations related to IPs and the ESS 3, there are no sufficiently detailed regulations or operating procedures to facilitate full implementation of the IPPs. Therefore, this IPPF has been prepared on the basis of the ESS 3 by considering relevant Cambodian policies and regulations. The IPPF also outlines the Grievance Redress Mechanism (GRM), based on the GRM that is used for the Project, which will need to be further refined in consultation with IPs, if any are found to be residing at any subproject sites.

Project's Environmental and Social Risk and Impacts

The project will bring about an overall positive impact to local farmers. In subproject where IP peoples have farmland in the command area, these IPs will benefit from improved irrigation, water supply, government's agricultural extension services, and services from local farmers' cooperatives. As IPs participate in project activities, particularly agricultural extension services, they can grow more crops, participate in value chain, increase income, and eventually improve their livelihoods. Reliable water access and promising farming opportunities thanks to improved irrigation and extension services also keep the poor, including the poor IPs, from migrating to other areas in search for income generation opportunities. Adverse impacts on IPs are foreseen. However, these impacts are mostly local, small-scaled, such as minor land acquisition in some subproject to allow construction of irrigation canal. Land impacts would be very small at household level (e.g. loss of strip of land) which would not affect the livelihoods of the IP remarkably.

During subproject construction and operation, there are a number of environmental and social risks that may apply to local people, including IP peoples who may happen to be present in a subproject area. Environmental and social risks and impacts that have been identified during project preparation have been discussed in consultation meetings with a) IP peoples who are present in subproject area, and b) other project stakeholders at commune, district, provincial and central level. These consultations aim to ensure potentially affected people, and relevant project stakeholders, are aware of such risks and stay engaged during subproject preparation and implementation for risk prevention and mitigation (Please see full list of social and environmental risks in the project's ESCMF (Section E&S Risks and Impacts) that may apply to any ethnic minorities who are present in subproject area. See also SEP, particularly section (Proposed Strategy for Consultation with Vulnerable/Disadvantaged Groups) for guidance on conducting consultation with IPs when IPs are present in the subproject area.

Mitigation Measures

Although above risks and impacts will be validated, and assessed at further length when subproject locations become known, IP(s) in a subproject's area may be affected disproportionately compared to the mainstream group. The distinctive cultural and socioeconomic characteristics of the IPs, including their existing livelihoods, etc. may expose IPs to further risks and impacts, increase their vulnerability and compromise their ability to respond to such risks and impacts – if a holistic approach is not in place. Effective communication, such as IEC, and active participation of involved IPs, are among important factors that contribute to effective engagement of IPs for meaningful consultation during subproject preparation and participatory monitoring during subproject implementation. The coordination of project stakeholders, including PMU, Contractors, local authorities, local agencies, local service providers, and

most notably the active and full participation of IPs, collectively contribute to minimizing identified risks and potential impacts at identified subprojects.

Detailed mitigation measures for the above risks and potential impacts are proposed in the project's ESCMF. These mitigation measures are specific for design stage, pre-construction stage, construction stage, and operation stage,

Purpose of Engaging IP during project preparation and implementation

The AIIB's ESF defines stakeholder engagement as a process of identifying relevant stakeholders, conducting stakeholder analysis, and organizing a series of consultations to meet with project stakeholders for collecting stakeholders' feedback and concerns on project's risks and impacts, as well as stakeholders' development needs in relation to project purposes and activities. This aims to ensure the project's adverse impacts on IPs can be avoided, or minimized and mitigated if avoidance is not possible. For this project, it is important that IPs need to be consulted on their development needs (in relation to project purposes) to ensure they can receive socioeconomic benefits that are appropriate to them culturally.

Information Disclosure

Prior to conducting consultations, MoWRAM will notify the concerned IPs of the consultation plan during preparation. MoWRAM will provide affected IPs with initial subproject information in the form of booklet in both Khmer and local language (if applicable). This initial information should be provided to IP at least two weeks prior to consultation. If the concerned IPs do not have a written language, the IP will be provided the information in Khmer and are explained verbally in the local language of the concerned IP to ensure the IP are fully informed of the consultation purpose and initial subproject information.

For public consultation, the draft IPPF (in English) and its Executive Summary (in Khmer) was (should be?) disclosed on MoWRAM's website on XXX (<https://www.>). The Executive Summary (in Khmer) was also disclosed in hard copy at MoWRAM's public library in Phnom Penh, and in the offices of Provincial Departments of Water Resources and Meteorology in all four project provinces. Once finalized, the IPPF will be re-disclosed again through the above channels prior to AIIB's and IFAD's project appraisal. The draft and final IPPF will be disclosed in English on the AIIB's and IFAD's website.

During project implementation, all draft IPPs, once completed by MoWRAM and submitted to the Bank for review, shall be disclosed to affected IP communities in Khmer language. The summary of the IPP (in the form of an Information Booklet) will be translated into IP's language if the consulted IPs have their own written language. Public meetings will be hold with the affected IP(s) to explain the contents of the relevant IPP in their mother language to ensure affected IPs understand what and how the activities under the IPP will be carried out, including E&S risks and impacts of subproject activities, and how the IPs will be engaged by MoWRAM in consultation meetings during subproject preparation, and in monitoring during subproject implementation to minimize identified E&S risks and impacts. IPPs – prepared for relevant subprojects, will be disclosed locally in Khmer and local IP language (if applicable), as well as in Khmer and English language on MoWRAM's website. The English version of the IPPs will be disclosed on the AIIB's and IFAD's website.

Grievance Redress Procedures

The following section outlines complaint handling procedures that are designed to assist affected Indigenous Peoples (IPs) in making complaints regarding the project. These procedures are designed to

address potential impacts and risks during project preparation and cover the following key areas: a) land acquisition, where individual IP land is acquired either permanently or temporarily during construction, b) Gender based violence, where IPs are victims, survivors, witnesses, or otherwise affected by SEA/SH actions related to the project, and c) general complaints and concerns related to project design, adverse impacts on IPs such as dust, noise, vibration, and any other aspects that IPs attribute to project activities.

Implementation Arrangements

The MoWRAM will be responsible for implementing this IPPF. The Project Director (PD) at MoWRAM will be responsible for providing overall guidance, policy advice, conducting internal coordination, discussing and resolving issues at project level – in association with relevant government agencies where needed. The Project Manager (PM) at MoWRAM will provide day-to-day support to the PD and will be responsible for ensuring that the IPPF will be followed. The PM will oversee the work of the ESOs and ensure proper screening of IP groups will be carried out for each subproject, and steps for IP screening and social assessment described in this IPPF are followed. Within MoWRAM, the ESOs will be responsible for carrying out day-to-day activities set forth in this IPPF. An IP specialist will be appointed within MoWRAM's PMU (in addition to a Resettlement and Environmental Specialist) to provide guidance to Provincial PDWRAM in conducting consultation with affected IP in respective subprojects.

The MoWRAM needs to inform the AIIB and IFAD of the IP screening results and steps that MoWRAM will take in case IPs are present in the subproject area. When IPs are found in the subproject, MoWRAM will engage IP consultants to work closely with PMU's IP Specialist and PDWRAM to conduct Social Assessment and prepare IPPs. PMU's IP specialist and IP consultants will visit the subproject sites and work closely with PDWRAM, local authorities, relevant agencies, NGOs, particularly local IP leaders and IP members, including vulnerable groups of affected IP communities, to conduct Social Assessment.

Capacity Building

Since the MOWRAM is new to AIIB's ESF and IFAD's SECAP, and have not been familiar with requirements of AIIB's ESS3 and IFAD's SECAP Standard 4, they may not be able to conduct meaningful consultation from initial years of project implementation. In the first year, these specialists will be trained by the AIIB task team on ESF with a particular focus ESSs and IFAD's SECAP with a particular focus Standard that apply to this project to enable newly appointed ES specialists at the MOWRAM to provide appropriate support. Where needed, IP consultant will be engaged to provide additional support to PMUs' specialist, particularly in the initial years of project implementation. Since independent ES monitoring consultant will be engaged by PMU at MoWRAM, feedback from this consultant, alongside internal monitoring results, will provide regular feedback to PMU on how IPPF/IPP is carried out so that adjustment/improvement could be made appropriately and timely.

Monitoring & Evaluation

The application of this IPPF and preparation and implementation of subproject IPPs will be monitored internally by the MoWRAM. Adverse impact on IPs (if any) due to land acquisition will be monitored by GDR and MoWRAM as part of implementation arrangement set forth in Section 9.1.2 of project's Resettlement Planning Framework (RPF).

Within MoWRAM, the ESOs or the Detailed Design Implementation and Supervision (DDIS) will be responsible for conducting quarterly monitoring activities of the activities set for under all subproject IPPs. Monitoring of IPPF/IPP implementation will focus on assessing the compliance of IPP implementation against the followings:

- IP screening process and results;
- Quality of Social Assessment and adequacy of IPPs prepared based on SAs;
- Information disclosure;
- Functioning of project's GRM (as customized to the respective IP groups present in each subproject area to ensure the GRM is culturally appropriate to the local IPs);
- Development activities carried under IPPs (based on development needs of IPs);
- Results and impacts of IPPs (in ensuring the affected IP receive socioeconomic benefits of the project that is culturally appropriate, gender and intergenerational inclusive, and contributing to achieving the objective of the AIIB's ESS3 and IFAD's SECAP Standard 4).

In addition to internal monitoring, the project will encourage IPs in subproject areas to participate in monitoring and evaluation of IPP implementation process and implementation outcome which affects them. During SA exercise, feedback and suggestions from IPs will be solicited as to how they wish to participate in monitoring and evaluation of IPP activities.

MoWRAM will provide a quarterly IPP implementation report to the AIIB and IFAD. These results will be incorporated into MoWRAM's consolidated Environmental and Social Compliance Report (ESCR) (See Annex 5 for Indicative Indicators for Internal Monitoring of IPP implementation).

Reporting

MoWRAM's ESOs will ensure feedback from affected and interested IP, as well as grievances submitted by affected IPs, are resolved timely and effectively, and that resolution results are reported timely back to the aggrieved IPs. The method of reporting back depends on the stakeholders, and as follows:

- For stakeholders at national level, email and/or official letter will be used to report back to stakeholders following consultations and/or workshops. The content of the report will summarize what comments, suggestions, concerns that have been received, by whom and when, and how such comments, suggestions, concerns were considered.
- For stakeholders at local level, follow-up meetings/consultations will be conducted to informed stakeholders know on how comments, suggestions, concerned were considered.
- For Indigenous Peoples, project's responses to their comments, suggestions, concerns are reported back to them in subsequent face-to-face consultations – in line with the project's SEP and the IPPF, including how the project had considered and addressed their concerns through concrete actions to be carried out during subproject implementation process and through IPP implementation.

Grievances of all project IP will be reported back to them through project's GRM channels within the timeframes specified for each step of the above GRM procedure.

Costs

Indicative costs for IPPF implementation are estimated during project preparation for the purpose of budget planning. The actual costs of IPPF implementation depend on the number of IPPs, including scope and activities to be carried out under each IPP, during project implementation. The estimated cost below may be updated once the list of subprojects is finalized. Costs incurred as compensation payment for land

acquisition and associated impacts are covered by counterpart funds and are estimated in the project's Resettlement Planning Framework (RPF).

Budget

The budget for implementing IPPF/PPPs will be allocated from counterpart funding. Implementation, based on infrastructure construction subprojects that will be identified/confirmed during project implementation, this budget plan will be updated to ensure funding is sufficiently planned annually to ensure timely and effective activities in Figure below.

1. INTRODUCTION

1.1 Project Background

1.1.1 Project Context

Cambodia's irrigated agriculture faces increasing challenges from adverse impacts of climate change, especially the changes in rainfall patterns, duration and timing of the rainy season, and climate induced water disasters such as floods and droughts. Climate Resilient (CR) and low emission practices and investments in agriculture and water management are therefore crucial to protect and enhance Cambodia's agricultural production and productivity which will in turn contribute to poverty reduction and increased food security.

Addressing the complex impacts of climate change on rain fed and irrigated agriculture requires action at both farm and irrigation scheme, including enabling environment at regional and national level. Farm level actions will help communities adapt to climate change while also saving water and decreasing GHG emissions from BAU of agriculture, water use and management. This will help farmers to diversify their farming while also addressing changing rainfall patterns and increasing drought conditions throughout the growing season. Actions at system level will help achieve a modernized and climate proofed irrigation infrastructure delivering irrigation services to farmers in line with the requirements at the farm level. It will also protect the natural capital stocks, especially the land and water against the increasing threats of flood. In addition, replacement of diesel pumps with solar pumps and combination of both grey and green solutions for irrigation modernization and flood proofing works will help reduce GHG emissions.

The integrated actions combining both farm and system levels has a transformative potential to reduce vulnerability of water and agriculture systems to climate change impacts while also reducing GHG emissions and enhancing the livelihood of rural populations who primarily depend on agriculture.

The theory of change demonstrates how the project shifts the BAU from poorly constructed and maintained irrigation systems to a smart, climate resilient water management system with climate proofed irrigation and flood control infrastructures for smallholder farmers. The project's outcomes and outputs are in-line with GCF's adaptation and mitigation goals, objectives, and long-term sustainability principles.

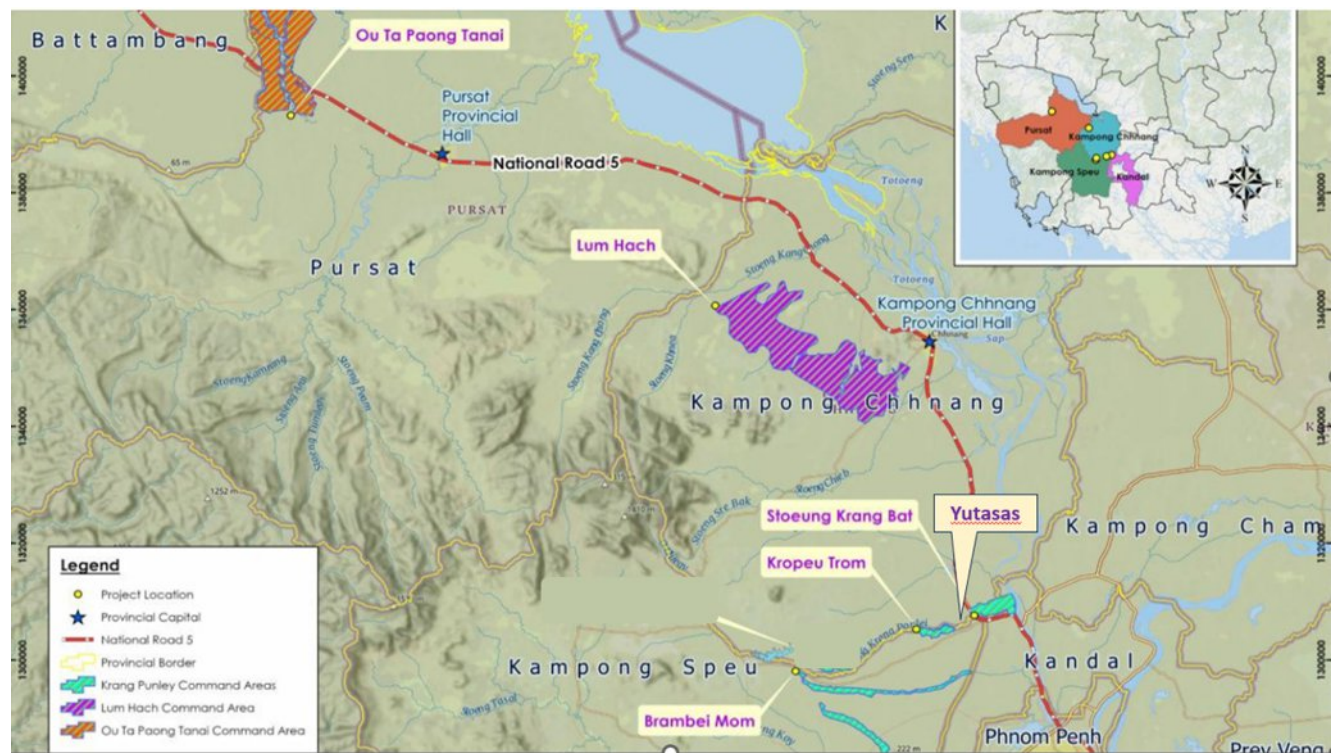
The paradigm shifting aspects of the project will include the data driven climate-proofing of irrigation infrastructure and focus on last-mile engagement of vulnerable communities. The TOC shows that IF climate resiliency of irrigated agriculture is enhanced then the agricultural outputs and income of small-scale farmers will increase, as well as the climate resilience of vulnerable households and in particular to women will increase because water and food systems are less vulnerable to increasing temperatures, changing rainfall patterns and the extreme water events, AND low-emission irrigation and sustainable agriculture adaptation practices will contribute to NDC mitigation targets.

The project's goal stated above shall be achieved through the generation of the following three outcomes: (1) Improved resiliency of small holder farmers (2) Resilient water control infrastructure and water service delivery with less crop and asset damage and (3) Reduced GHG emission. These three outcomes are derived from interventions at farm and irrigation system level together with institutional strengthening of relevant stakeholders (MoWRAM, NCDD, MoF, and MAAF) and will contribute towards an irrigated agricultural system that is climate resilient and productive ultimately reducing the climatic vulnerability of poor farmers in the project areas.

1.1.2 Project Development Objective and Project Components

The project objective is to increase climate adaptation, mitigate the negative impact of extreme climate events, and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces of Cambodia in Kampong Speu, Kampong Chhnang, Kandal, and Pursat province (see map below).

Figure 2 – Map showing six irrigation schemes located in four provinces



The project will be implemented through various activities organized through the following three components:

- Component 1. Improving farm-level climate adaptation, resilience, and water use efficiency
- Component 2. Upgrading and climate-proofing water infrastructure for increased resilience
- Component 3. Institutional strengthening

1.2 Objectives and Principles of the Indigenous Peoples Planning Framework

1.2.1 Objectives

This Indigenous Peoples Planning Framework (IPPF) is prepared in case the project is affect any Indigenous Peoples. This framework guides screening, assessment, and planning, including an arrangement of the outline of culturally appropriate and meaningful consultations with Indigenous peoples, conducting social impact assessments (SIA), and preparing the IPP for any specific subproject. This IPPF is prepared in accordance with the requirements of the AIIB's ESS3 on Indigenous Peoples and the IFAD's SECAP Standard 4, and the RGC's policy on development of Indigenous Peoples. Based on the gaps between the AIIB's ESS3, IFAD's SECAP Standard 4, and RGC's policies, measures are proposed to close the gaps through implementation arrangements, procedures, design criteria, etc. to be applied to all subprojects and project components that were confirmed during project preparation and will be identified during project implementation.

The objectives of this IPPF are:

- Ensure the Project is designed and implemented in a way that fosters full respect for Indigenous Peoples' identity, dignity, human rights, economies and cultures, as defined by the Indigenous Peoples

themselves, so that they a) Receive culturally appropriate social and economic benefits; b) Do not suffer adverse impacts as a result of Projects; and c) Can participate actively in Projects that affect them.

In particular, IPPF aims to subproject's activities:

- Avoid adverse impacts of the project on IP communities. When avoidance is not possible, minimize, mitigate and/or compensate for such impacts.
- Promote sustainable development benefits and opportunities for IP communities in a manner that is accessible, culturally appropriate and inclusive.
- Improve subproject design and promote local support by establishing and maintaining an ongoing relationship based on meaningful consultation with the IP communities affected by CAISAR throughout project cycle.
- Recognize, respect and preserve the culture, knowledge, and practices of IP communities, and provide IPs with an opportunity to adapt to changing conditions in a manner and in a timeframe acceptable to them.

1.2.2 Principles

To achieve the above mentioned objectives, the following principles will be observed – at subproject level:

- a) Early screening to determine IP presence and/or collective attachment to the Project area as well as potential impacts on IPs.
- b) Conduct of culturally appropriate, gender-sensitive and technically backed-up social impact assessment where full consideration to IP-generated options as regards benefits and mitigation measures are considered and translated into the IP plans.
- c) Undertake meaningful consultations with affected IP communities and concerned organizations to solicit their participation across the subproject cycle to avoid adverse impacts or in cases when avoidance is not possible, to minimize, mitigate, or compensate for such effects by establishing culturally appropriate and gender inclusive capacity development modalities and grievance mechanisms.
- d) Ensure free, prior and informed consent of affected IP communities to project activities that may introduce commercial development of cultural resources and indigenous knowledge, physical displacement from traditional or customary land, and commercial development of natural resources within customary lands that impact on livelihoods or cultural uses that define the identity and community of IPs. Consent refers to a collective expression by affected IP communities, through individuals and/or their recognized representatives, of broad community support for Project/project activities even if some individuals or groups object.
- e) Avoid restricted access to and physical displacement from protected areas and natural resources but when not possible, ensure that affected IP communities participate in all aspects of the subproject cycle and that their benefits are equitably shared.
- f) An IPP will be prepared that is based on the social impact assessment with the assistance of qualified and experienced experts that draw on indigenous knowledge through consultation with affected IP communities. The IPP will include a framework for continued consultation with the affected IP communities during project implementation; specifies measures to ensure that IPs receive culturally

appropriate benefits; identification of measures to avoid, minimize, mitigate, or compensate for any adverse project impacts; culturally appropriate grievance procedures; M&E arrangements, and a budget and time-bound actions for implementing the planned measures.

- g) The draft IPP after approval by the AIIB is disclosed including documentation of the consultation process and the results of the social impact assessment in a timely manner and made available in an accessible place and in a form and local languages understandable to affected IPs communities and other stakeholders. The final IPP and its updates will also be disclosed to the affected IP communities and other stakeholders.
- h) Prepare an action plan for legal recognition of customary rights to lands and territories or ancestral domains when the project involves (i) activities that are contingent on establishing legally recognized rights to lands and territories that IPs have traditionally owned or customarily used or occupied, or (ii) involuntary acquisition of such lands.
- i) Monitor implementation of the IPP using qualified and experienced experts; adopt a participatory monitoring approach, wherever possible; and assess whether the IPP's objective and desired outcome have been achieved, considering the baseline conditions and the results of IPP monitoring and disclose the monitoring report.

2. LEGAL FRAMEWORK

2.1 Overview

Over 97 percent of Cambodia's population belongs to the Khmer ethnic group, while the remainder comprise a range of ethnic groups, including Chams (predominantly Muslim), ethnic Vietnamese, ethnic Chinese, and indigenous Khmer Loeu (hill-tribes). Amongst the non-ethnic groups, only the hill-tribes are categorized as IPs by the government. There are also isolated villages Cham (Muslim) communities that are non-Khmer ethnic groups, but they are generally well assimilated in Khmer society and not recognized as IPs.

2.2 National Laws and Regulations Related to Indigenous Peoples

Cambodia has a number of laws and policies that protect the rights of local communities, including IPs. Since the IPs have strong ties to the land and natural resources, the Land Law (2001) is the most significant for them because it sets out the basis for their rights to land. Article 25 provides for the collective ownership of land, while Article 26 recognizes the role of traditional authorities, mechanisms and customs in decision-making and exercising ownership rights. The subsequent Policy and Sub-decree for Indigenous Peoples Registration of Collective Land Rights sets the incorporation of the community as a legal entity as a condition for receiving a collective title. National policies applicable to the indigenous peoples include:

Cambodia Constitution (1993). Article 31 stipulates that Khmer citizens are entitled to the same rights, freedom and duties and are equal before the law, regardless of their race, color, sex, language, beliefs, religions, political tendencies, birth of origin, social status, resources, and any position. Article 44 guarantees all persons, individually or collectively, shall have the right to own property. Only natural persons or legal entities of Khmer nationality shall have the right to own land. Legal private ownership shall be protected by law. Expropriation of ownership from any person shall be exercised only in the public interest as provided for by law and shall require fair and just compensation in advance.

Land Law (2001) recognizes the collective land rights of indigenous communities by the State that offer a unique chance for indigenous peoples in Cambodia to exercise their right to self-determined development that include Article 26: Ownership of the lands is granted by the State to indigenous communities as collective ownership, including all the rights and protections enjoyed by private owners. The exercise of collective ownership rights are the responsibility of the traditional authorities and decision-making mechanisms of the indigenous community, according to their customs and subject to laws such as the law on environment protection; Article 28: No authority outside the community may acquire any rights to immovable properties belonging to an indigenous community. Indigenous communities have the right to collective ownership of their lands, which gives them all the rights and protection of ownership as enjoyed by private landowners. The lands of indigenous communities include residential and agricultural land and encompass land actually cultivated and the lands reserved/fallow land for shifting cultivation. Indigenous communities shall continue to manage their community land according to their traditional customs, pending the determination of their legal status. Once they are registered as legal entities, communities can apply for the registration of their collective title (Land Law 2001, Article 23 to 25). Article 43 stipulates the Commune Council's role in protecting and preserving the environment and natural resources. They also have a role in the classifying and setting of boundaries for all forests in their area of jurisdiction, in coordination with the Ministry of Agriculture, Fisheries and Forestry (Forestry Law 2002, Article 10).

Land Concessions 2003 and 2005. A sub-decree on Social Land Concessions (SLC) was established in 2003 to accompany the implementation of the Land Allocation for Social and Economic Development Project (LASED). The SLC aims at providing state private land for purposes of settlement and family farming to private families particularly the poor, disabled soldiers, and families of deceased soldiers who have no or not enough land.

In late December 2005, the ELC sub-decree was established, defining a mechanism to grant state private land through a specific ELC contract to a concessionaire to use the land for agricultural and agro-industrial production. This refers to the cultivation of food or industrial crops, animal raising and aquaculture and the construction of facilities for the processing of domestic agricultural raw materials (Sub-Decree No.146 on ELC, article 2). For an ELC, which can be granted to private or investment companies, it must have been classified and registered in the Land Register as state private land, complying with the necessary legal procedures (Land Law 2001 Article 17, Sub-Decree No.118 on State Land Management article. 3 & 21, Sub-Decree No. 146 on ELC article. 2).

All responsibilities and authorities in granting ELCs lie with the MAFF. The concession land cannot exceed 10,000 ha and may only be granted when some additional requirements are fulfilled as follows (sub decree No.146 on ELC, article 4 & 5):

- a) A land use plan for the land has been adopted by the Provincial or Municipal State Land Management Committee, and the land use is consistent with the plan.
- b) Environmental and social impact assessments have been completed with respect to the land use and development plan.
- c) There are solutions for resettlement issues in accordance with the existing legal framework and procedures. There shall be no involuntary resettlement and access to private land shall be respected.
- d) Public consultations have been conducted with territorial authorities and local residents, relating to economic land concession projects or proposals.

Moreover, the proposal for ELC has to be evaluated against criteria that include the promotion of people's living standards, perpetual environmental protection and natural resource management, avoidance or minimization

of adverse social impacts, creation of increased employment and with linkages and mutual support between SLC and ELC.

Organic Law (2008) recognizes the vulnerability of the indigenous peoples in Cambodia. It mandates that provincial and district councils in rural areas, capital, municipal and khan levels in urban areas formulate development plans that identify the needs of vulnerable groups, including those from the IP communities.

Protected Area Law (2008) defines the framework of management, conservation and development of protected areas. The law aims to ensure effective management and conservation of biodiversity, and sustainable use of natural resources in protected areas. The law recognizes the right of forest-dependent indigenous peoples to live within the protected areas and to use sustainably the natural resources. Under this law, protected areas are divided into four zones, including core zone, conservation zone, sustainable use zone, and community zone. The law has provisions that define how land can be used and managed in each zone.

Forestry Law 2003 authorizes the granting of forest concessions. The sub-decree on the Management of Forest Concessions states that cancelled or revoked forest concessions shall revert to natural forest protected areas and cannot be converted into an Economic Land Concession (ELC) or awarded to other companies.

Law on Education (2007) aims to promote development of human resources of the nation by providing lifetime education to all people to enable their improvements in terms of knowledge, skills, capacities, dignity, good moral behaviors and characteristics. It also encourages people to learn to better understand, love and protect the national identity, cultures and language. Article 11, 15, 16, and 40 of the Forest Law (2002) recognizes and protects the rights of indigenous peoples to access and use certain forest areas, which they traditionally rely on to sustain their way of life and enjoy the benefits of the forest

Sub-Decree No. 83 ANK, BK (2009) on Procedures of Registration of Land of Indigenous Communities. The objective of this Sub-Decree is to provide indigenous communities with legal rights to land tenure, ensure land tenure security, and protect collective ownership by preserving the identity, culture, good custom and tradition of each indigenous community.

Policy on Environmental and Social Safeguards for Sub-National Democratic Development (RGC-NCDD, 2019) states in the strategy No.7 that Indigenous Peoples also are known in Cambodia as ‘Khmer Leou’ who have their own cultures and customs and make their own living in a way that is significantly different from those of ‘Khmer Kroam’ who live in small groups. The “Khmer Leou” is considered vulnerable IP groups and receive special care and attention by the government. It is required that development projects implemented at sub-national administration should not negatively impact their lives, and traditions and customs of the “Khmer Leou”, particularly with regards to resettlement and land. In terms of application, specifically in land acquisition and resettlement, this policy is applied through the RGC’s SOP-LAR (2018) – Land Acquisition and Involuntary Resettlement, which requires the avoidance of land acquisition or minimization of its use where avoidance is not possible.

Manual for Indigenous Communities Identification; Legal Entity Registration; and Communal Land Registration Process (OHCHR, Mol, MRD, MLMUPC (2018) *provide detailed guidance on steps and measures that need to be taken for identification of indigenous communities, registration of legal entities, and community land registration process.*

RGC (2018) Land Acquisition and Involuntary Resettlement, Standard Operating Procedures for Externally Financed Projects in Cambodia. In Section E (Impact on Indigenous Peoples), it is stipulated that land acquisition and resettlement that potentially affects indigenous people should be avoided – to the maximum extent possible, through selection of site, alignment, and land demarcation. However, when land acquisition is not avoidable, a separate social impacts assessment will need to be carried out to understand clearly how the indigenous peoples use their land; how they conduct their economic activities; how they organize their social

activities; and how the project would potentially affect the IP's identity, culture, and customary livelihoods. As per the decree, a separate Indigenous Peoples Plan (IPP) must be developed to address social impacts, compensation and resettlement packages, and implementation arrangements. The consultation process should consider customary practices, and in most cases, tribal or customary leaders will be consulted as they make decisions for their people. The Project Preparation Consultants (PPC), along with the Executing Agency/Implementing Agency (EA/IA) and local commune authorities, typically prepare the IPP. This is separate from the preparation of the BRP and DRP, although the latter will include a compensation package for the displaced indigenous peoples.

Registration of Lands of Indigenous Communities 2009. Sub-decrees on tenurial security have been issued by the GKC to put in place procedures whereby IPs can process claims to their rightful lands (provided they are the majority population at commune level). Recognition and certification of lands among IPs are ongoing with the issuance of the 2009 Sub-Decree on Procedures of Registration of Lands of Indigenous Communities.

National Policy on the Development of Indigenous Peoples (NPDIP). The Council of Ministers approved the NPDIP on 24 April 2009, serving as a guiding document for the implementation of government policies related to Indigenous Peoples across various sectors such as culture, education, health, land, agriculture, infrastructure, justice, tourism, industry, and energy. The NPDIP recognizes the necessity of specific policies for indigenous communities and establishes principles for their formal registration as legal entities with their own bylaws. Additionally, the NPDIP supports the participation of indigenous communities in economic development that affects their lives and cultures, ensuring their full entitlement to express their opinions and make decisions on the development of the economy, society and their cultures towards societal growth. The NPDIP promotes the use of local languages in multilingual primary education, media, and public consultation. It also lists ten brief sector strategies dedicated to culture, education and vocational training, health, environment, land, agriculture, water resources, infrastructure, justice, industry and mines and energy. The NPDIP calls for conducting impact assessments for all infrastructure projects: "Development projects in the living areas of indigenous peoples can function only if there has been an environmental and social impact assessment and publicity to relevant indigenous peoples' communities in advance in order for those people to have an opportunity to provide input about their need." The NPDIP recognizes the rights of indigenous peoples in traditional lands, culture and traditions. This is consistent with the national Land Law (2001).

Policy on Registration and Right to Use of Land of Indigenous Communities: The Council of Ministers approved on April 24, 2009. The Prime Minister signed a Sub-Decree on procedures of registration of Land of indigenous communities on June 9, 2009. This policy was developed on basis of the Land Law (2001), which recognizes the right of the indigenous communities to possess and use land under their collective ownership. The policy states that the registration of indigenous communities' land, as collective ownership, is different from the registration of individually owned land parcel. This is because land registration of the indigenous communities entails the registration of all land parcels that the communities own and use. The policy consists of both State Public Land and State Private Land in accordance with articles 25, 26, and 229 of the Land Law (2001) and related Sub-decrees. These land parcels vary in size and can be located within the same or different communes/ sangkat. Therefore, the registration of land parcels of indigenous communities requires a separate Sub-decree that supplements the existing procedures for sporadic and systematic land registration.

Other Policy Considerations. Apart from its Constitution and other national laws, Cambodia has adopted and supports the UN Declaration of Rights of Indigenous Peoples (IP) by way of ending discrimination and promoting the rights of Cambodia's recognized IPs.

2.3 IFAD and AIIB's ESS3 Requirements on Indigenous Peoples

II

AIIB's ESS 3 on Indigenous Peoples

The AIIB Environmental and Social Framework (ESF) sets out the requirements for all Bank supported operations to comply with the Bank policies addressing environmental and social impacts, among other policies⁷. The ESF includes three mandatory Environmental and Social Standards (ESSs) that detail the requirements applicable to Bank clients on, respectively: Environment and Social Assessment and Management (ESS 1), Land Acquisition and Involuntary Resettlement (ESS 2) and Indigenous Peoples (ESS 3).

Objective. The objective of the ESS 3 is to enable the design and implementation of Projects in a way that fosters full respect for IPs identity, dignity, human rights, economies and cultures, as defined by the IPs themselves, so that: (a) they receive culturally appropriate social and economic benefits; (b) they do not suffer adverse impacts as a result of Projects; and (c) can participate actively in Projects that affect them.¶

Scope and application.

The ESS 3 applies if IPs are present in, or have a collective attachment to, the proposed area of a subproject, and are likely to be affected by the subproject. The term IP is used in a generic sense to refer to a distinct social and cultural group possessing the following characteristics in varying degrees: (a) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (b) collective attachment to geographically distinct habitats, ancestral territories or areas of seasonal use or occupation in the subproject area and to the natural resources in this area; (c) customary cultural, economic, social or political institutions that are distinct or separate from those of the dominant society or culture; and (d) a distinct language or dialect, often different from the official language or languages of the country in which they reside. 4 In considering these characteristics, national legislation, customary law and any international conventions to which the member in whose territory the subproject is located is a party may be considered. A group that has lost collective attachment to geographically distinct habitats or ancestral territories in the Project area because of forced severance remains eligible for coverage as an IP under ESS 3.

Indigenous Peoples Planning Framework: An Indigenous Peoples Planning Framework (IPPF) is prepared when a Project is likely to involve IPs and consist of a program or series of activities whose details had not yet been identified at the time the Project was approved by the Bank. In the case of this Project, and under exceptional circumstances, the AIIB determined that the environmental and social assessment of the identified Project activities could be conducted using a phased approach as defined under Section E, Special Circumstances of the IPP of the ESS 3, during the development of the activities in conformity with the IPPF that is approved by the Bank.

Indigenous Peoples Plan. Generally, if the subproject process determines that IPs are present in, or have collective attachment to, a subproject area, and furthermore are likely to be affected by the subproject, the Project is required to prepare an Indigenous Peoples Plan (IPP). The IPP should draw on indigenous knowledge and participation by any affected IP communities and take into consideration differentiated impacts of the Project with respect to gender and different generations. The IPP includes (a) a framework for continued consultation with those affected IPs during the subproject implementation; (b) measures to provide these IPs with gender sensitive and culturally appropriate benefits; (c) measures to avoid, minimize. Mitigate, offset or compensate for any adverse subproject impacts, and actions to address these impacts on the different groups in the community; (d) culturally appropriate grievance procedures, monitoring and evaluation arrangements; and (e) a budget and time-bound actions for implementing the planned measures.

⁷ <https://www.aiib.org/en/policies-strategies/download/environment-framework/AIIB-Revised-Environmental-and-Social-Framework-ESF-May-2021-final.pdf>

In the event where project activities: (a) have impacts on land and natural resources subject to traditional ownership or under customary occupation or use; (b) cause relocation of IP and/or EM from land and/or limitations on access to natural resources subject to traditional ownership or under customary occupation or use; or (c) have significant impacts on Indigenous Peoples' cultural resources, the project needs to engaged the affected IP communities in a Free, Prior and Informed Consultation (FPICon) and thereafter obtain the broad support of the affected IP/EM communities for project activities that affect them.

IFAD's Standard 4 on Indigenous Peoples¶

In its engagement with indigenous peoples, IFAD is guided by the nine fundamental principles presented in its Policy on Engagement with Indigenous Peoples: (i) Acknowledging cultural heritage and identity as assets; (ii) Applying free, prior and informed consent (FPIC); (iii) Enhancing community-driven development; (iv) Promoting equitable access to land, territories and resources; (v) Valuing indigenous peoples' knowledge; (vi) Enhancing the resilience of indigenous peoples' ecosystems (environmental issues and climate change); (vii) Promoting access to markets; (viii) Supporting empowerment; and (ix) Promoting gender equality.¶

Objectives ¶

Support indigenous peoples to determine priorities and strategies for exercising their right to development; Ensure that each project is designed in partnership with indigenous peoples and with their full, effective and meaningful consultation, leading to FPIC; Ensure that indigenous peoples obtain fair and equitable benefits and opportunities from project-supported activities in a culturally appropriate and inclusive manner; and recognize and respect the rights of indigenous peoples to the lands, territories, waters and other resources that they have traditionally owned, used or relied upon.¶

Scope of Application ¶

IFAD's Policy on Engagement with Indigenous Peoples defines indigenous peoples based on the following criteria: Priority in time, with respect to occupation and use of a specific territory; The voluntary perpetuation of cultural distinctiveness, which may include aspects of language, social organization, religion and spiritual values, modes of production, laws and institutions; Self-identification, as well as recognition by other groups, or by state authorities, as a distinct collectivity; and An experience of subjugation, marginalization, dispossession, exclusion or discrimination. ¶

This Standard applies to all projects that may affect the human rights, lands, natural resources, territories, cultural heritage or traditional livelihoods of indigenous peoples, regardless of whether: (i) the project is located within or outside of the lands and territories inhabited by the indigenous peoples; (ii) a title to the lands and territories in question is possessed by the indigenous peoples; or (iii) the indigenous peoples are recognized as indigenous in the country.¶

Meaningful consultations and Free Prior and Informed Consent (FPIC). ¶

IFAD will ensure that FPIC is applied in all projects affecting indigenous peoples that: May have an impact on the land access and use rights of rural communities; and target indigenous peoples or rural areas that are home to indigenous peoples.¶

Engagement with indigenous peoples will be undertaken in good faith, in a culturally appropriate manner and with full regard to these peoples' institutions, governance systems, customs and methods of decision-making.¶

Each borrower/recipient/partner is responsible for seeking FPIC as part of the consultation process with indigenous peoples. This process should continue throughout all phases of the project cycle

In recognition of the application of multiple safeguard policies, this IPPF confirms that the project will fully comply with the requirements of AIIB ESS 3 on Indigenous Peoples, IFAD SECAP Standard 4 on Indigenous Peoples, and the Green Climate Fund (GCF) Indigenous Peoples Policy. Where there are discrepancies or gaps between these standards, the project will apply the most stringent provisions to ensure consistency with good international practice and uphold the rights, dignity, and development priorities of Indigenous Peoples. This includes ensuring culturally appropriate consultations, inclusive benefit-sharing, and the use of Free, Prior, and Informed Consent when applicable. For CAISAR, based on the current assessment, it is anticipated that the project would not affect any land and/or natural resources that are traditionally owned or under customary occupation or use by IP and/or EM, nor their cultural resources. Therefore, FPIC is not likely triggered under the Project albeit the applicability of FPIC will be determined based on the SIA to be carried for relevant subprojects. ¶

2.4 Gaps between National Policies & Donor's Environmental and Social Policies

Despite the fact that Cambodia has a policy that recognizes the rights of IPs to culture, education, justice, health, environment, land, agriculture, water resources and infrastructure among others, there are no decrees, sub-decrees or procedures for specific safeguards to protect the interest of IPs, other than those related to land or forestry. The Cambodia Land Law does recognize the right of indigenous communities in Cambodia to own immovable property - their land - with collective title. However, in practice, the procedure to register collective title can be very time consuming and only a few indigenous communities have received collective title since the Land Law was enacted in 2001. Similarly, the Forest Law also guarantees and recognizes the right of IPs to continue the use and access to certain forest areas that they traditionally use and practice.

Overall, there is an acceptable level of consistency between the government system, the AIIB'ESS and the IFAD standards on IPs. The self-identification process of indigenous communities defined in the national policy is broadly consistent with international good practice. The national framework does not exclude communities who have become more mainstream, and indigenous communities may apply for legal status regardless of whether or not they still use their own language or practice traditional agriculture.

However, while there are some complementary links between Cambodian laws and regulations related to IPs and the ESS 3, there are no sufficiently detailed regulations or operating procedures to facilitate full implementation of the IPPs. Therefore, this IPPF has been prepared on the basis of the ESS 3 of AIIB and Standard 4 of IFAD (Indigenous Peoples), considering relevant Cambodian policies and regulations. The IPPF also outlines the Grievance Redress Mechanism (GRM), based on the GRM that is used for the Project, which will need to be further refined in consultation with IPs, if any are found to be residing at any subproject sites.

Items for Clarification	RGC's Policies	AIIB's ESS3	IFAD's SECAP Standard 7	Clarifications
Definition of IPs	Have list of IPs that are officially recognized as IPs	<ul style="list-style-type: none"> • Self-identification as members of a distinct indigenous social and cultural group and recognition of this identity by others; and • Collective attachment⁸ to geographically distinct habitats, ancestral territories, or areas of seasonal use or occupation, as well as to the natural resources in these areas; and • Customary cultural, economic, social, or political institutions that are distinct or separate from those of the mainstream society or culture, and • A distinct language or dialect, often different from the official language or languages of the country or region in which they reside. 	<ul style="list-style-type: none"> • Priority in time, with respect to occupation and use of a specific territory; • The voluntary perpetuation of cultural distinctiveness, which may include aspects of language, social organization, religion and spiritual values, modes of production, laws and institutions; • Self-identification, as well as recognition by other groups, or by state authorities, as a distinct collectivity; and • An experience of subjugation, marginalization, dispossession, exclusion or discrimination. 	<p>Screening of IP will be conducted based on all ethnic groups to identified in the subproject's area of influence.</p> <p>Screening of IP will be based on the definitions of IP in AIIB's ESS 3 and IFAD's ESS4.</p>
FPIC	No requirements about FPIC	<p>Environmental and Social Standard 3</p> <p>Conduct meaningful consultation (based on Free, Prior, Informed Consultation – FPICon) to obtain broad support from affected IP community when project activities:</p> <ul style="list-style-type: none"> • Have impacts on land and natural resources subject to traditional ownership or under customary occupation or use; • Cause relocation of Indigenous Peoples from land and natural resources subject to traditional ownership or under customary 	<p>SECAP standard 4</p> <p>Conduct meaningful consultations to obtain Free, Prior, Informed Consent from affected IPs when project activities:</p> <ul style="list-style-type: none"> • Have an impact on the land access and use rights of rural communities; and • Target indigenous peoples or rural areas that are home to indigenous peoples. <p>Engagement with indigenous peoples will be undertaken in good faith, in a culturally appropriate manner and with</p>	<p><u>When applicable, Free Prior and informed Consent will be implemented, in line with IFAD's SECAP Standard 4 following the principle that the most stringent requirement applies.</u></p>

⁸ Collective attachment means that for generations there has been a physical presence in and economic ties to land and territories traditionally owned, or customarily used or occupied, by the group concerned, including areas that hold special significance for it, such as sacred sites.

Items for Clarification	RGC's Policies	AIIB's ESS3	IFAD's SECAP Standard 7	Clarifications
		<p>occupation or use;</p> <ul style="list-style-type: none"> • have significant impacts on Indigenous Peoples' cultural resources. <p>Apply Free, Prior and Informed Consent if the laws of the Member in whose territory the Project is located mandate free, prior and informed consent (FPIC) if AIIB has determined that the requirements of such FPIC are consistent with those of FPICon.</p>	<p>full regard to these peoples' institutions, governance systems, customs and methods of decision-making.</p>	

3. RISKS, IMPACTS AND MITIGATION MEASURES

3.1 Overview of Indigenous Peoples

3.1.1 Overview of IPs in Cambodia

There are 22 indigenous groups that are recognized by the RGC in Cambodia. The total population of these 22 indigenous groups is 171,193 people. Most of the indigenous people (92.4%, 2013) live in the northern and eastern parts of country, particularly in provinces of Ratanakiri, Mondulakiri, Kratie, Stung Treng, Kampong Thom, and Preah Vihear provinces. Of 22 indigenous groups, 6 groups are considered major groups as they have more than 10,000 people each. These 6 groups account for 88% of the total ethnic population of the country, including Tampuan, Pnong, Kreung, Kuy, Jarai, and Prey⁹.

The indigenous families are larger than the average family size of the Cambodian population, with an average of 5.3 members per family in 2008 and 4.9 in 2013. Female-headed household accounted for 14% in 2008 and 22% in 2013.

Education. Among the indigenous population aged 15 and over, almost 66% did not attend a school or complete any educational degrees. In comparison, 24.1% attended only primary school (in total, 90% had little or no education). About 10% have at least completed lower secondary education, of which 4% have joined upper secondary education, and less than 1% have received a high school diploma. However, the data show that younger indigenous peoples have a better education rate than the older indigenous peoples, and men are more educated than women.

Employment and Economic Situation. The employment rate is 87.7% among men and 85.5% among women. According to different indigenous groups, the larger indigenous groups tend to have higher labor force participation rates, such as Tampuan, Pnong, Kreung, Preu, Kuy, Kraol, and Kavet. However, the majority of indigenous peoples work without pay (57.3%) and are self-employed (38%), with more men being self-employed (58.9%) and the majority of women working without pay (78.4%). In terms of the economic sectors, the vast majority of indigenous peoples aged 15 and over are employed in agriculture (93.3% of the population, 90.6% of men, and 95.9% of women), a few in the industry sector (total 1.6%, men 1.8%, and women 1.4%), and in the services sector (total 5.1%, men 7.6%, and women 2.8%).

Health and Hygiene. There is no data on indigenous peoples' health problems other than the data on disability from the censuses and intercensal population surveys, and the data on disability, maternal health, access to health and childcare services from Cambodian Socio-Economic Surveys containing only the information about local ethnic minority groups in Cambodia. According to the 2015 Cambodia Socio-Economic Survey, 14% of local ethnic minorities were sick in 30 days before the survey, with children and the elderly being sick the most and the working-age population being sick the least. In addition, boys and older men were twice as likely to be ill as girls and older women, and adult women were 2.7 times as likely to be sick as adult men. The fact that boys were more likely to be sick than girls can be explained by the fact that boys tend to accompany their parents to work in agriculture or collect nontimber forest products. The most common diseases are malaria, respiratory diseases, typhoid fever, and tuberculosis. The health services visited include pharmacies, public hospitals, and private clinics.

Housing and ownership. In 2013, more than 95% of indigenous families had their own houses (96.3% in 2013). The majority of indigenous households used kerosene lamps and batteries as the main source of light. In contrast, 20.6% of households used electricity or their own generators as the main light source in 2013. For the primary fuel type for cooking, most indigenous households used firewood (95% in 2013). For household items for information and communication, almost a third of indigenous households have television, 110% have mobile

⁹ Report on the Demographic and Socio-economic Situation of Indigenous Peoples in Cambodia (2021).

phones, and less than 1% have internet. For traveling, 76.1% of indigenous households had motorbikes, 2.2% had cars, 9.1% had tractors, 7.8% had boats, and 37.4% had bicycles (2013).

3.1.2 Overview of IPs in the Project Area

IPs were found in the four project provinces including Pursat, Kampong Chhnang, Kampong Speu, and Kandal. (See Table 2 below).

Table 1 – Distribution of Indigenous People Groups in Project Provinces

No.	Province	Indigenous Groups (≥ 1000 people)	Indigenous Groups (≥ 100 people)	Indigenous Groups (<100 people)
1	Pursat		Jarai, Poar	Kavet, Kleung, Kuoy, Kreung, Stieng, Ja'ong, Kroul, S'och, Kajrouk
2	Kampong Chhnang		Jarai	Kavet, Kleung, Kuoy, Kreung, Lun, Tampuon, Stieng, Ja'ong, Kroul, Rodae, S'och, Kajrouk
3	Kampong Speu		Jarai, Souy	Kavet, Kleung, Kuoy, Kreung, Lun, Stieng, Ja'ong, Kroul, Mel, Kajrouk
4	Kandal		Jarai, Kleung, Stieng, Ja'ong	Kavet, Kuoy, Lun, Bunong, Praov, Tampoun, Kroul, Rodae, L'moon, Souy, Kajrouk, Mon

Source. Ministry of Planning and Ministry of Rural Development (2021) Report on Demographic and Socio-economic Situation of Indigenous Peoples in Cambodia.

3.2 Project's Environmental and Social Risk and Impacts

The project will bring about an overall positive impact to local farmers. In subproject where IP peoples have farmland in the command area, these IPs will benefit from improved irrigation, water supply, government's agricultural extension services, and services from local farmers' cooperatives. As IPs participate in project activities, particularly agricultural extension services, they can grow more crops, participate in value chain, increase income, and eventually improve their livelihoods. Reliable water access and promising farming opportunities thanks to improved irrigation and extension services also keep the poor, including the poor IPs, from migrating to other areas in search for income generation opportunities. Adverse impacts on IPs are foreseen. However, these impacts are mostly local, small-scaled, such as minor land acquisition in some subproject to allow construction of irrigation canal. Land impacts would be very small at household level (e.g. loss of strip of land) which would not affect the livelihoods of the IP remarkably.

During subproject construction and operation, there are a number of environmental and social risks that may apply to local people, including IP peoples who may happen to be present in a subproject area. Environmental and social risks and impacts that have been identified during project preparation have been discussed in consultation meetings with a) IP peoples who are present in subproject area, and b) other project stakeholders at commune, district, provincial and central level. These consultations aim to ensure potentially affected people, and relevant project stakeholders, are aware of such risks and stay engaged during subproject preparation and implementation for risk prevention and mitigation (Please see full list of social and environmental risks in the project's ESCMF (Section E&S Risks and Impacts) that may apply to any ethnic minorities who are present in subproject area. See also SEP, particularly section (Proposed Strategy for Consultation with Vulnerable/Disadvantaged Groups) for guidance on conducting consultation with IPs when IPs are present in the subproject area.

3.3 Mitigation Measures

Although above risks and impacts will be validated, and assessed at further length when subproject locations become known, IP(s) in a subproject's area may be affected disproportionately compared to the mainstream group. The distinctive cultural and socioeconomic characteristics of the IPs, including their existing livelihoods, etc. may expose IPs to further risks and impacts, increase their vulnerability and compromise their ability to respond to such risks and impacts – if a holistic approach is not in place. Effective communication, such as IEC, and active participation of involved IPs, are among important factors that contribute to effective engagement of IPs for meaningful consultation during subproject preparation and participatory monitoring during subproject implementation. The coordination of project stakeholders, including PMU, Contractors, local authorities, local agencies, local service providers, and most notably the active and full participation of IPs, collectively contribute to minimizing identified risks and potential impacts at identified subprojects.

Detailed mitigation measures for the above risks and potential impacts are proposed in the project's ESCMF. These mitigation measures are specific for design stage, pre-construction stage, construction stage, and operation stage,

During subproject design and pre-construction stage:

To avoid, minimize potential impacts related to land acquisition:

- Effort will be made by PMU to ensure irrigation and road design avoid acquisition of land from IPs;
- In case where avoidance is not feasible (because of technical requirements), minimize the need for land acquisition through alternative designs;
- Compensate affected IP in accordance with RPF, if avoidance is not possible.
- Provide additional financial and developmental support, as needed, based on meaningful consultation, to support affected IPs to fully and timely restore their livelihoods and income to the pre-project level, as a minimum.

During pre-construction stage:

To address identified risks for affected IPs at subproject level, PMU will implement the following:

- Prepare site-specific ESCMP
- Screen for presence of IP(s) in subproject area, based on detailed design
- Conduct Social Assessment (based on site-specific ESCMP)
- Develop IPPs, incorporating results from SA, including mitigation measures, etc. based on meaningful consultations
- Implement IPP (as part of site-specific ESCMP)
- As part of IPP, conduct Behavior Change Communication using audio-visual and local IP language to provide knowledge, raise awareness, change attitude, and promote behavior change among IP and local stakeholders to respond effectively to identified risks, particularly risks related to SEA/SH/VAC, communicable disease, traffic safety, culture related conflicts, etc.
- Where necessary, engage service provider (e.g. SEA/SH service providers) (for subproject being risk “high” or “substantial” on SEA/SH risk (risk is assessed as part of preparation of site specific ESCMP).

During construction stage:

- Implement the following as an integrated approach:
 - i. PMU to implement site-specific ESCMP
 - ii. PMU to continue implementing IPP – as part of site specific ESCMP (in close collaboration with IPs and local partners)
 - iii. Contractor to implement C-ESCMP (including IEC campaign)
 - iv. PMU to allow budget fully and timely (based on budget plan in IPP, Contractors' bill-of-quantity)
 - v. PMU will enhance monitoring process to ensure risks are minimized. This can be achieved through coordinated works of SEO-PMU, DDIS consultant, E&S consultant, and independent E&S monitoring consultant, and participatory consultation of local IPs.

During operation stage:

- Ensure safety measures are in place (e.g. signpost, warnings, safe crossing, etc.)
- Continue IEC campaign, where need, to raise awareness of IPs on safe driving before new road is open to traffic
- PMU to maintain GRM's focal point (particularly during liability stage of contractors following construction completion)
- Ensure routine maintenance is carried out to ensure the road functions as designed

4. PREPARATION OF INDIGENOUS PEOPLES PLAN

When Indigenous Peoples and/or Ethnic Minority groups are present in a subproject area, PMU needs to prepare an IPP for the respective subproject. It is noted the IPP shall be prepared whether the identified IPs/EMs are affected positively (as subproject beneficiaries), or adversely, or both. To prepare an IPP for a subproject, a social assessment will be conducted for that subproject to inform the content development for the IPP and guide the IPP implementation. To ensure the social assessment focuses, social assessment shall be conducted vis-à-vis investment activities that are proposed under the mentioned subproject.

The following three steps shall be followed to prepare an IPP: 1) Screen for Indigenous Peoples/ Ethnic Minorities, 2) Conduct social assessment to develop IPP, and 3) Write-up the IPP:

4.1 Screening for Indigenous Peoples/ Ethnic Minorities (IP/EM)

Once the six subprojects (Ou Ta Pong, Lum Hach, Brambei Mom, Krapeau Trom, Yotassas, and Steung Krang Bat) are approved, PMU's Consultant will conduct IP screening for these seven subprojects. The IP Screening involves two key tasks: 1) Define subproject area (based on subproject's area of influence), and 2) Screen for IP/EMs in the subproject area (See Annex 2 for more guidance). If the IP screening indicates that IP and/or EMs are present in the subproject area, an IPP has to be prepared.

4.2 Preparing an IPP

Preparation of an IPP involve two key steps: 1) conducting a Social Assessment and 2) writing up the IPP.

Step 1. Conduct a Social Assessment (SA)

The purpose of the social assessment is to identify and examine the potential impacts of the approved subproject on the livelihoods of the IP/EMs. In particular, the SA explores how the environmental and social risks and impacts associated with the proposed subproject activities affect the IP/EM. Based on this understanding, measures will be proposed to avoid, or mitigate the adverse impacts and risks and meanwhile enhancing the intended positive impacts of the subproject. The social assessment shall be conducted in a manner that is inclusive, culturally appropriate and gender sensitive. The depth and breadth of the SA should be based on the scope, scale and nature of the subproject impacts and risks. These are determined based on:

- a) The magnitude of subproject's impacts on the affected IP/EM, including: (i) customary rights of use and access to land and natural resources; (ii) socioeconomic status; (iii) cultural and communal integrity and heritage; (iv) health, education, livelihood systems and social security status; and (v) indigenous knowledge; and
- b) The vulnerability of the affected IP/EM.

The social assessment needs to have the following key elements:

- a) Description of the subproject, including a map of the subproject area;
- b) Policy, legal and administrative framework, including the international and national legal framework applicable to the subproject;
- c) Scoping, including stakeholder identification and consultation plan;
- d) Baseline environmental and social data;
- e) Evaluation of environmental and social risks and impacts;
- f) Development of mitigation, monitoring and management measures and actions.

Step 2. Write-up an IPP

Based on the information generated from the above social assessment, PMU's consultant will write up the IPP. An IPP shall include the key following elements, as a minimum.

- a) A framework for continued consultation with these affected Indigenous Peoples during Project implementation;
- b) Measures to provide these Indigenous Peoples with gender sensitive and culturally appropriate benefits;
- c) Measures to avoid, minimize, mitigate, offset or compensate for any adverse Project impacts, and actions to address these impacts on the different groups in the community;
- d) Culturally appropriate grievance procedures, monitoring and evaluation arrangements; and
- e) A budget and time-bound actions for implementing the planned measures.

It is recommended that the IPP should be developed as an overall community development plan to address specific issues associated with the needs of the affected IP/EM. The IPP needs to address not only any adverse impacts and risks, but also enhance the intended positive impact of the subprojects through a continuous IP/EM engagement process during sub-scheme design, implementation, monitoring. This aims to promote the ownership of affected IP/EM and enhance subproject's development effectiveness.

4.3 Approving an IPP

PMU will submit all IPPs to the AIIB for review and clearance prior to IPP implementation.

4.4 Disclosing an IPP

All IPPs, once cleared by AIIB, will be disclosed locally in both English and Khmer at subproject area and will be posted on the websites of MoWRAM and MAFF. The same version will also be disclosed on AIIB's and IFAD's website.

4.5 Implementing an IPP

The IPP should be implemented in coordination with the local authorities and affected IP. The activities and the outcomes of the IPPs implementation should be monitored and evaluated (See also Section 7.3). MoWRAM and MAFF will ensure sufficient financial and human resources available timely prior to embarking IPP implementation.

5. STAKEHOLDER ENGAGEMENT AND INFORMATION DISCLOSURE

5.1 Purpose of Engaging IP during project preparation and implementation

The AIIB's ESF defines stakeholder engagement as a process of identifying relevant stakeholders, conducting stakeholder analysis, and organizing a series of consultations to meet with project stakeholders for collecting stakeholders' feedback and concerns on project's risks and impacts, as well as stakeholders' development needs in relation to project purposes and activities. This aims to ensure the project's adverse impacts on IPs can be avoided, or minimized and mitigated if avoidance is not possible. For this project, it is important that IPs need to be consulted on their development needs (in relation to project purposes) to ensure they can receive socioeconomic benefits that are appropriate to them culturally.

5.2 Consultation results during Project Preparation

Consultation on project design and related IP issues was conducted in XXX 2023 at national level (as listed below), and with IPs potentially affected at subprojects during 25-30 June 2023 (on proposed project), and XXX September 2023 (based on initial design). (See summary of consultation results at Appendix 1).

5.3 Consultation with IPs during Project Implementation

5.3.1 Overview of consultation process

During project implementation, consultations with IPs will be carried out for subprojects where IP screening has confirmed that IPs, as per AIIB ESS3 and IFAD's SECAP Standard 4, are present in the subproject areas. The consultations with identified IPs will be carried out on an iterative basis throughout subproject cycle, to ensure affected IP are informed of the risks and impacts identified for the subproject, and provide meaningful feedback. To ensure relevant IP stakeholders are engaged in project consultations, MoWRAM will identify IP group(s) present in subprojects, then conduct consultations with them – as per Section 4.2. The consultations with identified IP groups will be conducted in a culturally appropriate manner that takes into consideration gender sensitivity and intergenerational perspectives.

The consultations will seek also feedback from IPs on subproject's risks and impacts, suggestions to avoid or mitigate such risks and impacts, and developmental needs of the IP in relation to the project goal and subproject activities. To promote effective project design and build project support and ownership of local IPs, while reducing risk of potential delays during subproject implementation, MoWRAM will apply the engagement strategy. The engagement process will include analysis of IPs as project stakeholders, engagement planning, disclosure of information, and conducting meaningful consultations with the affected IP(s). The consultations will be based on the existing customary institutions and decision-making processes of the consulted IPs to promote IP's participation and support for the subprojects. In particular, the consultations to be conducted by MoWRAM at subproject level will:

- a) Involve the participation of IPs' representative bodies and organizations, such as councils of elders or village councils, or chieftains. Where appropriate, consultations shall be carried out with other members of the IP communities;
- b) Allow for IPs to participate effectively in the design of project activities or mitigation measures that could potentially affect them – either positively or negatively;
- c) Provide IPs sufficient time to confirm the broad support from the affected IP for proposed project activities, and associated risks and impacts.

Stage	Stakeholders	Activities	Outcomes
1. Subproject identification	<ul style="list-style-type: none"> MoWRAM and MAFF Implementing agency at provincial and district level (e.g. PDWRAM, PDAFF) Commune and village authorities Target beneficiary households, including poor, vulnerable, and disadvantaged groups 	<ul style="list-style-type: none"> Government and agency meetings to explain need for safeguards, agree on selection criteria. Scoping – visiting potential sites, physical inspection. Meetings and briefings with provincial and district agencies. Meetings with commune and village authorities. Meetings with target beneficiaries. 	<ul style="list-style-type: none"> Agreement on objectives, priorities. Indicative development priorities for community. Identification of problems and issues. Basic design needs. Records of community participation disaggregated by sex and ethnicity.
2. Subproject preparation	<ul style="list-style-type: none"> MoWRAM and MAFF Implementing agency at provincial and district level (e.g. PDWRAM, PDAFF) Commune and village authorities Target beneficiary households, including poor, vulnerable, and disadvantaged groups 	<ul style="list-style-type: none"> data requirements, participatory methods, consultation process and need for indigenous people /ethnic minority 	<ul style="list-style-type: none"> Data for preparation of socioeconomic profiles. Needs and constraints identified. Special considerations identified.
	<ul style="list-style-type: none"> Commune and village authorities Target beneficiary households Members of vulnerable or minority groups Project technical assistance 	<ul style="list-style-type: none"> Open village meeting to explain purpose and process of consultations. Field level data collection – socio- economic data and surveys. 	<ul style="list-style-type: none"> Identification of gender issues, women's needs, and priorities. Identification of specific needs for tailoring innovative

			behavior change campaign
		<ul style="list-style-type: none"> ▪ Household level and focus group discussions for identifying needs ▪ IP/ Ethnic minority households and separate focal discussion groups by gender. ▪ Discuss proposed project design. ▪ Obtain feedback, determine level and scope of support. ▪ Update briefings for provincial and district agencies. 	<ul style="list-style-type: none"> ▪ Identification of indigenous peoples/ethnic minority households that will be qualified/covered under the IP/EM ▪ Identification of needs for Information, Education and Communication material to be prepared in IP/EM language. ▪ Records of community participation and consultation results.
3. Subproject completion and evaluation	<ul style="list-style-type: none"> ▪ MoWRAM and MAFF ▪ Implementing agency at provincial and district level (e.g. PDWRAM, PDAFF) ▪ Commune and village authorities ▪ Target beneficiary households, including poor, vulnerable, and disadvantaged groups 	<ul style="list-style-type: none"> ▪ Meetings with commune and village officials to discuss benefits and issues. ▪ Focus group discussions to review/evaluate benefits received, implementation issues, and improvements needed. ▪ Separate focal group discussion (by gender) where needed. 	<ul style="list-style-type: none"> ▪ Feedback on implementation progress, issues, and constraints. ▪ Suggestions for future improvements ▪ Records of community participation and consultation results

5.3.2 Free, Prior and Informed Consultation/Consent

The project will be designed to avoid any project activities that may

- have impacts on land and natural resources subject to traditional ownership or under customary occupation or use;
- cause relocation of Indigenous Peoples from land and/or limitations on access to natural resources subject to traditional ownership or under customary occupation or use; or
- have significant impacts on Indigenous Peoples' cultural resources.

The SIA process will determine the applicability of FPIC but on top of it, the project will ensure engaged the affected IP/EM in a meaningful consultation process by adopting the Informed Consultation and Participation (ICP) approach to ensure affected IP/EM are engaged in the informed consultation process and participating in

project's consultation sessions. The consultation process adopted will be inclusive and iterative and promote in-depth exchange of views and information. PMU will ensure the views of the affected IP/EM concerning matters that affect IP/EM directly are considered and incorporated into subproject's design and implementation, particularly into proposed mitigation measures, sharing of development benefits and opportunities, and implementation issues.

The consultation process will also aim to capture both men's and women's views that are obtained from separate engagements/meetings, and will reflect men's and women's different concerns and priorities about subproject's risks and impacts, mitigation mechanisms, and benefits, in subproject implementation process. PMU will document the consultation process, particularly measures that PMU will take to avoid or minimize risks to and adverse impacts on affected IP/EM, and inform affected people of how their concerns have been considered and taken into action.

When applicable, Free, Prior and Informed Consent (FPIC) will be implemented in accordance with the requirements of AIIB ESS 3, IFAD SECAP Standard 4, and the GCF Indigenous Peoples Policy. The project will ensure that consent is obtained through a culturally appropriate process and it will be conducted in good faith, free of coercion or manipulation, and prior to the finalization and implementation of activities. FPIC will not be treated as a one-time event, but as an ongoing and iterative process of dialogue and decision-making. Documentation of FPIC outcomes, including broad community support or consent, will be maintained and disclosed in accordance with the applicable safeguard standards.

5.4 Information Disclosure

Prior to conducting consultations, MoWRAM will notify the concerned IPs of the consultation plan during preparation. MoWRAM will provide affected IPs with initial subproject information in the form of booklet in both Khmer and local language (if applicable). This initial information should be provided to IP at least two weeks prior to consultation. If the concerned IPs do not have a written language, the IP will be provided the information in Khmer and are explained verbally in the local language of the concerned IP to ensure the IP are fully informed of the consultation purpose and initial subproject information.

For public consultation, the draft IPPF (in English) and its Executive Summary (in Khmer) will be disclosed on MoWRAM's website on XXX (<https://www.>). The Executive Summary (in Khmer) will also be disclosed in hard copy at MoWRAM's public library in Phnom Penh, and in the offices of Provincial Departments of Water Resources and Meteorology in all four project provinces. Once finalized, the IPPF will be re-disclosed again through the above channels prior to AIIB's and IFAD's project appraisal. The draft and final IPPF will be disclosed in English on the AIIB's and IFAD's website.

During project implementation, all draft IPPs, once completed by MoWRAM and submitted to the Bank for review, shall be disclosed to affected IP communities in Khmer language. The summary of the IPP (in the form of an Information Booklet) will be translated into IP's language if the consulted IPs have their own written language. Public meetings will be held with the affected IP(s) to explain the contents of the relevant IPP in their mother language to ensure affected IPs understand what and how the activities under the IPP will be carried out, including E&S risks and impacts of subproject activities, and how the IPs will be engaged by MoWRAM in consultation meetings during subproject preparation, and in monitoring during subproject implementation to minimize identified E&S risks and impacts. IPPs – prepared for relevant subprojects, will be disclosed locally in Khmer and local IP language (if applicable), as well as in Khmer and English language on MoWRAM's website. The English version of the IPPs will be disclosed on the AIIB's and IFAD's website.

6. GRIEVANCE REDRESS MECHANISM

6.1 Purpose of Project's GRM

The purpose of the GRM in this IPPF is to provide aggrieved IP with grievance redress procedures that are accessible, easily used, and free of charge to ensure that the grievances submitted by the affected IPs are solved timely. The GRM in this IPPF guides how a complaint of affected IP can be lodged, including forms of grievance lodging, channels, and steps that can be taken.

The GRM also describes the time-limits, where possible, for each step, such as time-limit for acknowledging receipt of complaints, notification of resolution decision. During the grievance resolution progress, where necessary, dialogues will be held between the aggrieved IP and project's GRM focal point that are designated for each step. Dialogues with affected IP during complaint resolution process aims to promote mutual understanding and collaboration among concerned parties.

The project also includes an appeal process that a complainant can use when they are dissatisfied with the resolution results/decision, or their complaints are not resolved within a specified timeframe. During subproject implementation, IPs in the subproject area will be reminded of the availability of this GRM and will be explained during consultations about how to use it.

6.2 Grievance Redress Procedures

The following section outlines complaint handling procedures that are designed to assist affected Indigenous Peoples (IPs) in making complaints regarding the project. These procedures are designed to address potential impacts and risks during project preparation and cover three key areas: a) land acquisition, where individual IP land is acquired either permanently or temporarily during construction, b) gender based violence, where IPs are victims, survivors, witnesses, or otherwise affected by SEA/SH actions related to the project, and c) general complaints and concerns related to project design, adverse impacts on IPs such as dust, noise, vibration, and any other aspects that IPs attribute to project activities.

6.2.1 Grievances related to Land Acquisition

The project has prepared a standardized GRM for stakeholders affected by land acquisition, including IPs. However, given the presence of various IP groups in project provinces, the IP groups in each subproject area will be consulted for feedback on the project's standardized GRM, as presented below. The purpose of consultation on the GRM in this IPPF is to ensure that the standardized steps and process below are culturally appropriate to the affected IP group. If required by the consulted IPs, the GRM below will be updated to reflect the customary complaint handling procedures currently practiced by the consulted IP and/or may be preferred by the affected IPs, based on the Social Assessment of IPs once site-specific subprojects are identified or confirmed during project implementation (See detailed Procedures at Section 6.2.2 of project's Resettlement Policy Framework).

6.2.2 Grievances related to Gender Based Violence/SEA/SH

In case the IP wishes to submit a grievance related to gender based violence, they can lodge their grievance using the Redress Procedure for Complaints related to gender (See Section 6.4.3 in the Stakeholder Engagement Plan for details).

6.2.3 Grievances related to any other aspects not covered in the above GRM

If environmental factors, such as elevated levels of dust or increased noise during evening hours, negatively impact the living or business activities of IPs, several channels will be established for their convenience. These channels may include:

- PMU GRM focal point's telephone;

- **Local IP leaders;**
- **Contractor's hotline:** to report cases that they think contractors can timely address them (contact detail of Contractors will be posted at construction sites, and distributed to IPs (through Subproject Information Booklet) during consultations, and posted at public billboards of Commune/Sangkat offices, pagodas; and
- **Commune/Sangkat offices**

7. IMPLEMENTATION ARRANGEMENTS

7.1 Implementation Arrangements

The MoWRAM will be responsible for implementing this IPPF. The Project Director (PD) at MoWRAM will be responsible for providing overall guidance, policy advice, conducting internal coordination, discussing and resolving issues at project level – in association with relevant government agencies where needed. The Project Manager (PM) at MoWRAM will provide day-to-day support to the PD and will be responsible for ensuring that the IPPF will be followed. The PM will oversee the work of the ESOs and ensure proper screening of IP groups will be carried out for each subproject, and steps for IP screening and social assessment described in this IPPF are followed. Within MoWRAM, the ESOs will be responsible for carrying out day-to-day activities set forth in this IPPF. An IP specialist will be appointed within MoWRAM's PMU (in addition to a Resettlement and Environmental Specialist) to provide guidance to Provincial PDWRAM in conducting consultation with affected IP in respective subprojects.

The MoWRAM needs to inform the AIIB and IFAD of the IP screening results and steps that MoWRAM will take in case IPs are present in the subproject area. When IPs are found in the subproject, MoWRAM will engage IP consultants to work closely with PMU's IP Specialist and PDWRAM to conduct Social Assessment and prepare IPPs. PMU's IP specialist and IP consultants will visit the subproject sites and work closely with PDWRAM, local authorities, relevant agencies, NGOs, particularly local IP leaders and IP members, including vulnerable groups of affected IP communities, to conduct Social Assessment.

7.2 Capacity Building

Since the MoWRAM is new to AIIB's ESF and IFAD's SECAP, and have not been familiar with requirements of AIIB's ESS3 and IFAD's SECAP Standard 4, they may not be able to conduct meaningful consultation from initial years of project implementation. In the first year, these specialists will be trained by the AIIB task team on ESF with a particular focus ESSs and IFAD's SECAP with a particular focus Standard that apply to this project to enable newly appointed ES specialists at the MoWRAM to provide appropriate support. Where needed, IP consultant will be engaged to provide additional support to PMUs' specialist, particularly in the initial years of project implementation. Since independent ES monitoring consultant will be engaged by PMU at MoWRAM, feedback from this consultant, alongside internal monitoring results, will provide regular feedback to PMU on how IPPF/IPP is carried out so that adjustment/improvement could be made appropriately and timely.

7.3 Monitoring & Evaluation

The application of the IPPF, including implementation of subproject IPPs, will be monitored internally by the MoWRAM. Adverse impact on IPs (if any) due to land acquisition will be monitored by GDR and MoWRAM as part of implementation arrangement set forth in Section 9.1.2 of project's Resettlement Planning Framework (RPF).

Within MoWRAM, the ESO will be responsible for conducting quarterly monitoring activities of the activities set for under all subproject IPPs. Monitoring of IPPF/IPP implementation will focus on assessing the compliance of IPP implementation vis-à-vis the followings:

- IP screening process and results;
- Information disclosure;
- Quality of Social Assessment and of IPP preparation;
- IPP implementation process, the level of achievement at output, outcome, and purpose levels;

- Functioning of project's GRM (as customized to respective EG/IP groups present in each subproject area to ensure the GRM is culturally appropriate to the local EG/IPs);
- Development activities carried under IPPs (based on development needs of IPs);
- Results and impacts of IPPs (in ensuring the affected IP receive socioeconomic benefits of the project that is culturally appropriate, gender and intergenerational inclusive, and contributing to achieving the objective of the AIIB's ESS3 and IFAD's SECAP Standard 4).

In addition to internal monitoring, the project will encourage IPs in subproject areas to participate in monitoring and evaluation of IPP implementation process and implementation outcome which affects them. During SA exercise, feedback and suggestions from IPs will be solicited as to how they wish to participate in monitoring and evaluation of IPP activities.

MoWRAM will provide a quarterly IPP implementation report to the AIIB and IFAD. These results will be incorporated into MoWRAM's consolidated Environmental and Social Compliance Report (ESCR) (See Annex 4 for Indicative Indicators for Internal Monitoring of IPP implementation).

7.4 Reporting

MoWRAM's ESOs will ensure feedback from affected and interested IP, as well as grievances submitted by affected IPs, are resolved timely and effectively, and that resolution results are reported timely back to the aggrieved IPs. The method of reporting back depends on the stakeholders, and as follows:

- For stakeholders at national level, email and/or official letter will be used to report back to stakeholders following consultations and/or workshops. The content of the report will summarize what comments, suggestions, concerns that have been received, by whom and when, and how such comments, suggestions, concerns were considered.
- For stakeholders at local level, follow-up meetings/consultations will be conducted to informed stakeholders know on how comments, suggestions, concerned were considered.
- For Indigenous Peoples, project's responses to their comments, suggestions, concerns are reported back to them in subsequent face-to-face consultations – in line with the project's SEP and the IPPF, including how the project had considered and addressed their concerns through concrete actions to be carried out during subproject implementation process and through IPP implementation.

Grievances of all project IP will be reported back to them through project's GRM channels within the timeframes specified for each step of the above GRM procedure.

8. COSTS AND BUDGET

8.1 Costs

Indicative costs for IPPF implementation are estimated during project preparation (See Figure below) for the purpose of budget planning. The actual costs of IPP implementation depend on the number of IPPs, including scope and activities to be carried out under each IPP, during project implementation. The estimated cost below may be updated once the list of subprojects is finalized.

8.2 Budget

The budget for implementing IPPs will be allocated from project's financing (See Figure below). Implementation, based on subprojects that will be identified/confirmed during project implementation. This budget plan will be updated to ensure funding is planned annually to ensure timely and effective implementation of proposed activities.

Table 2 – Key activities and costs for supporting IPP implementation (in US Dollars)

No.	Key activities	Stakeholders involved	Estimated costs (per province x 4)	Sub-Total (Counterpart Budget)	Sub-Total (AIIB finance)	Sub-Total (IFAD finance)	Total
1	Recruitments of IP consultants to conduct screening and SA	<ul style="list-style-type: none"> MoWRAM (oversight) ESO (implement) 	3,000 x 4	12,000	-		12,000
2	Recruitment of bilingual facilitators to support consultations as part of SA	<ul style="list-style-type: none"> MoWRAM ESO (implement) 	1,000 x 4	4,000	-		4,000
3	Conduct Social Assessment and Prepare subproject IPPs	<ul style="list-style-type: none"> MoWRAM (oversight) ESO (lead) IP Consultant (implement) 	5,000 x 4	20,000	-		20,000
4	Conduct mitigation measures, development activities, and relevant activities, as part of IPP (based on the needs of consulted IPs, e.g. trainings for IP on good agriculture practices such as Integrated Pest Management, water saving technology (e.g. alternative wet dry, fertilizer needs assessment/ application, alternative job that is not land based for income generation activities which are culturally appropriate, etc.)	<ul style="list-style-type: none"> MoWRAM (lead) Consultant (implement) 	5,000 x 4	20,000	-		20,000
5	Monitoring and Evaluation, Reporting	<ul style="list-style-type: none"> MoWRAM (oversight) ESO (implement) 	2,000x4	8,000	-		8,000
6	Staff allowance	<ul style="list-style-type: none"> MoWRAM (oversight) ESO (implement) 	\$34 x 7 staffs x 10 days x 4 provinces	9,520	-		9,520
7	Transport		1,000 x 4	4,000	-		4,000
8	Data collection		1,000x 4	4,000	-		4,000
9	Others		500 x 60	30,000	-		30,000
10	Contingency (10% of above 9 items)						11,152
Grand-Total							122,672

ANNEXES

Appendix 1 – Guidance for Screening for Indigenous Peoples/Ethnic Minorities

Once a subproject is approved, PMU's Consultant will conduct initial screening for the presence of IP/EM in the subproject area. The following steps could be followed:

- 1) **Define area of influence** (subproject area): subproject area needs to be defined, spatially, based on the subproject area described in the most updated Environmental and Social Impact Assessment/ Environmental and Social Management Plan prepared for the subproject.
- 2) **Screening.** Screening of IP/EM consist of two key tasks: desktop review and field works.

Desktop screening. Conduct IP/EM screening vis-à-vis above defined subproject. Identification of potential presence of IP/EM could be carried out initially based on the IP database managed by the Ministry of Rural Development and the Ministry of Planning. In addition, commune authorities within the subproject area could be asked to provide the most updated information about IP/EM groups living in their respective communes to facilitate consultant's initial desktop screening. It is noted that Ethnic Minorities refer to all groups by their own ethnicity and IP in the context of Cambodia refers to IP groups that are officially recognized. Screening results need to be updated if there is change to subproject area.

Consultant's screening needs to cover IP groups (that are recognized by the Government), and other ethnic groups based on the definition of IP of AIIB and IFAD (See also Definitions section of this document).

Field visit. After completing desktop review, PMU's consultant will visit the subproject's area of influence to validate their above initial screening results. In addition to face-to-face validation with local commune authorities (and district authorities if needed) on initial screening result, the consultant need to conduct field observation in area where identified IP/EM are living, and their production area. Consultant may need to interview IP/EM and their respective leaders living in subproject area, and local people who are knowledgeable about IP/EM such as the village chiefs, opinion leaders, mass organizations such as commune women's union, farmers' association, to understand more about the socioeconomic and cultural life, livelihood activities, cultural heritages of the identified IP/EM in the subproject area. Consultant needs to visit the field again if there is change to subproject area.

While doing desktop screening and making field visit for validation of desktop review, the following guiding questions and IP screening form can be used:

- Are there socio-cultural groups in or use the subproject area who may be considered as hill tribes, ethnic minorities or indigenous communities within the subproject area?
- Are there national or local laws or policies as well as anthropological research or studies that consider these groups residing in or using the subproject area as belonging to ethnic minorities, IPs or cultural communities?
- Do such groups identify themselves as being part of a distinct social or cultural group?
- Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the dominant society in these habitats and territories?
- Do such groups maintain cultural, economic, social and political institutions distinct from the dominant society and culture?
- Do such groups speak a distinct language or dialect?
- Have such groups been historically, socially and ecologically marginalized, disempowered, excluded and/or discriminated against?
- Are such groups represented as IPs in any formal decision-making bodies at the National or local levels?
- Do such groups experience subjugation, marginalization, dispossession, exclusion or discrimination?

- How vulnerable the groups are under the subproject's impacts and risks?

If screening result indicates that the ethnic groups being considered matches the definition of IPs as per AIIB's ESS 3 and IFAD's Standard 4 (See definition of IPs at section "Definitions" of this document), the IP screening results should be documented fully in the form of IP Screening Report and recommend that an IPP will be prepared for the relevant subproject.

Province-Capital:	Municipality-District-Khan:	Location map attached		
		Yes	No	
Commune-Sangkat:	Village:	Street-road No.:		
Type of civil work/activity:				
Brief description of work/activity and location of civil work: <i>[Roads, community pond. required/purpose of civil work, (table/explain each activity) number of village (number of population) affected with explanation about the affected community]</i>				
Screening checklist				
Questions	Yes	No	Not known	Remarks
A. Indigenous Peoples Identification				
1. Are there socio-cultural groups present in or use the Project/Subproject area who may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples), "minorities" (ethnic or national minorities), or "indigenous communities" in the Subproject area?				
2. Are there national or local laws or policies as well as anthropological research/studies that consider these groups present in or using the subproject areas belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?				
3. Do such groups self-identify as being part of a distinct social and cultural group?				
4. Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				

5. Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
6. Do such groups speak a distinct language or dialect?				
7. Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
8. Are such groups represented as "Indigenous Peoples" or as "ethnic minorities" or "scheduled tribes" or "tribal populations" in any formal decision-making bodies at the national or local levels?				

Questions	Yes	No	Not known	Remarks
B. Identification of potential impacts (provide elaboration in Remarks column)				
9. Will the subproject directly or indirectly benefit or target IPs?				
10. Will the subproject directly or indirectly affect Indigenous Peoples' traditional sociocultural and belief practices? (e.g. childrearing, health, education, arts, and governance)				
11. Will the subproject affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)				
12. Will the subproject be in an area (land or territory) occupied, owned, or used by Indigenous Peoples, and/or claimed as ancestral domain?				
C. Identification of Specialist Requirements				
13. Commercial development of the cultural resources and knowledge of IPs?				
14. Physical displacement from traditional or customary lands?				
15. Commercial development of natural resources (such as minerals, hydrocarbons, forests, water, hunting or fishing grounds) within customary lands under use that would impact the livelihoods or the cultural, ceremonial, spiritual uses that define the identity and community of Indigenous Peoples?				
16. Establishing legal recognition of rights to lands and territories that are traditionally owned or customarily used, occupied or claimed by IPs?				
17. Acquisition of lands that are traditionally owned or customarily used, occupied or claimed by IPs?				
Anticipated impact on IPs				
Subproject activities		Expected positive impact		Expected negative impact

Subproject Category	Subproject eligibility	Next steps	
A. Subproject has impacts (negative or positive) on IP communities residing within the subproject area.	A/B	Prepare IPP describing the completion of meaningful consultations with the IPs and the identification of appropriate mitigation measures to obviate or mitigate any identified negative impacts.	
B. Subproject has no impacts since there are no IP communities residing in the subproject area.	C	No IPP required and no further action is needed.	
IP Screening checklist by:			
	Name		Position:
	Signature		Date:

Appendix 2 – Guidance for Preparing an Indigenous People Plan (IPP)

As mentioned in Section 4.2, preparation of an IPP involves two key steps: conducting a Social Assessment (SA) and writing up the IPP.

1. Conducting a Social Assessment for the purpose of IPP

The SA aims to understand how the IP is affected by the subproject's activities, which informs how mitigation and development measures shall be proposed. The SA aims to explore measures to ensure a) affected IPs shall receive socioeconomic benefits culturally appropriate to them; b) if there are any potential adverse impacts and risks for IPs, such risks and impacts will be avoided to extent possible; c) where avoidance is not possible, measures are proposed to minimize, mitigate, and compensate for unavoidable adverse impacts. Mitigation and development measures will be proposed based on meaningful consultations with the IP households affected by subproject's investment activities.

The scope of SA will be proportionate to: (a) the magnitude of subproject's risks and impacts on the IP; socioeconomic status; cultural and communal integrity and heritage; health, education, livelihood systems and social security status; and indigenous knowledge; and (b) the vulnerability of the affected Indigenous Peoples. The IPP will also need to complement the broader coverage of environmental and social risks and impacts identified in subproject's Environmental and Social Impact Assessment that is conducted to develop subproject Environmental and Social Management Plan. The IPP need to provide specialized guidance on how specific issues associated with the needs of affected IP shall be addressed.

The level of detail and comprehensiveness of the IPP should be proportionate to subproject's risks and impacts. Mitigation and development measures that are proposed for the affected IPs should be culturally appropriate to the IPs.

2. Writing up the IPP

An Indigenous Peoples Plan (IPP) is required for subprojects that have impacts on IPs (positive, adverse, or both). The level of detail and comprehensiveness of IPP is commensurate with the significance of potential impacts on indigenous peoples. The substantive aspects of this outline will guide the preparation of IPPs, although not necessarily in the order shown.

1. Executive Summary of the Indigenous Peoples Plan

This section concisely describes the critical facts, significant findings, and recommended actions.

2. Description of the Project

This section provides a general description of the subproject, discusses the subproject interventions and activities that may bring impacts on indigenous peoples; and identifies the subproject area.

3. Social Impact Assessment

This section:

- a) Reviews the legal and institutional framework applicable to IPs in the subproject context.
- b) Provides baseline information on the demographic, social, cultural, and political characteristics of the affected indigenous peoples communities; the land and territories that they have traditionally owned or customarily used or occupied; and the natural resources on which they depend.
- c) Identifies key Project stakeholders and elaborate a culturally appropriate and gender-sensitive process for meaningful consultation with indigenous peoples at each stage of subproject preparation and implementation, taking the review and baseline information into account.

- d) Assesses, based on meaningful consultation with the affected indigenous peoples, the potential adverse and positive effects of the Project. Critical to the determination of potential adverse impacts is a gender-sensitive analysis of the relative vulnerability of, and risks to, the affected indigenous peoples given their particular circumstances and close ties to land and natural resources, as well as their lack of access to opportunities relative to those available to other social groups in the communities, regions, or national societies in which they live.
- e) Includes a gender-sensitive assessment of the affected IPs' perceptions about the project and its impact on their social, economic, and cultural status.
- f) Identifies and recommends, based on meaningful consultation with the affected IPs, the measures necessary to avoid adverse effects or, if such measures are not possible, identifies measures to minimize, mitigate, and/or compensate for such effects and to ensure that the indigenous peoples receive culturally appropriate benefits under the Project.

4. Information Disclosure, Consultation, and Participation

This section: (i) describes the information disclosure, consultation, and participation process with the affected indigenous peoples that was carried out during subproject preparation; (ii) summarizes their comments on the results of the ESIA and identifies concerns raised during consultation and how these have been addressed in the Project design; (iii) in the case of Project activities requiring broad community support, documents the process and outcome of consultations with affected IPs and any agreement resulting from such consultations for the Project activities and safeguard measures addressing the impacts of such activities; (iv) describes consultation and participation mechanisms to be used during implementation to ensure ethnic minority participation during implementation; and (v) confirms disclosure of the draft and final IPP to the affected IPs.

5. Beneficial Measures

This section specifies the measures to ensure that the IPs receive social and economic benefits that are culturally appropriate, and gender responsive.

6. Mitigation Measures

This section specifies the measures to avoid adverse impacts on IPs; and where the avoidance is impossible, specifies the measures to minimize, mitigate and compensate for identified unavoidable adverse impacts for each affected indigenous peoples.

7. Capacity Building

This section provides measures to strengthen the social, legal, and technical capabilities of (i) government institutions to address IPs' issues in the Project area; and (ii) IPs' organizations in the Project area to enable them to represent the affected IPs more effectively.

8. Grievance Redress Mechanism

This section describes the procedures to redress grievances by affected IPs. It also explains how the procedures are accessible to indigenous peoples and culturally appropriate and gender sensitive.

9. Implementation Arrangement

This section describes institutional arrangement responsibilities and mechanisms for carrying out the various measures of the IPP. It also describes the process of including relevant local organizations and nongovernment organizations in carrying out the measures of the IPP.

10. Monitoring, Reporting and Evaluation

This section describes the mechanisms and benchmarks appropriate to the Project for monitoring and

evaluating the implementation of the IPP. It also specifies arrangements for participation of affected indigenous peoples in the preparation and validation of monitoring, and evaluation reports.

11. Cost Estimate and Financing

This section provides an itemized budget for all activities described in the IPP.

Appendix 3 – Indicators for IPP Implementation Monitoring

Monitoring indicators should assist the project to assess progress of the Indigenous Peoples Plan (IPP) and whether mitigation measures are effective, resulting in desired outcomes. This enables the project to respond to any issues and manage change accordingly.

Indicators that show implementation progress are called process indicators and give some certainty that the project is proceeding according to plan.

Indicators that measure whether the IPP mitigation measures are successful are called outcome indicators and reflect the results of the process.

It is important that an appropriate number of indicators be included in the monitoring plan. Too few may leave gaps in critical areas. Too many may overburden the collection process, and diminish quality. Use the minimum but necessary number of monitoring indicators to ensure adequate IPP implementation and expected outcomes.

Some examples of process and outcome indicators are shown below. They are not an exhaustive list, and should be selected as required.

Example of Process Indicators	
Demographic baseline	<ul style="list-style-type: none"> • The numbers of affected Indigenous Peoples (IP) by category of impact, gender, age, habitat (village etc.), income, status and position • Number of households with handicapped, elderly or invalid members • Number of female headed households • Number of vulnerable households (poor, elderly) • Number of households by ethnic group • Number of births and deaths
Consultation and participation	<ul style="list-style-type: none"> • Number of consultation and participation activities that occur—meetings, information dissemination, brochures; flyers, training • Percentage of IP women as participants; number of meetings exclusively with IP women • Percentage of vulnerable IP groups represented / attending meetings; number of meetings exclusively with vulnerable IP groups. • Languages used at meetings • Good faith negotiations—recording of process, participants, locations, correspondence • Broad community support—record of processes, participants, locations and agreement obtained • Consultation and participation progress against plan and budget
Mitigation measures	<ul style="list-style-type: none"> • Progress of implementation of mitigation / beneficial measures against plan • Number of activities that occur/completed—such as construction, livelihood restoration, disbursements, training • Percentage progress against timelines and budget
Grievance redress	<ul style="list-style-type: none"> • Total number of people/groups using the grievance redress procedure. • Number of distinct people/groups. Any IP group with significantly more grievances? • How many times has a household submitted the same grievance? • Number of grievances resolved? • Length of time taken to be resolved? • Types of grievance categories and prevalence
Implementation problems	<ul style="list-style-type: none"> • Identified delays — (days, cost) due to personnel, capacity, insufficient funds, etc. • Number of times implementation schedule revised

Example of Outcome Indicators	
Consultation and participation program	<ul style="list-style-type: none"> • Awareness of IP issues among implementing stakeholders in each sector • Awareness of IPP mitigation and beneficial measures amongst recipients • Awareness of project details amongst stakeholders • IP perception of effectiveness, cultural appropriateness and inclusiveness of consultation measures • Attendance at consultation and participation activities Level of involvement by IP and representatives in the design and implementation of consultation and participation
Enhanced dignity of IP groups, integrity of traditional kinship networks and livelihood patterns	<ul style="list-style-type: none"> • Changes in religious/cultural practices • Changes in cultural governance • Participation in cultural governance (by gender, status) • Number of people (age and sex) who can speak national language and/or local dialect • Changes in condition of schools, community buildings, temples structures • Numbers of religious/cultural events and persons (monk shamans, priests etc.) • Participation in cultural/religious events (by gender, time/resources allocated)
Livelihoods and living standards	<ul style="list-style-type: none"> • Major asset inventory—e.g. vehicle, phone, tools, kitchen equipment • Changes in patterns of IP occupation, production, and resource use • Changes in income and expenditure patterns among IP households • Savings • Change in food used by IP—amount, nutrition source • Cost of living changes—market prices etc. • Changes in key social parameters—gender roles of production • Vulnerable groups—status, relative income, livelihood • Education—literacy and numeracy level in national/ethnic language • School attendance of IP children (by sex and age) • Key health indicators of IP (by gender, age)

Annex 15 – Outline for a Labor Management Procedures

1. INTRODUCTION

- 1.1 Project Background
- 1.2 Project Descriptions
- 1.3 Purpose of the LMP

2. OVERVIEW ON LABOR USE UNDER THE PROJECT

- 2.1 Type of workers
- 2.2 Direct workers
- 2.3 Contracted workers
- 2.4 Primary supply workers
- 2.5 Community workers
- 2.6 Other stakeholders working in connection with the project
- 2.7 Estimated number of workers

3. ASSESSMENT OF KEY POTENTIAL LABOR RISKS

- 3.1 Project activities involving labor
- 3.2 Key labor risks

4. BRIEF OVERVIEW OF LABOR LEGISLATION: TERMS AND CONDITIONS

5. BRIEF OVERVIEW OF OCCUPATION HEALTH & SAFETY LEGISLATION

6. RESPONSIBLE STAFF

7. POLICIES AND PROCEDURES

8. AGE OF EMPLOYMENT

9. TERMS AND CONDITIONS

10. GRIEVANCE MECHANISM

11. CONTRACTOR MANAGEMENT

Annex 16 – Simplified Integrated Pest Management Plan

1. Rationale

In Cambodia, around 90% of cultivated land is used for rice production. Rice alone accounts for about 70% of the country's total calorie supply. Rice production contributes an estimated 44% of rural household income, making the rice sector an area for strategic development in the country. Despite rice is the major crop in Cambodia, rice production is characterized by widespread misuse of pesticides. This is due to inconsistent enforcement of current regulation and a lack of information on pesticide safety and alternative pest management techniques among rice farmers. Most pesticides are imported and labelled in a foreign language incomprehensible to farmers. It is common that rice farmers mix two to five pesticides by intuition, leading to pesticide poisoning among farmers and adverse impact on environment¹⁰. Rice farmers tend to apply more pesticide when they see pests on their field¹¹. Vegetable farmers also typically mix various types of pesticides per spray which is not good practice¹².

The CWSIP project will 1) improve overall water security for all stakeholders in the targeted basins in three provinces, 2) exploit the potential of the unused water resources and increase agricultural productivity in the targeted basin, and 3) enhance the overall capacity of the water resources management of the central government, concerned local governments, and concerned communities. Through three out of five project components, The project, will improve 1) Water Service Delivery, 2) Agricultural Productivity, and 2) Water Resources Management. The project does not involve procurement of pesticides.

Under CWSIP, the project will support target farming population in irrigated area to improve their use of good agricultural practices, including integrated crop water management, climate-smart agriculture (diversification into high-value crop plantation, public-private-partnership and commercialization), as well as agribusiness and trade development. The CWSIP does not involve procurement of chemical fertilizers, pesticides, and/or other toxic agrochemicals nor promote use of chemical agricultural inputs during project implementation. However, rehabilitation /upgrading of existing reservoirs/irrigation system, etc to be financed under the Project are expected to increase the agricultural command areas, including the number of crop per year. This increased crop may give rise to increased use of fertilizers, pesticides, and/or other toxic agrochemicals in the subproject areas which are unintended impact of the project.

2. Key pesticide management outcomes in Cambodia

Pesticide Use and IPM implementation in Project Provinces: General Directorate of Agriculture (GDA)'s survey in 2014 and nation-wide inspections in 2013 of pesticide and herbicide suppliers in provincial capitals and other main distribution hubs, indicate that the most commonly sold products include: abamectin, chlorpyrifos, cypermethrin, glyphosate, imidacloprid. In the Northern provinces, where a large part of the herbicide use is on corn and rubber plantations, the main products sold are the herbicides Glyphosate, Paraquat and Atrazine. Nowadays, on Rice and Maize cultivation farmers don't use pesticide except some vegetables. These inspections have also shown that the most problematic highly hazardous products, such as monocrotophos, methyl parathion, methamidophos, mevinphos, endosulfan, etc., are no longer found on the market with the exception of the occasional old bottle. The only banned products that still are found regularly are paraquat and methomyl. This is because these products were banned only recently (2010) and are still permitted in the neighboring countries from where they are informally brought in by users or retailers. The banning of highly hazardous pesticides in China does not seem to have led to dumping of old stocks in Cambodia. There are no known large stocks of obsolete pesticides.

Insecticides are used mainly on vegetables (such as Long Yard Bean, Chilly, Cabbage, Chinese Cabbage) marketable high-value crops and plantation crops, notably rubber. Field surveys by the national IPM program and GDA indicate there still is wide-spread abuse of pesticides among farmers. Lack of knowledge among farmers is a major constraint. Abuse includes mixing without justification (just to be sure), use of wrong pesticides, use of wrong dosages, etc. Adequate protective gear is hardly being used. Shops often have gloves and masks for sale, but these tend to be inadequate for protection against hazardous chemicals. Buyers of pesticides rarely also buy protective gear and shops do not provide it for free. Half used pesticide bottles or packages are often stored within the house or near homesteads, often in easy reach of children.

¹⁰ <https://ipmil.cired.vt.edu/our-work/projects/rice-ipm-for-cambodia/>

¹¹ Matsukawa, M., Ito, K., Kawakita, K. et al. Current status of pesticide use among rice farmers in Cambodia. *Appl Entomol Zool* 51, 571–579 (2016). <https://doi.org/10.1007/s13355-016-0432-5>.

¹² Sim Sokcheng, Keo Socheat and Sarom Molideth. 2021. Pesticide Use Practices in Cambodia's Vegetable Farming. CDRI Working Paper Series No. 128. Phnom Penh: CDRI.

Empty pesticide containers are often discarded at the border of fields or in drainage ditches.

3. Government regulation related to pest management

Pest management practices in Cambodia have been promoted through the expansion of the National Integrated Pest Management (IPM) Program by both the government and NGOs. These agencies have been working together to establish a Pesticide Reduction Network to develop awareness of the risks associated with pesticide use amongst farmers.

As a key function, Ministry of Agricultural and Forestry (MAFF) has been examining and implementing various international legal guidelines and instruments relating to regulating the trade, distribution and use of pesticides in Cambodia. These include adherence to the FAO Code of Conduct on the Distribution and Use of Pesticides, the Stockholm Convention on Persistent Organic Pollutants, and the WTO sanitary and phytosanitary measures.

Following the promulgation of the Law on Management of Pesticides and Fertilizers as Royal Kram Number 0112/005 on 14th January 2012, MAFF had developed five Prakas in relation to Procedures for Registration and Business Operations, as follows:

- Prakas No. 415/MAFF dated 17 August 2012, on Procedures and Standard Requirements for Fertilizer Registrations;
- Prakas No. 456/MAFF dated 19 October 2012, on Procedures and Standard Requirements for Pesticide Registrations;
- Prakas N. 484/MAFF dated 26 November 2012, on List of Pesticides in the Kingdom of Cambodia;
- Prakas No. 119/MAFF, dated 11 April 2013, on Procedures for Management of Fertilizers for Business Operations;
- Prakas No. 120/MAFF dated 11 April 2013, on Procedures for Management of Pesticides for Business Operations.

Within MAFF, the Department of Agriculture Legislation and GDA are mandated to oversee all pesticide regulations and use.

4. International Code of Conduct on the Distribution and Use of Pesticides:

The following rules are observed for IPM:

- The standards of conduct set forth in this Code: 1.7.6. are designed to promote Integrated Pest Management (IPM) (including integrated vector management for public health pests);
- Concerted efforts should be made by governments to develop and promote the use of IPM. Furthermore, lending institutions, donor agencies and governments should support the development of national IPM policies and improved IPM concepts and practices. These should be based on scientific and other strategies that promote increased participation of farmers (including women's groups), extension agents and on-farm researchers.
- All stakeholders, including farmers and farmer associations, IPM researchers, extension agents, crop consultants, food industry, manufacturers of biological and chemical pesticides and application equipment, environmentalists and representatives of consumer groups should play a proactive role in the development and promotion of IPM.
- Governments, with the support of relevant international and regional organizations, should encourage and promote research on, and the development of, alternatives posing fewer risks: biological control agents and techniques, non- chemical pesticides and pesticides that are, as far as possible or desirable, target-specific, that degrade into innocuous constituent parts or metabolites after use and are of low risk to humans and the environment.
- Governments should provide extension and advisory services and farmers' organizations with adequate information about practical IPM strategies and methods, as well as the range of pesticide products available for use.
- Governments should ensure that any pesticide subsidies or donations do not lead to excessive or unjustified use which may divert interest from more sustainable alternative measures.

5. Current governmental implementation arrangements related to pest management

Integrated Pest Management (IPM) refers to all pest control techniques and subsequent integration of appropriate measures that discourage the development of pest populations and keep pesticides and other interventions to levels that are economically justified and reduce or minimize risks to human health and the

environment. IPM emphasizes the growth of a healthy crop with the least possible disruption to agro-ecosystems and encourages natural pest control mechanisms.

Under MAFF, Plant Protection Centers and their branches in provinces as well as Agricultural Extension Centers at district level are governmental agencies that coordinate and work on Integrated Pest Management Programs. These activities are built on National IPM program that was initiated with assistance from the FAO, DANIDA and other donors since early 1990s which is largely being maintained using national budget.

IPM activities implemented by these local authorities and technical backstopping by experts from GDA include conducting field surveys, making forecast, monitoring and checking progress of on-field pest development. Using the forecast based on the timing, scale and level of damages that the key pests may cause, provincial plant protection authorities recommend policies, plans, and measures for pest management purpose.

Relevant authorities such as Plant Protection Centers and Agricultural Extension Centers also conduct IPM training for farmers. Farmers learn how to implement various integrated measures such as pest identification, pest control, pest analysis, pest surveillance, and apply measure to control pest, such as applying chemical and botanical control agent, promoting application of biological measures for pest management, reducing chemicals and practice sustainable IPM. Farmers are also trained on proper use of chemical pesticide and fertilizers to ensure efficiency in pest management, ensuring safety for human, natural enemy, and the environment. Communication campaigns on plant protections and quarantine legislations and advance IPM technics to the farmers are also carried out depending on budget availability, etc.

GDA's Plant Protection Center, including the national IPM program, has developed a 3-day curriculum for a Farmer Training on Pesticide Risk Reduction (FT-PRR) which is intended to raise awareness, develop capacity and help rural communities formulate and implement their own action plans for pesticide risk reduction. As of June 2014, some 4,900 Lao farmers (including 1,600 women) have participated in FT-PRR courses in 149 villages of 34 Districts in 9 provinces. Season-long Integrated Pest Management training through Farmers Field Schools (FFS) often includes these short-duration FT-PRR courses. These FFSs allow farmers to learn about and adopt Integrated Pest Management as to reduce overuse of pesticides in crop production. 10.

The National IPM Program has implemented 806 season-long IPM Farmers Field Schools, with over 24,350 rice, vegetable and fruit farmers trained. More, however, remains to be done. Pesticide Risk Reduction and IPM adoption at farm level remains a priority for the Government.

Operational costs of plant protection agencies are allocated from state fund. Their staff also work on projects and programs that are financed by other international funding and conduct additional annual trainings (using international budget) for farmers.

6. Objective of Simplified Pest Management Plan

This Simplified Pest Management Plan (S-PMP) aim to see out plan and measures to ensure the project does not unintentionally give rise to increased overuse of chemical agricultural inputs (such as chemical pesticide, fertilizers, and plant growth regulators, etc.). This S-PMP will be integrated into on-going pest management program and effort that provincial DAFF in project provinces have been doing and make sure pest management efforts target areas where water access are improved through project investment activities.

To mitigate this potential impacts as a 'good practice', the subproject owner will prepare and implement a S-PMP aiming to increase famers knowledge on Government regulations, policies, and/or technical guidelines related to safe use (application, storage, and disposal) of pesticides and toxic agrochemicals likely to be used by farmers as well as promote the application of an Integrated Pest Management (IPM) practice that are appropriate for the agriculture productions in the subproject area through training and other capacity building activities.

Key Elements - The elements of the S-PMP include the followings:

- Preventing pest problems;
- Monitoring for the presence of pests and pest damage;
- Establishing the density of pest population, which may be set at zero, that can be tolerated or corrected with a damage level sufficient to warrant treatment of the problem based on health, public safety, economic or aesthetic threshold;
- Treating pest problems to reduce population below those levels established by damage thresholds using strategies that may include biological, cultural, mechanical and pesticidal control methods and that shall consider human health, ecological impact, feasibility and cost effectiveness; and
- Evaluating the effects and efficacy of pest treatments.

Decision Making

Detecting a single pest under the Project will not always mean control is needed. A decision to use pesticides will be taken only as the very last resort and will also be based on conclusions reached from an agro-ecosystem analysis and trials. The decision will also depend on the number of pest and diseases found in the respective crop and the level of damage they are doing. If it is absolutely necessary to spray crops with pesticides, use of selective rather than broad-spectrum pesticides shall be strictly observed.

Pest Monitoring and Surveillance

A process for the reporting and identification of unusual plants, animals and pests will be established to track and document all pest cases, be it minor or major in a pest inventory register. Pest surveys will be conducted on a regular basis to detect new infestations and will include the types, abundance, location of pest plants, date when first spotted or seen, and date when reported. This information will be gathered from surveillance or monitoring system to be put in place, periodic surveys to be conducted and feedback from farmers/farm assistants. The data will be managed in a standardized way so that trends can be established. A rapid response process for the management of new infestations will be established to treat and manage new pest infestations as soon as they are identified.

Potential Impacts	Proposed Mitigation
Contamination of ground water resources	<ul style="list-style-type: none"> Conducting trials on relatively flat land with less than 2% slope reducing the possibility of run off and at a distance of more than 500m away from water sources
Effect of pesticides on non-target species	<ul style="list-style-type: none"> Use pesticides that are systemic and narrow range and specific to sucking insects.
Effect of pesticides on grazing areas, settlements	<ul style="list-style-type: none"> Spraying in morning hours when weather is cool and less windy to reduce on spray drifts. Locating trials or plots at distance of between 500-1000m away grazing areas or human settlements
Possibility of increasing resistance of pests to the pesticide	<ul style="list-style-type: none"> Training of field staff responsible on recommended usage of the pesticide
Harmful effects on staff applying pesticides	<ul style="list-style-type: none"> Provision and usage of safety clothing and working gear to staff
Harm to persons within the homestead where the chemical is stored	<ul style="list-style-type: none"> Designation of a separate and secured storage room for pesticide Warnings and notices to increase awareness

7. Mitigation measures

It is expected that there will be no procurement of pesticides under the project. During the operational stage, there might be indirect impacts from the increased use of fertilizers and pesticides in command areas to increase agricultural productivity. This will contribute to water pollution in the river basin. However, this impact can be mitigated through the implementation of mitigation measures defined in the site specific ESMP and by applying the code of good agricultural practices (GAP) that is currently adopted by MAFF. To ensure the tendency of increased overuse of pesticide does not happen with subproject where project intervention take place, the project will prohibit procurement of large pesticides using the “negative list” and provide training to key staff and farmers on integrated pest management, safe use of pesticides, and organic farming practices. This will be integrated as part of the safeguard training. This S-PMP will be applied to the project activities that involve:

- Any rehabilitation/upgrading of weirs/reservoirs/dams/existing irrigation schemes that are likely to prompt farmers to increase their use of pesticides;
- Change/introduction of best agricultural practices such as integrated crop water management, Climate-smart agriculture, and
- Promotion of agribusiness and trade related to farm products produced from target command area, and neighboring areas.

The plan is comprised of three parts:

- Application of government regulation on pesticide control;

- (ii) Training of the integrated pesticides concept and/or other approaches for the safe use of pesticides; and
- (iii) Monitoring.

Annex 17 – Land Acquisition and Resettlement Planning Framework

KINGDOM OF CAMBODIA

Nation – Religion – King

MINISTRY OF WATER RESOURCES AND METEOROLOGY



CLIMATE ADAPTIVE IRRIGATION AND SUSTAINABLE AGRICULTURE FOR RESILIENCE PROJECT

ANNEX 6.A

Land Acquisition and Resettlement Planning Framework

February 2024

Prepared by
the Ministry of Water Resources and Meteorology with the assistance of consultants under the guidance of
the General Department of Resettlement of the Ministry of Economy and Finance.

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Abbreviations

ADB	Asian Development Bank
AIIB	Asian Infrastructure Investment Bank
AH	Affected Household
ARP	Abbreviated Resettlement Plan
CAISARP	Climate Adaptive Irrigation and Sustainable Agriculture for Resilience Project
COD	Cut-Off Date
COI	Corridor of Impact
DED	Detailed Engineering Design
DIMDM	Department of Internal Monitoring and Data Management
DMS	Detailed Measurement Survey
DRP	Detailed Resettlement Plan
ESF	Environmental and Social Framework
ESS	Environment and Social Standards
GDR	General Department of Resettlement
GHG	Green House Gas
GRM	Grievance Redress Mechanism
IFAD	International Fund for Agriculture Development
IOL	Inventory of Loss
IRC	Inter-Ministerial Resettlement Committee (Project-Level)
IRC-WG	Inter-Ministerial Resettlement Committee Working Group
Km	Kilometer
LAR	Land Acquisition and Involuntary Resettlement
LARPF	Land Acquisition and Resettlement Planning Framework
MoWRAM	Ministry of Water Resources and Meteorology
PDWRAM	Provincial Department of Water Resources Management and Meteorology
PGRC	Provincial Grievance Redress Committee
PIB	Project Information Booklet
PRSC	Provincial Resettlement Subcommittee
PRSC- WG	Provincial Resettlement Subcommittee Working Group
RCS	Replacement Cost Study
RGC	Royal Government of Cambodia
ROW	Right-of-Way
SECAP	Social, Environmental and Climate Assessment Procedures
SEO	Social and Environment Officer
SOP-LAR	Standard Operating Procedures for Land Acquisition and Involuntary Resettlement

Definitions

Affected People (AP)/Affected Households (AHs). In the context of involuntary resettlement, APs are those who are physically displaced (relocation, loss of residential land, or loss of shelter) and/or economically affected (loss of land, assets, access to assets, income sources, or means of livelihood) as a result of (i) land acquisition and involuntary resettlement; or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas. In the case of AP/AHs, it includes all members residing under one roof and operating as a single economic unit who is adversely affected by the project or any of its components. They can also be referred to as Displaced Persons. In this Land Acquisition and Resettlement Planning Framework (LARPF), the term used will be “AH.”

Abbreviated Resettlement Plan (ARP). Where impacts on the entire displaced population are minor, or fewer than 200 people are displaced, the Client may, with the prior approval of the Bank, prepare an abbreviated resettlement plan, covering such elements as the Bank may specify. Impacts are considered “minor” if the affected people are not physically displaced and less than 10 percent of their productive assets are lost.

Corridor of Impacts (COI). It is the area which is required for construction of the planned civil works under the Project. The COI is agreed by the implementing agency and is demarcated by the civil work consultant within which the construction activities will take place.

Cut-Off Date (COD). Date established by the government that establishes the eligibility of the AHs for receiving compensation and resettlement assistance. For this project, the COD of each subproject financed under the Project will be date of the completion of the census undertaken during the detailed measurement survey (DMS) stage. The COD will be announced in the consultation meeting prior to DMS. Any persons who encroach upon the subproject’s COI after the COD will not be eligible for any compensation or assistance. Persons not covered in the census result can be eligible for compensation if they can show proof that they have been inadvertently missed during the census survey.

Detailed Measurement Survey (DMS). With the aid of detailed engineering design, this activity involves finalization of the results of the inventory of losses, measurement of affected land and assets attached to land, 100% socioeconomic survey and 100% census of AHs.

Detailed Resettlement Plan (DRP). To be prepared following the completion of the Detailed Measurement Survey when impacts on land, assets, livelihood activities of affected people become known following the DMS.

Economic displacement. Loss of land, assets, access to assets, income sources, or means of livelihood as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas.

Eligibility. All AHs confirmed to be residing in, doing business, or cultivating land within the project affected area or land to be acquired or used for the project before the COD are eligible for resettlement compensation for their affected properties.

Eminent Domain. The right of Cambodia using its sovereign power to acquire land for public purposes. National law establishes which public agencies have their prerogative to exercise eminent domain.

Entitlements. Refers to a range of measures comprising compensation for loss of assets, resettlement assistance, income restoration, etc. which are due to the AHs, depending on the type and severity of their losses, to restore their economic and social base.

Expropriation. Process whereby a public authority, usually in return for compensation, requires a person, household, or community to relinquish rights to land that it occupies or otherwise uses. Expropriation under the Cambodian law refers to the confiscation of ownership or real right to immovable property of a natural person, private legal entity, and legal public entity, which includes land, buildings, and cultivated plants and economically productive crops/trees, for the purpose of constructing, rehabilitating, or expanding public physical infrastructure for the national and public interests with prior and fair compensation.

Grievance Redress Mechanism. Refers to a mechanism established under the project to receive, facilitate, resolve, and report back to affected persons the grievance resolution outcome. In the context of this LARPF, the GRM aims to address timely and effectively the grievances arising from involuntary land acquisition, physical resettlement, accesses restrictions as well as economic displacement.

Host communities. Communities receiving physically affected persons of a project as re-settlers.

Income Restoration. Improve, or at least restore, the livelihoods of all persons displaced by the Project through: (i) where possible, land-based resettlement strategies when affected livelihoods are land-

based or where land is collectively owned; or cash compensation at replacement value for land, including transitional costs, when the loss of land does not undermine livelihoods; (ii) prompt replacement of assets with assets of equal or higher value; (iii) prompt compensation at full replacement cost for assets that cannot be restored; and (iv) capacity building programs to support improved use of livelihood resources and enhance access to alternative sources of livelihood.

Income Support. Re-establishing the productive livelihood of the AHs to enable income generation equal to or, if possible, better than that earned by the AHs before the project.

Indigenous Peoples. “Indigenous Peoples” is used in a generic sense to refer exclusively to a distinct social and cultural group possessing all the following characteristics in varying degrees: Self-identification as members of a distinct indigenous social and cultural group and recognition of this identity by others; and Collective attachment¹³ to geographically distinct habitats, ancestral territories, or areas of seasonal use or occupation, as well as to the natural resources in these areas; and Customary cultural, economic, social, or political institutions that are distinct or separate from those of the mainstream society or culture, and A distinct language or dialect, often different from the official language or languages of the country or region in which they reside.

Information Disclosure. The process of disseminating project information to stakeholders to allow them to understand the risks and impacts of the project, and potential opportunities.

Inventory of Losses. This is the process where all fixed assets (i.e. lands used for residence, commerce, agriculture, including ponds; dwelling units; stalls and shops; secondary structures, such as fences, tombs, wells; trees with commercial value; etc.) and sources of income and livelihood inside the Project right of way are identified, measured, their owner identified, their exact location pinpointed, and their replacement costs calculated.

Involuntary Resettlement. Resettlement is considered involuntary when directly affected persons or communities do not have the right to refuse project-related land acquisition or restrictions on land use that result in their displacement.

Land Acquisition. Refers to process and methods that are adopted to acquire land for the project purpose. This may include outright purchase, expropriation of property and acquisition of access rights, such as easements or rights of way. Land acquisition may also include: (a) acquisition of unoccupied or unutilized land whether or not the landholder relies upon for income or livelihood purpose; (b) repossession of public land that is used or occupied by individuals or households; and (c) project impacts that result in land being flooded or otherwise rendered unusable or inaccessible. Land acquisition refers to anything growing on or permanently affixed to land, such as crops, buildings, and other improvements.

Land Acquisition and Resettlement Planning Framework (LARPF). Prepared when project components are not known and therefore land acquisition needs cannot be identified. The LARPF will guide the preparation of future Resettlement Plans if these become necessary.

Meaningful consultation. Two-way process that (a) begins early in project planning process to gather initial views on project proposal and inform project design; (b) encourages stakeholder feedback, particularly as a way of informing project design and engagement by stakeholders in the identification and mitigation of environmental and social risks and impacts; (c) continues on an ongoing basis, as risks and impacts arise; (d) is based on prior disclosure and dissemination of relevant, transparent, objective, meaningful and easily accessible information in a timeframe that enables meaningful consultation with project stakeholders in a format culturally appropriate, and in relevant local language(s) and is understandable to stakeholders; (e) considers and responds to feedback; (f) supports active and inclusive engagement with project-affected parties; (g) is free of external manipulation, interference, coercion, discrimination, and intimidation; and (h) is documented and disclosed by the Government of Cambodia. Under this LARPF, which is specific for land acquisition and involuntary resettlement, the meaningful consultation refers to consultation in respect of land acquisition, economic displacement, and physical resettlement which is clearly stipulated in the Government’s Standard Operating Procedures (SOP) for Land Acquisition and Involuntary Resettlement (LAR) and incorporates all the above elements.

Physical Displacement. Relocation, loss of residential land, or loss of shelter as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas.

¹³ Means that for generations there has been a physical presence in, and economic ties to, land and territories traditionally owned, or customarily used or occupied, by the group concerned, including areas that hold special significance for it, such as sacred sites.

Relocation. This is the physical relocation of an AH from her/his pre-project place of location and/or business to another location.

Replacement cost. A method of valuation that yields compensation sufficient to replace affected assets, plus necessary transaction costs associated with asset replacement. Where markets are active, replacement cost is the market value as established through independent and competent real estate valuation, plus transaction costs. Where functioning markets do not exist, replacement cost may be determined through alternative means, such as calculation of output value for land or productive assets, or the undepreciated value of replacement material and labor for construction of structures or other fixed assets, plus transaction costs. In all instances where physical displacement results in loss of shelter, replacement cost must at least be sufficient to enable purchase or construction of housing that meets acceptable minimum community standards of quality and safety. The valuation method for determining replacement cost should be documented. Transaction costs include administrative charges, registration or title fees, reasonable moving expenses, and any similar costs imposed on affected persons.

Relocation Assistance. Support provided to persons displaced by the Project, including the following: (i) if there is relocation, security of tenure (with tenure rights that are as strong as the rights the displaced persons had to the land or assets from which they have been displaced) of relocation land (and assets, as applicable), proper housing at resettlement sites with comparable access to employment and production opportunities, integration of resettled persons economically and socially into their host communities and extension of Project benefits to host communities to facilitate the resettlement process; (ii) transitional support and development assistance, such as land development, credit facilities, training or employment opportunities, food, shelter, transportation; and (iii) civic infrastructure and community services, as required.

Right-of-Way. It is a government owned strip of land following a centerline (such as for roads, canals, etc.) providing an area of access.

Voluntary donation. Defined as the ceding of a property by an owner who is (a) appropriately informed about the project and their right to seek compensation and (b) can refuse to donate. This does not apply to voluntary, legally recorded market transactions unless such voluntary land transactions may result in displacement of persons other than the seller.

Poor and Vulnerable Persons/Groups.¹⁴ A distinctive group of APs who by virtue of factors beyond their control: (a) are to be more adversely affected by the project's environmental and social impacts; and (b) may be more limited than others in their ability to claim or take advantage of project benefits. Such individuals or groups are also more likely to be excluded from or unable to participate fully in the mainstream consultation process and may require specific measures or assistance (or both) to do so. Poor and vulnerable persons are categorized as: (i) households living below the poverty rate as established by the Royal Government of Cambodia; (ii) elderly people headed households with no means of support; (iii) female headed households with dependents living below the poverty rate; (iv) disabled headed households, (v) landless poor living below the national poverty rate; and (vi) indigenous peoples (who often have traditional land rights but no formal titles).

Due to their vulnerability, particular attention will be paid to such displaced persons to provide them with an opportunity to improve their status and benefit from development/resettlement to the same extent as other displaced persons. This group of displaced persons will be provided with additional assistance to re-establish their livelihood status if they lose their livelihood source permanently.

¹⁴ The group is classified under Sub-Decree No. 291 ANKr. BK on identification of Poor and Vulnerable Households issued with ID Poor Cards by Royal Government of Cambodia.

Executive Summary

1. This is an Executive Summary of the main points discussed in this Land Acquisition Resettlement Planning Framework (LARPF). The Executive Summary should not be relied on for full information; the full LARPF should be read for this purpose.
2. This LARPF has been prepared by the Ministry of Water Resources and Meteorology (MoRWAM) for the Climate Adaptive Irrigation and Sustainable Agriculture for Resilience Project (CAISARP) with the guidance and direction of the General Department of Resettlement (GDR) of the Ministry of Economy and Finance (MEF). This LARPF will be applied to all investments to be financed under this CAISARP irrespective of financing source (e.g. the AIIB, IFAD, and Royal Government of Cambodia). The LARPF has been prepared in line with the Royal Government of Cambodia's (RGC) Standard Operating Procedures on Land Acquisition and Resettlement (RGC's SOP-LAR), the Asian Infrastructure Investment Bank's (AIIB) Environment and Social Framework, 2022 (ESF), and International Fund for Agriculture Development's (IFAD) Social, Environmental and Climate Assessment Procedures 2020 (SECAP) Standard 7.
3. This document is considered a living document and shall be modified and updated in line with the changing situation or scope of the activities. The Detailed Resettlement Plans (DRPs) and Abbreviated Resettlement Plans (ARPs) will be developed when and if necessary, in close consultation with affected stakeholders and the AIIB and IFAD. Clearance of future DRPs/ARPs by the AIIB will be necessary.
4. The objective of CAISARP is to improve aspects of water security and increase agricultural water productivity in Kampong Speu, Kampong Chhnang, Kandal, and Pursat province.
5. The CAISARP will be implemented through various activities organized through the following three components: (i) Component 1. Improving farm-level climate adaptation, resilience, and water use efficiency; (ii) Component 2. Upgrading and climate-proofing water infrastructure for increased resilience; and (iii) Component 3. Institutional strengthening.
6. In Cambodia, the Expropriation Law (2010) is the main legal framework that governs land acquisition and involuntary resettlement (LAR). Under the Article 3 that governs the provision for projects financed by development partners in Cambodia, the RGC issued in 2018 the Standard Operating Procedures on Land Acquisition and Involuntary Resettlement (SOP-LAR). The GDR of the MEF is responsible for providing guidance and clarification to users of SOP-LAR. Given that the proposed CAISARP is financed by the Asian Infrastructure Investment Bank (AIIB) and International Fund for Agriculture Development (IFAD), the SOP-LAR is the guiding RGC's sub-decree for land acquisition and should be read together with this document. This LARPF also complies with the AIIB's Environment and Social Standard (ESS2) and IFAD's Social, Environmental and Climate Assessment Procedures (SECAP) Standard 7. There are some minor, but no significant gaps between the policies of the SOP-LAR, AIIB's ESS2, and IFAD's SECAP Standard 7. Two most relevant is that the SOP-LAR does not have a provision for voluntary donations (VDs) and negotiated settlement as the SOP-LAR addresses involuntary resettlement. This LARPF describes a process for VDs consistent with the AIIB's ESS2, which will be followed for the CAISARP and the required steps and documentation. The approach to manage resettlement under CAISARP follows the mitigation hierarchy by:
 - Adjusting designs to avoid impact on land and assets;
 - When impacts cannot be avoided, minimize them;

- Once risks and impacts have been minimized or reduced, mitigate through compensation payment for affected assets and income generation activities; and
- Where land acquisition impacts remain, compensate people as per this LARPF.

7. This LARPF covers resettlement: (i) where land, or assets, are voluntarily donated; (ii) where land, or assets, are involuntarily acquired. Voluntary contributions, with proper information and documentation as explained in this LARPF, can be justified because irrigation infrastructure rehabilitation will directly benefit farmers for irrigation, water consumptions and fisheries. However, the benefit from an irrigation infrastructure rehabilitation may far outweigh the impact on a small asset such as a small temporary movable farm cottage, trees/crops. Besides the process for VD and involuntary land acquisition, the LARPF also details the institutional arrangements and responsibilities, consultations, information disclosure, funding arrangements and monitoring and reporting.

8. The LARPF applies to permanent or temporary physical and economic displacement as described in the SOP-LAR, and compliant with AIIB's ESS2 and IFAD's SECAP Standard 7. All affected households (AHs) who have assets in the Corridor of Impact (COI) before the Cut-Off-Date (COD) will be eligible for compensation as described in this LARPF, regardless of their legal status. COD is the date established by the government that establishes the eligibility for receiving compensation and the resettlement assistance by the project affected persons. The COD needs to be well-documented. Persons not covered may be eligible in case they can show proof that they have inadvertently missed out during the census.

9. Based on the scope, scale, and nature of potential subprojects, the CAISARP may involve minor land acquisition – both permanent and temporary, to facilitate rehabilitation/upgrading of existing reservoirs, irrigation canals, weirs, barrage, including construction of new water distribution system (to increase command areas), and so forth. Physical resettlement of local people is envisaged but could be avoided through alternative designs since existing works are in remote rural areas where local population is small and scattered. If permanent land acquisition is required at subproject level, public land will be prioritized. If not feasible because of technical requirements, private agricultural land would be acquired which is anticipated to be of small-scale at household level due to linear land impact, particularly where land is required for building new canals to extend existing water distribution system for new command area. It is noted that as existing reservoirs are upgraded to increase water retention capacity (impounding additional water amount), both upstream and downstream impacts are anticipated but scope and magnitude of land impacts may vary depending on various factors such as maximum water retention capacity, water flow regulation during subproject operation, seasonal rainfall, current land use (for upstream) and water use (for downstream). Upstream impact might include extended inundation (area and time duration) which may restrict local land access for agriculture/non-agricultural income generation activities, and/or animal raising, etc. Downstream impact may include restricted access to normal volume of water for farming/water supply purposes, and so on.

10. The LARPF outlines the Grievance Redress Mechanism to be established as a locally based arrangement for receiving, recording, assessing, and facilitating the resolution of complaints and grievances raised by the affected persons in relation to the CAISARP. The LARPF also describes the process for consultation and information disclosure in cases of VDs and for land acquisition.

1. INTRODUCTION

1.1 Project Background

1.1.1 Project Context

11. Cambodia's irrigated agriculture faces increasing challenges from adverse impacts of climate change, especially the changes in rainfall patterns, duration and timing of the rainy season, and climate induced water disasters such as floods and droughts. Climate Resilient and low emission practices and investments in agriculture and water management are therefore crucial to protect and enhance Cambodia's agricultural production and productivity which will in turn contribute to poverty reduction and increased food security.

12. Addressing the complex impacts of climate change on rain fed and irrigated agriculture requires action at both farm and irrigation scheme, including enabling environment at regional and national level. Farm level actions will help communities adapt to climate change while also saving water and decreasing Green House Gas (GHG) emissions from BAU of agriculture, water use and management. This will help farmers to diversify their farming while also addressing changing rainfall patterns and increasing drought conditions throughout the growing season. Actions at system level will help achieve a modernized and climate proofed irrigation infrastructure delivering irrigation services to farmers in line with the requirements at the farm level. It will also protect the natural capital stocks, especially the land and water, against the increasing threats of flood. In addition, replacement of diesel pumps with solar pumps and combination of both grey and green solutions for irrigation modernization and flood proofing works will help reduce GHG emissions.

13. The integrated actions combining both farm and system levels has a transformative potential to reduce vulnerability of water and agriculture systems to climate change impacts while also reducing GHG emissions and enhancing the livelihood of rural populations who primarily depend on agriculture.

14. The theory of change diagram demonstrates how the project shifts the BAU from poorly constructed and maintained irrigation systems to a smart, climate resilient water management system with climate proofed irrigation and flood control infrastructures for smallholder farmers. The project's outcomes and outputs are in-line with Global Climate Fund's adaptation and mitigation goals, objectives, and long-term sustainability principles.

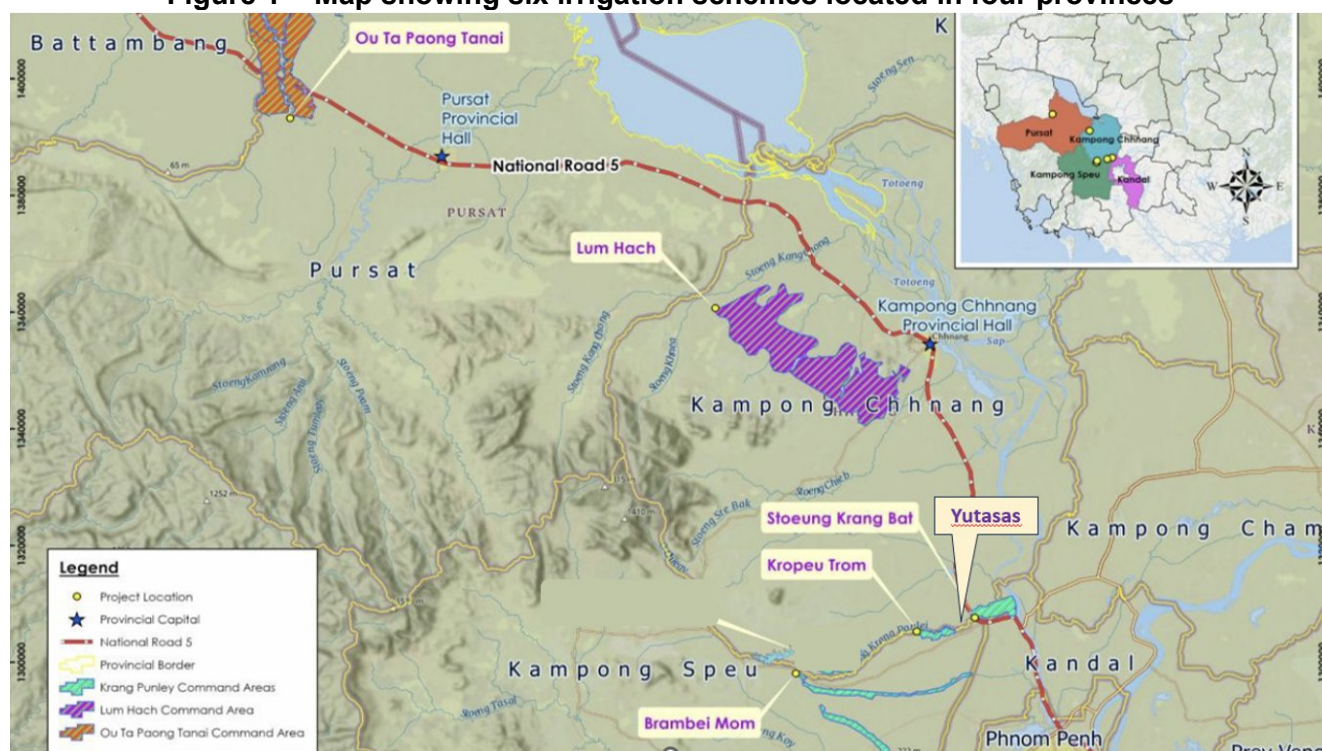
15. The paradigm shifting aspects of the CAISARP will include the data driven climate-proofing of irrigation infrastructure and focus on last-mile engagement of vulnerable communities. The Terms of Condition shows that if climate resiliency of irrigated agriculture is enhanced then the agricultural outputs and income of small-scale farmers will increase, as well as the climate resilience of vulnerable households and in particular to women will increase because water and food systems are less vulnerable to increasing temperatures, changing rainfall patterns and the extreme water events, and low-emission irrigation and sustainable agriculture adaptation practices will contribute to Nationally Determined Contributions mitigation targets.

16. The project's goal stated above shall be achieved through the generation of the following three outcomes: (1) Improved resiliency of small holder farmers (2) Resilient water control infrastructure and water service delivery with less crop and asset damage and (3) Reduced GHG emission. These three outcomes are derived from interventions at farm and irrigation system level together with institutional strengthening of relevant stakeholders and will contribute towards an irrigated agricultural system that is climate resilient and productive ultimately reducing the climatic vulnerability of poor farmers in the CAISARP areas.

1.1.2 Project Development Objective and Project Components

17. The objective of CAISARP is to increase climate adaptation, mitigate the negative impact of extreme climate events and improve livelihoods of smallholder farmers and vulnerable rural communities in four provinces of Cambodia in Kampong Speu, Kampong Chhnang, Kandal, and Pursat province (Figure 1).

Figure 1 – Map showing six irrigation schemes located in four provinces



Source: CAISAR Feasibility Study July 2023

18. The proposed CAISARP will be implemented through various activities organized through the following three components:

- Component 1. Improving farm-level climate adaptation, resilience, and water use efficiency
- Component 2. Irrigation Infrastructure for increased resilience
- Component 3. Institutional strengthening

1.1.3 Project Budget and Implementation Agency

19. The proposed CAISARP will be implemented by the Ministry of Water Resources and Meteorology (MoWRAM) from 2025 to 2031 with an estimated cost of US\$240 million.

1.2 Rationale and Purpose of the Resettlement Planning Framework

1.2.1 Rationale

20. The Asian Infrastructure Investment Bank's (AIIB) Environment and Social Standard (ESS2) on Land Acquisition and Involuntary Resettlement (LAR) and the International Fund for Agriculture Development's (IFAD) Social, Environmental and Climate Assessment Procedures (SECAP) Standard 7 requires that Borrowing country prepares a Land Acquisition and Resettlement Planning Framework (LARPF) in case a project requires land acquisition and/or have restriction on land use, but impact zones of the subprojects cannot be determined during project preparation. Under this CAISARP, since land acquisition are anticipated and the number, nature, and scale of subprojects have not been confirmed during project preparation stage, this LARPF is prepared in accordance with AIIB's Environmental and Social Framework (ESF), specifically: ESS1 and ESS2; the IFAD's SECAP – Standard 7, and in compliance with the Royal Government of Cambodia's relevant laws and regulations, including the Sub-Decree No.22 ANK/BK (2018) on Promulgation of the Standard Operating Procedures for Land Acquisition and Involuntary Resettlement (SOP-LAR) for externally financed Projects in Cambodia.

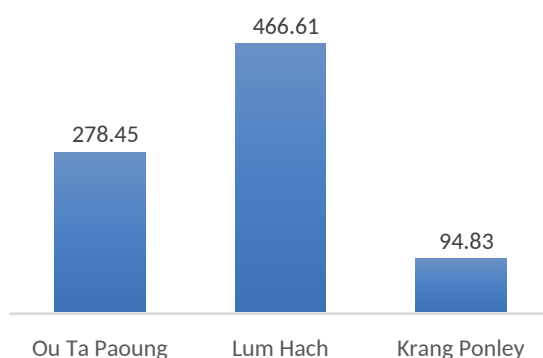
1.2.2 Purpose

21. The purpose of this LARPF is to establish principles and procedures for consultation with affected households, compensation payment, resettlement, eligibility criteria for affected households, entitlements and livelihoods restoration plan, implementation arrangements, a grievance redress mechanism, monitoring and reporting arrangements, estimated costs and budget, etc. which are to be applied to prepare Resettlement Plan(s) for relevant subprojects to be finalized/confirmed during CAISARP's implementation. This LARF is intended to avoid or minimize any adverse impacts associated with physical or economic displacement, and to ensure arrangements are in place to mitigate any adverse impacts that may occur. The Borrower agrees to apply the principles, procedures, and standards incorporated in ESS2 of the AIIB ESF and the IFAD's SECAP Standard 7 if obtaining any sites for project use would cause economic displacement or physical displacement.

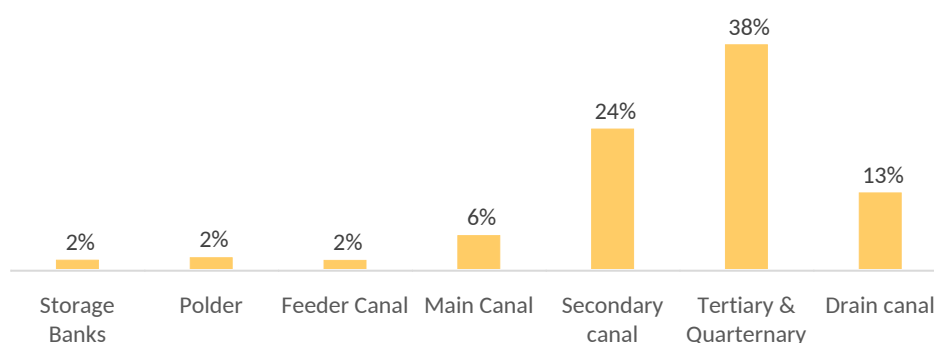
2. PRELIMINARY ASSESSMENT OF LAND ACQUISITION & RESETTLEMENT IMPACT

22. The proposed CAISARP will rehabilitate existing irrigation canals and build new irrigation channels in an estimated six schemes located in four provinces (Kampong Speu, Kampong Chhnang, Kandal, and Pursat). In some subprojects, small-scale roads will be built alongside existing/new canals to improve transportation of farm produce for the rice farmers. Due to the construction of new canals and roads, land acquisition of small scale may be required. However, the scope of land acquisition is expected to be small at household level (linear impact) and as such would not affect remarkably the livelihood of those who are land based. Physical resettlement is anticipated but the number of affected households would be very small because most land acquisition (required for construction) would take place in the command area where residential houses are not present. An estimated 839ha of public and private land (Figure 2) would be required for the planned construction of irrigation systems at subproject command areas, including Ou Ta Paong Tanai, in Pursat province, Lum Hach in Kampong Chhnang province, and Krang Ponley which including sub project areas—Brambei Mom, Chhean Laeung, Krapeu Trom, Stoeng Krang Bot, in Kampong Chhnang, Kapong Speu and Kandal provinces (Figure 1).

Figure 2 – Estimated land need (hectare) for construction of irrigation system



23. Of the total land (about 839ha) to be required for construction, most of the land that are required for project construction are within the command areas and are at tertiary and quaternary canals (38%), followed by secondary canal (24%), drain (13%) (Figure 3).

Figure 3 – Estimated land acquisition by type of construction

- **Physical resettlement**

24. The proposed CAISARP makes every effort to avoid physical resettlement. However, physical resettlement may not be avoidable, particularly in some road sections (located along main canals) where existing roads could be widened which requires some households to resettle.

- **Temporary Restriction of Irrigation Access**

25. During subproject construction, in some irrigated areas, water from existing reservoir may be restricted to facilitate the construction process. However, this temporary impact is anticipated to be minor since most of the current project area is rainfed.

- **Impact on collective land owned by IPs**

26. Based on the above preliminary assessment of the locations of land impact, it is anticipated that there is no land collectively owned by IP community located in the command area (where most land acquisition is required). Under the proposed CAISARP, impact on land collectively owned by IP community, if any, will be avoided through alternative designs.

3. LEGAL FRAMEWORK GOVERNING LAND ACQUISITION & INVOLUNTARY RESETTLEMENT

3.1 National Laws and Regulations

27. **The Expropriation Law (2010)** is the key legal framework that governs land acquisition and involuntary resettlement in the Kingdom of Cambodia. The law defines land expropriation in the Kingdom of Cambodia by specifying principles, mechanisms, procedures required for land expropriation and for fair and just compensation for affected peoples under any construction, rehabilitation, and public infrastructure projects implemented for public and national interest, and for the development of Cambodia. The law defines the development of public infrastructure as one of its objectives and extends the definition of public infrastructure to any infrastructure “required by the Nation in accordance with the determination made by the government.” Public interest is also understood in a broad manner as “the use of land or property by the public or by public institutions or their agents.” The expropriation of the ownership of immovable property and real right to immovable property can be exercised only if the Expropriation Committee has paid fair and just compensation to the owner and/or holder of real right in advance.

28. Key articles of the Expropriation Law (2010) are:

- **Article 2:** The law aims to: (i) ensure just and fair deprivation of legal rights to private property, (ii) ensure prior fair and just compensation, (iii) serve the national and public interest, and (iv) develop public physical infrastructures;

- **Article 3:** Under the Article 3 of the Expropriation Law (2010) that governs the provision for projects financed by Development Partners in Cambodia, the RGC issued the SOP-LAR in 2018. The SOP-LAR reflects the policies, regulations and procedures relating to the acquisition of land and the involuntary resettlement consistent with the safeguard policies and procedures of the development partners like AIIB, IFAD, ADB, WB, and incorporates international good practices in resettlement planning, implementation, monitoring and reporting. The SOP-LAR has a specific provision which stipulates that where a provision conflicts with the mandatory safeguard requirement of the Development Partner, then the later will prevail;
- **Article 7:** Only the State may carry out an expropriation for use in the public and national interests;
- **Article 22:** The amount of compensation to be paid to the owner of and/or holder of real right to the immovable property shall be based on the market prices or replacement costs as of the issuance date of the declaration on the expropriation project. The market prices or replacement costs shall be determined by an independent committee or agent appointed by the Expropriation Committee;
- **Article 29:** A tenant of the immovable property with proper contract shall be entitled to allowance for disturbances because of the expropriation including the dismantling of structures, materials, and transportation to the new relocation site. A tenant of the immovable property who is operating a business shall be entitled to compensation for the impact on their business operation and to additional assistance at fair and just compensation to the capital value actually invested for the business operation activities as of the date of the issuance of the declaration on the expropriation project. For the expropriation of a location that is operating business activities, the owner of the immovable property shall be entitled to additional compensation at fair and just compensation against the value of the property actually affected by the expropriation as of the date of the issuance of the declaration on the expropriation project.

29. **RGC's Sub-Decree No. 22 ANK/BK (2018) on the Promulgation of the Standard Operating Procedures for Land Acquisition and Involuntary Resettlement (SOP-LAR) for Externally Financed Projects in Cambodia.** The General Department of Resettlement (GDR) of the Ministry of Economic and Finance (MEF) is responsible for providing guidance and clarification to users regarding the SOP-LAR. Given that the proposed CAISARP will use counterpart funding for compensation and support, the provisions of SOP-LAR will apply to the proposed CAISARP and therefore should be read in conjunction with this LARPF.

30. **Sub-Decree No.19 on Social Land Concession of March 2003** provides for allocations to landless people of state lands for free for residential or family farming purposes, including the provision of replacement land lost in the cases of involuntary resettlement.

31. **RGC's Sub-Decree No.118 ANK/BK (2005) on State Land Management.** The Sub-Decree defines principles, procedures, mechanisms, and institutional arrangement for state land management. In line with key sections of Article 4, public state land has a public interest use and falls within one of the following specific types of property having a public interest use:

32. Properties that have a natural origin, such as

- Forests
- Courses of navigable or floatable water
- Natural lakes
- Banks of navigable or floatable waters

33. Properties available in its natural state or specifically developed for public use, such as

- Roads
- Tracks
- Oxcart ways
- Pathways
- Gardens and public parks
- Reserved land

34. **RGC's Sub-Decree No.98 ANK/BK (2015) on River Basin Management.** The Sub-Decree regulates the management, conservation, and development of the river basins in a manner that is effective and sustainable – as stated in the Law on Water Resources Management in the Kingdom of Cambodia (2007). The Sub-Decree specifies procedures for establishment and implementation of the plans for management, conservation and development of the river basin, sub-river basin, watershed, ground water and aquifer.

35. Key chapters and articles of RGC's Sub-Decree No.98 ANK/BK (2015) on River Basin Management are:

- **Chapter 3 River Basin Zoning and Delineation of Riparian Land, Article 8:** The distance of riparian and coastal strips along key natural water features and water works in rural areas of river basins is defined below:
 - o Coastal strip and estuary 100 (one hundred) meters from the coastal bank and estuary bank;
 - o River 50 (fifty) meters from its bank;
 - o Stream 30 (thirty) meters from its bank;
 - o Creek 20 (twenty) meters from its bank;
 - o Small stream 10 (ten) meters from its bank;
 - o Main channel 10 (ten) meters from the terrace of channel embankment;
 - o Distribution channel 5 (five) meters from the terrace of channel embankment;
 - o Irrigation channel 3 (three) meters from the terrace of channel embankment;
 - o Basin area 100 (one hundred) meters from the maximum water level from the basin water surface;
 - o Lakes 50 (fifty) meters from the maximum water level allocated in the reservoir;
 - o Basin embankment 20 (twenty) meters from the terrace beneath the basin embankment of less than 04 (four); 100 (one hundred) meters from the terrace between 4 to 8 meters high. In case the embankment height exceeds 8 (eight) meters high, it shall be determined by separate sub-decree.

36. The riparian land as stated above is the state's public asset. The delineation of riparian land has no retroactivity on existing land with ownership titles issued before this sub-decree is in force.

- **Chapter 4 – Jurisdiction, Mechanism and Committee for River Basin Management, Article 10:** The MoWRAM is responsible in leading, monitoring and coordinating and consulting with concerned institutions for the management, conservation, and development of all river basins in the Kingdom of Cambodia.

3.2 AIIB's Environmental and Social Framework

37. The AIIB Environmental and Social Framework (ESF) sets out the requirements for all Bank supported operations to comply with the Bank policies addressing environmental and social impacts, among other policies¹⁵. The following AIIB's Environmental and Social Standards (ESSs) applies to this LARPF:

- **ESS1: Environment and Social Assessment and Management**

The objectives of ESS1 are to achieve the environmental and social soundness and sustainability of Projects and to support the integration of environmental and social considerations into Project

¹⁵ <https://www.aiib.org/en/policies-strategies/download/environment-framework/AIIB-Environmental-and-Social-Framework-ESF-November-2022-final.pdf>

decision-making process and implementation. The ESS1 applies if the Project is likely to have adverse environmental risks and impacts or social risks and impacts (or both). The scope of the environmental and social assessment and management measures are proportional to the risks and impacts of the Project. ESS1 provides both for quality environmental and social assessment and for management of risks and impacts through effective mitigation and monitoring measures during the course of Project implementation.

- **ESS2: Land Acquisition and Involuntary Resettlement**

The objectives of ESS2 are (a) to avoid Involuntary Resettlement wherever feasible; (b) to minimize Involuntary Resettlement by exploring Project alternatives; (c) where avoidance of Involuntary Resettlement is not feasible, to enhance, or at least restore, the livelihoods of all displaced persons in real terms relative to pre-Project levels and to provide resettlement assistance; (d) to understand and address gender-related risks and differential impacts of Involuntary Resettlement; (e) to improve the overall socioeconomic status of the displaced poor and other vulnerable groups; and (f) to conceive and implement resettlement activities as sustainable development programs, providing sufficient resources to enable the persons displaced by the Project to share in Project benefits.

3.3 IFAD's Social, Environmental and Climate Assessment Procedures

38. The IFAD's Social, Environmental and Climate Assessment Procedures (SECAP) comprise key requirements for the environmental and social sustainability of projects. Under the CAISARP, IFAD's SECAP Standard 7 – Physical and economic resettlement applies.

39. The objectives of SECAP Standard 7 are (i) Avoid involuntary resettlement or, when unavoidable, minimize involuntary resettlement by exploring alternative project designs and sites; (ii) Avoid forced eviction; (iii) Ensure that resettlement activities are planned and implemented collaboratively with the meaningful participation of affected people; (iv) Enhance and restore the livelihoods of all displaced people; and (v) Provide explicit guidance to borrowers/recipients/partners on the conditions that need to be met regarding involuntary resettlement.

40. This Standard applies to CAISARP because the project involves displacement and resettlement. The displacement may be full or partial, permanent, or temporary, and could result from a variety of project activities. This Standard also applies to any physical or economic displacement for purposes relevant to the project before IFAD's involvement. Application of this Standard must be consistent with universal respect for fundamental human rights and freedoms, the principles of non-discrimination, equal opportunity and fair treatment, and the right to private property, adequate housing and improvement of living conditions.

3.4 Gap Analysis: AIIB ESS2, IFAD SECAP, and RGC SOP-LAR

41. The AIIB's ESS2 and IFAD's SECAP Standard 7 recognizes that project related land acquisition and restrictions on land use can have impacts on communities and persons. AIIB's ESS2, IFAD's SECAP Standard 7, and RGC's SOP-LAR have specified its objectives and principles of LAR to ensure affected people are not worse off because of land acquisition. The principles of the AIIB's ESS2, IFAD's SECAP Standard 7, and the RGC's SOP-LAR are largely similar on consultation, grievance redress, social support, livelihood restoration, resettlement assistance, standard of living of poor and vulnerable, entitlements for persons without title or legal rights except for land, information disclosure, payment of compensation and entitlements prior to physical displacement, and the supervision and monitoring of implementation of resettlement plans. The key departure is on the requirement on **negotiated settlement**.

However, in terms of procedures, the SOP-LAR does not have procedures for negotiated settlement and Voluntary Donations (VD). Since the GDR has a lot of experience in acquiring land through a negotiated settlement, particularly under Asian Development Bank and World Bank financed projects, the negotiated settlement approach could be applied to CAISARP. To assist the GDR in conducting

acquisition of land through a negotiated settlement, this LARPF spells out the detailed procedures that the GDR will follow in case involuntary acquisition of land through negotiated settlement.

42. The key requirements under AIIB ESS2, IFAD SECAP 7 and the corresponding provisions in the RGC's SOP-LAR demonstrating any gaps in voluntary land donations and clarifications on LAR are summarized in Table 1.

Table 1 – Summary of Gaps and Clarifications Between RGC’s SOP-LAR, AIIB’s ESS2, and IFAD’s SECAP Standard 7

Items for Clarification	RGC’s SOP-LAR	AIIB’s ESS2	IFAD’s SECAP Standard 7	Clarifications
Livelihood Restoration	SOP-LAR details specific measures to restore livelihoods which are land-based, employment-based and business-based.	Restore livelihoods through (i) land-based resettlement strategies, where possible or cash compensation at replacement values plus transitional cost; (ii) prompt replacement of assets with assets or equal or higher value; (iii) prompt compensation at replacement value; (iv) capacity building programs; additional revenues through benefit sharing.	Action plans have been designed to enhance and restore the standards of living and livelihoods of affected persons. Such plans will address, at a minimum, the following element: Established eligibility criteria, cut-off dates, compensation and entitlements for all categories of affected persons. Measures to provide (a) fair and just compensation; (b) transition support (both financial and in-kind); and (c) assistance such as land development, credit facilities, direct benefits, training and provision of expertise, as appropriate.	There are no gaps. Based on RGC’s SOP-LAR, an Income Restoration Program would be provided in order to re-establish sources of livelihoods for all APs who have permanently lost any of their sources of livelihood. If applicable in CAISARP, DRPs will include provisions to ensure livelihood restoration programs are robust and can accurately meet the livelihood restoration objectives in line with AIIB’s ESS2 and IFAD’s SECAP Standard 7.
Compensation and Resettlement Assistance	The SOP-LAR includes the compensation and transition/disturbance allowance to the DPs in its entitlement. The SOP-LAR has provisions for relocation land (for DPs with title or recognized rights to land) and are subject to conditions (e.g., availability of government land).	Provide DPs needed assistance: (i) <ul style="list-style-type: none"> • If relocated, security of tenure rights as strong as DP had to the prior land; • Proper housing at resettlement sites with comparable access to employment/production opportunities; and • Social and economic integration into host communities. <ul style="list-style-type: none"> • Transitional support; and • Development assistance such as land development assistance, credit facilities, training or employment opportunities civic infrastructure and community services	Provide (i) fair and just compensation at full replacement cost prior to displacement (based on the cost of replacement at resettled sites and locations) for any losses of personal, real or other property or goods, noting that compensation and support may be collective in nature; (ii) transitional support (both financial and in-kind) based on reasonable estimates of the time required to restore and improve income earning capacity, production levels and living standards; and (iii) assistance with land development, credit facilities, direct benefits, training or employment opportunities, and expertise as needed (the combination of compensation, transitional support and assistance is aimed at enhancing and restoring displaced persons’ pre-displacement productive capacity and earning potential).	There are no gaps. This LARPF will align with the SOP-LAR’s provisions on compensation and assistance.
Grievance Redress Mechanism	Appendix 8 of the SOP-LAR provides the structure and details on the operating guidelines and procedures of an effective functioning	Establish a suitable grievance mechanism to receive and facilitate the resolution of concerns of DPs; utilize existing formal or informal grievance mechanism;	All borrowers/recipients/partners must ensure that an effective, accessible and culturally appropriate grievance redress mechanism is established to facilitate the resolution of concerns and complaints (e.g.,	There are no gaps. The SOP states that there will be consultations with APs at various stages including during Basic Resettlement Plan and RP preparation. Prior to the preparation of the RP,

Items for Clarification	RGC's SOP-LAR	AIIB's ESS2	IFAD's SECAP Standard 7	Clarifications
	<p>Grievance Redress Mechanism. It provides a 3-step process including the registration and recording of complaints and the judicial process if the complaints remain unresolved at the administrative level. The detailed procedures for at each step are also provided in the SOP-LAR.</p>	<p>supplemented by the project specific mechanism.</p>	<p>compensation, relocation or livelihood restoration) by affected individuals.</p>	<p>consultation is carried out to confirm eligibility criteria and discuss entitlement matrix, as well as to introduce GRM. In addition, the copies of the Guidelines for GRM are translated in Khmer or/and IPs' language and provided and explained in detail to the APs during the public consultation process. There are clear mechanisms for grievance redress in the SOP.</p> <p>While the mechanisms are clearly set out, GDR will ensure it is accessible to all APs, in particular vulnerable APs and women.</p>
Consultations and Stakeholder Engagement	<ul style="list-style-type: none"> • The SOP-LAR details out a number of steps to carry out consultations at various stages of the land acquisition and resettlement process and compensation. • Para 126 mentions that the consultation is undertaken throughout the project cycle. • SOP-LAR provides for stakeholder engagement in respect of land acquisition and involuntary resettlement. The SOP-LAR provides for disclosure of the LARPF to the stakeholders and public before the approval of the project. Similarly, the DRPs are also disclosed to stakeholders and public after approval by the GDR. 	<p>Carry out meaningful consultations with persons to be displaced by the Project, host communities and non-governmental organizations, and facilitate their informed participation in the consultations, consult with all persons to be displaced on their rights within the resettlement process, entitlements and resettlement options, and further participation process. Ensure their involvement in planning. Implementation, monitoring and evaluation of the resettlement plan. Pay particular attention to the needs of vulnerable groups, especially those below the poverty line, the landless, the elderly, women and children, indigenous peoples and those without legal title to land and ensure their participation in consultations.</p>	<p>Ensure that resettlement activities are planned and implemented collaboratively with the meaningful participation of affected people.</p>	<p>Meaningful consultations, inclusive of all groups and gender including vulnerable persons, as per AIIB's ESS2 should be conducted, with particular attention to ensuring it is a two-way process, that allows for feedback from APs and they are informed how their feedback was incorporated.</p>
Voluntary Donation (VD)	<ul style="list-style-type: none"> • The SOP deals with land acquisition and involuntary 	<p>AIIB's ESS2 prescribes that where affected people choose to</p>	<p>There is no Standard applicable to resettlement resulting from voluntary</p>	<p>SOP-LAR does not prescribe VDs. However, this LARPF provides guidance</p>

Items for Clarification	RGC's SOP-LAR	AIIB's ESS2	IFAD's SECAP Standard 7	Clarifications
	resettlement and therefore does not provide guidance on VDs.	voluntarily donate land or assets without payment of full compensation, based on conditions (a) the potential donor or donors have been appropriately informed and consulted about the project and the choices available choices regarding the land and their implications, including refusal to donate the land, and has confirmed in writing their willingness to proceed with the donation; (b) the amount of land being donated is minor and will not reduce the donor's remaining land area below that required to maintain the donor's livelihood at current levels; (c) no household relocation is involved; (d) the donor is expected to benefit directly from the project	transactions.	on when VDs would be appropriate and the process of carrying out the donations, including documentation which will need to be followed by MoWRAM.

4. SCOPE AND APPLICATION, PRINCIPLES AND PROCESS

4.1 Scope and Application

43. This LARPF pertains to situations of permanent or temporary resettlement and economic displacement directly resulting from the CAISARP within the subproject area. These situations should align with the RGC's SOP-LAR and comply with the AIIB's ESS2.

44. It's important to note that this LARPF does not encompass impacts on incomes and livelihoods that are not directly influenced by CAISARP's land acquisition or land use restrictions. Such impacts will fall under AIIB's ESS1 on Environmental and Social Assessment and Management. They will also be addressed in accordance with CAISARP's Environmental Code of Practice (or, if deemed necessary, through the development of an Environmental and Social Management Plan specific to the respective subprojects).

45. In cases where a VD procedure is applied to households affected by the subproject, the MoWRAM must document the entire land donation process following the guidelines provided in this LARPF. It is important to emphasize that AHs have the right to refuse participation in this procedure.

46. Under exceptional circumstances that necessitate additional land acquisition, the GDR team will carry out a negotiated settlement, as outlined in this LARPF. This applies when there are no more than 20 AHs. However, the willingness of the AHs to engage in a negotiated settlement will be determined during the initial consultation meeting with the community and the AHs.

47. In the proposed CAISARP, efforts will be made to avoid any adverse impact on land collectively owned by Indigenous Peoples (IP) communities through alternative project designs. Meaningful consultation will be conducted with IPs, if applicable, and it should be noted that Free, Prior, and Informed Consultation and Free, Prior and Informed Consent are not required in this specific context.

4.2 Eligibility Criteria

48. People whose assets such as houses, structures, business, crops, etc. are in a subproject area before the COD for the subproject is announced will be eligible for compensation for their affected assets, loss of livelihoods, and livelihood restoration support – regardless of the legal status of the affected land¹⁶. People who occupy any land portion of the subproject area after the COD is publicly announced will not be eligible for any compensation or any other resettlement assistance. Ideally COD should be established at the DMS stage when the full census will be conducted.

4.2.1. Category of Project Affected Persons

49. All AHs who have assets in the COI before the COD will be eligible for compensation and resettlement assistance, regardless of their legal status – as follows:

- a) Those who have formal legal rights to land, including customary and traditional rights recognized under the national laws, will be entitled to compensation for the land they lose, all assets affixed to the land, as well as livelihood restoration measures;
- b) Those who do not have formal legal rights to land at the time the census begins but have a claim to such land or assets—provided that such claims are recognized under the national laws or become recognized through a process identified in the resettlement plan, will be will

¹⁶ With formal legal rights to land or assets; without formal legal rights but with recognized or recognizable claim under national law; with no recognizable legal right or claim to land or assets they occupy and use.

be entitled to compensation for the land they lose, all assets affixed to the land, as well as income restoration measures; and

- c) Those who have no recognizable legal right or claim to the land they are occupying will be entitled to all assets affixed to the land, as well as income restoration measures.

50. Persons covered under a) and b) are provided compensation for the land they lose, and other assistance in accordance with paragraph 6. Persons covered under c) are provided financial assistance *in lieu of* compensation for the land they occupy, and other assistance, as necessary, to ensure they could restore that livelihoods to pre-project level – if they occupy the subproject area prior to a cut-off date established by the borrower and acceptable to the Bank.

4.2.2 Cut-Off-Date

51. The COD for this CAISARP is defined as the date that establishes for receiving the compensation and resettlement assistance by the project AHs. The COD for each subproject financed under the Project will be the date of the completion of the census undertaken during the DMS stage. The COD will be announced in the consultation meeting prior to the DMS. Any persons who encroach upon the subproject's corridor of impact (COI) after the COD will not be eligible for any compensation or assistance. Persons not covered in the census result can be eligible for compensation if they can show proof that they have been inadvertently missed during the census survey.

4.3 Process for Land Acquisition

52. If the survey of the subproject or DED shows that there will be a need for land acquisition and resettlement, MoWRAM will inform GDR after the completion of the survey. In case where there are a small number of AHs or less than 20 AHs, the GDR will acquire the land through **negotiated settlement** outlined in this LARPF. Where there are more than 20 AHs, the GDR will prepare an abbreviated RP (ARP) or a DRP and submit to the AIIB for review and approval.

53. For **negotiated settlement**, the GDR will develop procedures in a transparent, consistent, and equitable manner if land acquisition or changes in land use rights are acquired through negotiated settlement for a subproject, to ensure that the AHs who enter into negotiated settlements maintain the same or better income and livelihood status. To achieve this, GDR will engage an independent external party to validate and document the negotiation and settlement process.

54. If the failure of negotiated settlement results in expropriation, then there is still a need for the preparation of a DRP. Under the provisions of the AIIB ESS2, where impacts on the entire displaced population are minor, or fewer than 200 people are displaced, the GDR may, with the prior approval of the Bank, prepare an ARP, covering such elements as the Bank may specify. Impacts are considered "minor" if the AHs are not physically displaced and less than 10 percent of their productive assets are lost.

4.3.1 Principles of Land Acquisition and Resettlement

55. Under CAISARP, the following specific principles will be applied to guide the whole process of land acquisition and resettlement.

- Avoid involuntary resettlement or, when unavoidable, minimize involuntary resettlement by exploring project design alternatives and prepare a timebound Resettlement Plan.
- Mitigate unavoidable adverse social and economic impacts from land acquisition or restrictions on land use by: (a) providing timely compensation for loss of assets at replacement cost; and (b) assisting AHs in their efforts to improve, or at least restore, their livelihoods and living standards, in real terms, to pre-project levels.
- Improve living conditions of poor or vulnerable persons who are physically and economically displaced to at least the national minimum standards including access to social protection systems. Provide legal and affordable access to land and resources. Non-titled AHs will be provided livelihood allowance and will be fully compensated at replacement cost on assets other than land.
- Legalizable AHs will be legalized and fully compensated at replacement cost for land losses.

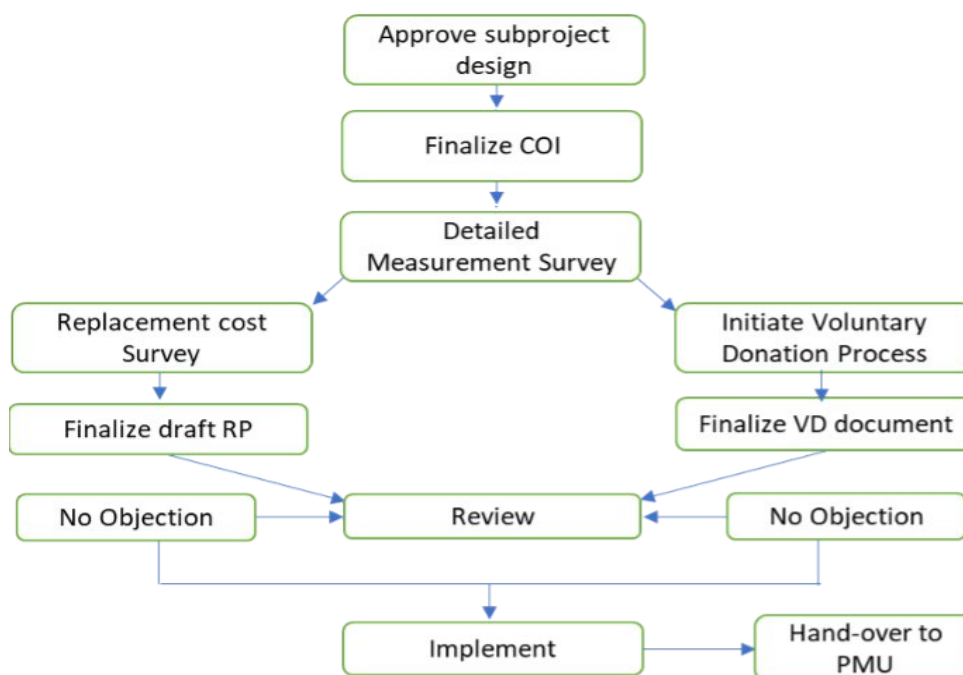
- Establish a transparent, fair, and equitable procedure of land acquisition through negotiated settlement. An independent external party shall be engaged to validate and document the negotiation and settlement process;
- Conceive and execute resettlement activities as sustainable development programs, providing sufficient investment resources to AHs to benefit directly from the project, as the nature of the project may warrant;
- Ensure that resettlement activities are planned and implemented with appropriate disclosure of information, meaningful consultation, and the informed participation of those affected.
- Ensure conduct of meaningful consultations with AHs on social impact assessment, entitlements, disclosure of resettlement information to AHs, and participation of AHs in planning and implementing subprojects. The social impact assessment and Resettlement Plan will be disclosed to the AHs in the local language; and
- Establish a grievance redress mechanism for AHs and stakeholders to address grievances and concerns.
- Pay full compensation to all the AHs who are physically displaced before their relocation.

4.3.2 Key Tasks during Resettlement Process

Once subprojects' detailed engineering designs (DED) are finalized/approved and the need for involuntary land acquisition is confirmed for the subproject, MoWRAM will inform the GDR of the need for land acquisition under the subproject and will share with the GDR the DED and information on the COI. However, before the finalization DED, MoWRAM will invite GDR for a joint site visit to inspect and assess the resettlement impacts and seek GDR's advice on avoidance and minimization of the impacts. MoWRAM will then finalize the DED and COI and submit it to GDR. Based on the DED and COI, GDR will conduct consultation meeting with the AHs, distribute the updated project information booklet (PIB), explain the DMS/SES processes and GRM procedures and then conduct the house-to-house DMS jointly with the AHs. The GRM will be functional prior to the DMS and the updated PIB will include the COD. If the analysis of DMS data shows that AHs have lost their livelihood source permanently, the IRC-WG and PRSC-WG will carry out consultations with the AHs and prepare the livelihood restoration program and include it in the draft DRP.

56. The key tasks in the resettlement process to be undertaken by MoWRAM/GDR are summarized in the flow chart in Figure 4.

Figure 4 – Summary of Key Task in the Resettlement Process



4.3.3.1 Corridor of Impact

Based on the final DED, a field trip will be conducted for land demarcation. The output of land demarcation process is the land areas that are identified as subproject's corridor of impact (COI) within which any assets such as land, houses, structures, crops, fruit and non-fruit trees etc. that are owned by the AH, private sector, or government, local community are considered as affected under the subproject.

57. Once the preliminary design of a subproject is defined, MoWRAM will prepare a PIB prior to feasibility study stage, to be endorsed by GDR. Thereafter MoWRAM with its feasibility study consultants and GDR will conduct the first round of consultations with potential AHs and local authorities to discuss project/subproject information, the benefits potential impacts, anticipated land requirements, compensation policy, entitlements and eligibility. The PIB will be distributed and explained during the consultations.

4.3.3.2 Detailed Measurement Survey

58. Based on the final DED and COI, GDR will make arrangements for establishing the Inter-ministerial Resettlement Committee (IRC) and its Working Group (IRC-WG) and Provincial Resettlement Sub-Committee (PRSC) and its Working Group (PRSC-WG) for conducting the DMS/SES and the replacement cost study (RCS) and liaise with the Commune and Village Offices to inform the AHs and commune/village authorities of this survey exercise before the survey is carried out. The PIB will be updated by GDR which will include the entitlements, GRM processes and procedures and GRM focal contact persons at Commune, District, GDR and PGRC levels A consultation meeting will be undertaken prior to DMS to explain the DMS process, GRM procedures and its operationalization, PPM and the updated PIB will be distributed and explained.

59. DMS will be undertaken as soon as the COI is demarcated. The measurement of the affected land, structures, and other productive assets of each AH or of public facilities to be acquired will be carried out during the DMS to record of the impact at household level, and to prepare corresponding compensation package for each household. The DMS shall be carried out with the full participation

of the AHs to ensure agreement from affected people and avoid potential dispute over incorrect measurements or calculations of compensation payment package. In particular, the DMS team will install pegs/markers to demarcate the affected land and identify assets affected within the COI in the presence of the AHs. This demarcated area will be measured for calculation of the land area and other assets that will be lost. The affected land will also be classified by type of land at this time based on actual land use.

60. The DMS will be conducted by the IRC-WG assisted by the PRSC-WG and relevant local authorities. The RCS will be conducted in parallel with the DMS by an independent agency hired by IRC¹⁷. Based on the results of DMS and RCS, GDR with the assistance of project consultants will jointly update the subproject Basic Resettlement Plans, if any, into draft DRPs or prepare the draft DRPs. The draft DRP will be submitted to AIIB for review and comments. GDR will finalize the draft DRP in liaison with AIIB project team for approval by IRC and will then submit it to AIIB for clearance and disclosure. After the disclosure of the approved DRP, GDR will calculate the compensation amount and subsequently request resettlement budget from RGC.

4.3.3.4 Replacement Cost Study (RCS) and Asset Valuation

61. The RCS will be conducted by a local independent consultant qualified and experienced in asset valuation. The RCS consultant will be hired by GDR. RCS results will be used as the basis for calculating compensation package. The rates will be valid for one year from the date of the approval of the RCS Report by the IRC.¹⁸ In case compensation payment to AHs is late and the compensation unit rates are no longer valid before commencing compensation, the RCS results will be updated by the RCS consultant to reflect the current market prices of the affected assets.

62. The RCS aims to assess the values of affected assets to propose compensation rates for various affected assets – at full replacement cost. Full replacement compensation includes fair market value that is sufficient to replace the affected assets (without depreciation), plus all necessary transaction costs, interest accrued, transitional and restoration costs, and administrative charges related to new land title, construction permits, reasonable moving (relocation) expenses and any similar additional costs potentially borne by AHs. The compensation payment for the lost assets is based on replacement cost for affected assets such as lands, houses, structures, crops and trees prevailing at the time of the DMS. Their proposed asset valuation methods and results will be subject to confirmation and approval of the GDR.

63. The compensation payment package proposed for each AH will be calculated based on the results of the DMS and RCS. The agreement of AHs as to the proposed compensation package for them is confirmed in an official and binding contract between the IRC-WG and the AH. Any errors that are found will be corrected during a one-to-one consultation process of the compensation package with each AH.

64. A binding legal instrument recording all affected assets of each AH which will be signed by the AH and IRC-WG, and witnessed by local authority (normally by the Commune or Village Chief). The compensation and support to be provided to the AHs will be based on the entitlement matrix, final DMS and RCS results as outlined in the ARP/DRP and agreed with AHs.

65. The following procedures will be applied to determine the replacement costs of affected assets:

¹⁷ An independent local consulting firm qualified and experienced in asset valuation will be recruited by GDR to carry out the RCS. The resettlement budget will include the estimate costs of RCS consultancy services.

¹⁸ Ministry of Economy and Finance. Land Acquisition and Involuntary Resettlement para.186 of the Standard Operating Procedure for Externally Funded Projects in Cambodia, 22 February 2018. Phnom Penh, Cambodia.

- a) For replacement costs of land, the RCS Consultant will directly interview households that have recently bought or sold land to collect the evidence of the rate of land transaction, and interview households who are looking for properties to sell or buy within and around the subproject area. The RCS Consultant will also find out from local residents, subject to confirmation/validation through official records of local authorities, the price of various types of land that have been the subject of transactions in the past six months to one year in the community or nearby areas and the prices of various types of land local residents are willing to buy or sell as well as collects data from government offices on recent land transactions and land market assessment.
- b) For structures, the RCS Consultant will interview owners of structures to determine the construction materials usually used in the locality for each type of building following existing government categories or standards; sources of construction materials used and the unit costs of said materials, including the costs of transporting the same to the locality; and the cost of labour for constructing each type of building found in the locality. In the survey, interviews will also be conducted with building contractors to determine the cost of construction materials for each type of structures in the subproject area following existing government categories; the cost of transporting construction materials to the subproject area (community); the cost of labour for constructing each type of building; and the unit cost per meter square of each type of building in the subproject area following existing government categories. The replacement cost will be based on the latest item rates for construction within the subproject area.
- c) For the crops and trees, interviews will be conducted with owners, market vendors and seedling suppliers to determine the current selling farm gate price of fruits or crops in the area and compensated accordingly as described above. RCS will collect data from statistics offices on average yields per type of crop and/or tree identified during the DMS.

66. The inventory of loss (IOL) and the measurements will be recorded and signed by the IRC-WG and the AH and witnessed by the Commune/Village Official, normally the Chief.

4.3.3.5 Detailed Resettlement Plan

67. Table 2 summarizes the key tasks on the preparation of DRP as per the SOP-LAR and compliance with the AIIB's ESS2.

Table 2 – Key Tasks on the Preparation of Detailed Resettlement Plan

Tasks	Requirements
Institutional Arrangements	<ul style="list-style-type: none"> - Establishment of the IRC and IRC-WG. - Establish the Provincial Resettlement Sub-Committee and the Provincial Resettlement Sub-Committee Working Group.
Detailed Measurement Survey	<ul style="list-style-type: none"> - Conduct demarcation of land and DMS (100% survey, 100% Inventory of Losses, and full Census through DMS Questionnaire).
Gender	<ul style="list-style-type: none"> - Gather gender information.
Poor and Vulnerable Groups	<ul style="list-style-type: none"> - Update the database based on DMS. - Determine different categories of poor and vulnerable groups, and the eligibility of each to receive additional assistance package. - Finalize the additional assistance package
Replacement Cost Study	<ul style="list-style-type: none"> - Hire external expert to carry out RCS to determine prevailing market rates to replace lost assets. Methods of valuing affected assets and calculating compensation for each eligible AP or household will be at full replacement cost in line with ESS2 of the AIIB's ESF.
Compensation Package	<ul style="list-style-type: none"> - Update the LARPF Entitlement Matrix to show the full and complete compensation package that will be made available to the AHs.

Livelihood Support Plan (if applicable)	<ul style="list-style-type: none"> - Prepare plan for Livelihood Support Program for permanent loss of sources of livelihood, in consultation and active participation with the AHs and include in the DRP.
Grievance Redress Mechanism	<ul style="list-style-type: none"> - Operationalize GRM at the Provincial level¹⁹ - Outline procedures for handling complaints in line with SOP-LAR, provide details to AHs during the consultation process and ensure it is readily accessible and useful to the AHs
Consultation	<ul style="list-style-type: none"> - Conduct meaningful consultation with AHs at the commune level based on AIIB ESS 2, to inform them of overall entitlements and the method of computation of compensations, as well as the GRM procedures. Seek their feedback of the resettlement process. - Meaningful consultation with AHs eligible for relocation on the Resettlement Sites (if applicable) at commune/village level as per guidelines above - House-to-house consultations to confirm measurement surveys during DMS. - Consultations with APs on compensation rates prior to signing of contracts.
Monitoring and Reporting	<ul style="list-style-type: none"> - Make arrangements, roles and responsibilities for monitoring and reporting of the implementation of the DRP, and the reporting requirements. - Determine scope of internal monitoring.
Formulation of Budget	<ul style="list-style-type: none"> - Prepare estimates of land acquisition costs by GDR.

Source: RGC's SOP-LAR, 2018

4.3.3 Approach for Negotiated Settlement

68. In case of negotiated settlement, the following will be adopted:

- The GDR will prepare an IOLs to pave the way for DMS and RCS which will be conducted to design compensation package for each AH;
- The RCS will help calculate the replacement value at current market price including transaction costs, interest accrued, transitional and restoration costs, and any other applicable payments, if any of affected land and assets such as houses, structures, and trees, etc. Where market rates for land are unavailable, the RCS unit rates will be developed in consultation with the AHs or land users to determine the compensation amounts for the land to be purchased and the assets attached to the land.²⁰;
- If there is loss of income, the RCS consultant will calculate the number of losses based on the project's Entitlement Matrix (Annex 3 of this LARPF);
- In case of loss of fruit trees, the RCS consultant will calculate the economic loss based on maturity and formula shown in the Entitlement Matrix;
- If there is physical displacement, transition allowances will be provided at the rates shown in the Entitlement Matrix;
- The total amount of compensation will be calculated and offered as a lump sum amount;
- Conduct consultation and negotiation with the landowner/land user, and negotiation to be conducted in good faith, and all relevant information has been provided to and understood by the landowner including project use of land, terms and conditions of the agreement. This will be adequately documented;
- A contract will be prepared, showing the total amount of compensation and the breakdown to facilitate negotiation with each AH. Once agreed, a Minutes will be

⁸ The MEF will facilitate the establishment of a Provincial Grievance Redress Committee (PGRC) which will be responsible for addressing grievances for all externally financed projects located in the respective province/city. The PGRC will be established by the Provincial Governor in consultation with the IRC.

²⁰ The cost of compensation equivalent to replacement cost will look at information on recent transactions, quality and type of land, crop cycles and production, and land availability.

prepared and signed by the AH, that both spouses or single heads of households will be required to sign and the IRC-WG with the witness of the Commune or Village official;

- If all AHs agree with their lump sum compensation package, the lump sum amount will be paid upon contract signing;
- A report on the process and results of the negotiated settlement will be prepared after completion of compensation payment and will be submitted to the AIIB;
- In case an AH does not agree on the proposed negotiated settlement option, the offer of negotiated settlement for all the AHs will be withdrawn and the GDR will prepare a DRP for submission to the AIIB for review and approval;
- A report on a negotiated settlement will be prepared after the process is completed and submitted to the AIIB.
- GDR will engage an independent external party to validate and document the negotiation and settlement process.

4.3.4 Approach for Voluntary Donation

69. Voluntary land donation will be the sole responsibility of MoWRAM. The GDR will not be involved in the voluntary land donation process.

70. The Voluntary Donation (VD) process should be initiated only when census survey/IOL, DSM, are completed (See Figure 3 above). When VD is the case, an AR) or a DRP will not be prepared. MoWRAM will ensure that only potential donors who meet pre-requisite are approached to tender VD as an option (See Eligibility Criteria at Section 4.3.4.2 below). The potential donors/AHs have the right to refuse to donate their affected assets if they don't wish to.

71. The VD process will be transparent. All potential donors will be informed of their choice for VD and will be consulted fully and appropriately. MoWRAM will be responsible for full and careful documentation of the entire VD process which will be subject to AIIB's prior review and approval.

4.3.4.1 Principles

72. Under CAISARP, the principles below will be adopted:
- a) The donor will be fully informed about the subproject and available choices regarding the land and their implications, including refusal to donate the land, and need to confirm in writing their willingness to proceed with the donation;
 - b) The amount of donated land is minor and will not reduce the donor's remaining land area below that which is required to maintain the donor's livelihood at current levels;
 - c) No physical household relocation is involved;
 - d) The donor is expected to benefit directly from the subproject; and
 - e) Donations from collective land owned by IPs, if any, are not accepted.

4.3.4.2 Eligibility Criteria

73. **For households who are willing to donate**, all conditions below must be met:
- Donating household must not be from any vulnerable households – as defined by the Project and must be direct beneficiary household of the planned subproject;
 - Donated land must be minor in nature, and must not exceed 5% of the land plot to be donated;
 - Affected assets (intended to be donated) should be lower than 400,000 Riels in value per household and donation of affected land or assets shall not reduce the donor's remaining area below that required to maintain the donor's livelihood at current level;
 - No physical or economic displacement of AH is involved except for minor shift back at same location which will be financed under the subproject budget to restore to pre-existing condition;
 - Donating person/people should have sole ownership to the land portion and is free from any legal land disputes;

- Donated household bear no fees related to the transfer of the ownership of the donated plot of land. Any fees or taxes owed for processing or registration of the land transfer, if applicable, are paid in full by the Project; and
- All AHs will be informed of project's grievance redress procedures.

For households who do not wish to donate.

- Technical design will be adjusted, if technically feasible, to avoid the land impact.
- If avoidance of land impact is not possible, compensation payment will be made to the affected people in accordance with the Entitlement Matrix of this LARPF.
- Eminent domain or other powers of the state shall not be used for those who refuse donating affected land or assets.

4.3.4.3 Key Steps in Conducting Voluntary Donation

Step 1. Conduct Initial Screening for VD Eligibility

For each subproject, based on the final COI, MoWRAM will:

- Collect key demographic data²¹ about affected individuals/households within the subproject COI;
- Collect information on the magnitude of land and/asset impacts based on the IOL;
- Screen to identify individuals/households who are potentially qualified for VD, using the Eligibility Criteria in Section 4.3.4.2 (above);
- Summarize this step using the form in **Annex 2**.

Step 2. Consult with Potential Donors

- In collaboration with Commune and village Council, convene meetings with potential donors qualified from Step 1;
- Explain to potential donors all the details of VD procedures (Section 4.3.4.3), highlighting the affected peoples' right to compensation. Donor could donate portion of affected land and/or other non-land assets if they wish;
- Provide potential donors with sufficient time to consider his or her disposition of the property and has knowingly rejected the right to renege on his or her decision.
- Identify if there are anyone who are using the part of land intended for donation; if there is, consult with them to obtain their consent related to planned donation;
- Finalize the list of donors who wish to donate affected assets;
- Establish a formal statement of donation which will be signed by each owner and user involved, if any, including obtaining donor's informed consent and confirmation there is no dispute associated with part of land that is being considered for donation. There are also no claims by renters, users, squatters, or encroachers (use Form in Annex 2);
- Submit VD documents to the AIIB for review and approval.

Step 3. Start Donation Process

- Proceed the formal procedures for donating the part of land/asset following the government's procedures;
- Hand over/transfer of land title of the donated land to the Project;
- MoWRAM will maintain all records of asset donations and ensure supporting documents are available for review in case where grievance arises;

²¹ Demographic data may include information about household members such as names, age, education, ethnicity, sex, etc.

- MoWRAM will document fully and carefully the entire VD process and compile a report which includes the followings:
- Subproject name, location, geographical area (including timing of the report and disclosure information);
- Description of the subproject's construction work site/section, the COI and the extent of impacts on assets (attach Annex 1);
- Description of consultation activities and procedures that have been undertaken to ensure donors are appropriately informed of the project's VD procedures and requirements, including their rights to choosing compensation payment or opting for VD;
- A detailed list of assets voluntarily donated and corresponding donors, disaggregated by gender (attach Annex 2);
- Minutes of consultation, including consultation process and consultation outcomes as to asset donation, and grievance redress mechanism;
- Ensure that VD process is regularly monitored as part of MoWRAM's internal monitoring arrangement.

4.3.4.4 Responsibilities

74. In collaboration with Commune Council, MoWRAM will:

- Develop fair and transparent procedures for VDs in consultation with affected households (AHs) and the communities;
- Provide guidance to and ensure that the Chief of the involved Commune prepares a Voluntary Land Donation Report, following the guidelines outlined in the Commune/Sangkat Fund Project Implementation Manual. This report should confirm that all affected households have been fully informed about the subproject and their right to refuse donating their land and/or other assets;
- Ensure the detailed design avoids impacts on land, houses, structures and other fixed assets. When avoidance is not possible, effort shall be made to minimize such impacts;
- Screen for eligible donating household(s) who meet the donation prerequisite (See Section 4.3.4.1 – Principles) to explore they wish to make voluntary contribution based on the VD principle;
- Ensure eligible potential donating household(s) are appropriately informed²² that by donating their affected land and/or asset for the subproject purpose, they are reneging on their right to compensation;
- Ensure donating households are those who receive direct benefit from the planned subproject (e.g., access to irrigation, flood protection, etc.)
- Ensure that donated assets are owned and used by the owner, and that if others are using the asset, land or asset users are fully consulted on the potential donation by the asset owner²³;

²² "Appropriately informed" means that the potential donor has all available information regarding the proposed project activity and its impacts, its land requirements, and its alternative activity sites, as well as the potential donors' rights to compensation as per this LARPF. The potential donor has also been provided with sufficient time to consider his or her disposition of the affected assets and has knowingly rejected the right to renege on his or her decision.

²³ For instance, if part of a business stall is leased and is being donated by the owner, the person leasing the stall should also be consulted.

- Ensure that the person donating land/asset pays no fee associated with their donation. Any fees or taxes incurred to land donation and any update of land ownership documents are covered by MoWRAM;
- Obtain the consent of the community involved, including individuals who are using or occupying the land in case where community or collective land is proposed for donation;
- Keep AHs informed timely and appropriately about the VD process, including their rights and project's grievance redress procedure (See Section 6 of this document);
- Inform potential donors of their right in deciding the extent of their VD (out of the total impact that the project may cause to them);
- Attention shall be paid to vulnerable/ disadvantaged group, such as Indigenous Peoples, women, the elderly, where relevant;
- Resolve any grievances that may occur in relation to VD process; and
- Ensure that the entire VD process and its outcome is fully and timely documented by MoWRAM and submitted to the AIIB for review.

4.4 Project's Compensation, Livelihood Restoration Program and Relocation

4.4.1 Compensation and other Resettlement Assistance

75. This section applies in cases of LAR activities only. All persons with assets in the COI before COD will be eligible for compensation for lost assets regardless of their legal status. Given that irrigation infrastructure rehabilitation is expected to be conducted in the Riparian Land, which is state-owned land, there would be no compensation for land but loss of income from loss of use of land, land improvements, businesses affected by land, employment, and other income sources; transportation allowances; subsistence allowances during the transition period; and income/livelihood restoration programs. For the vulnerable group, in addition to the above, a special assistance package is provided thereby cash grant for subsistence allowances and livelihood restoration program are doubled.

76. Fruit and vegetable crops, rice, other economic trees and standing crops will be compensated according to the principles of replacement cost in the RGC's SOP-LAR and the AIIB's ESS2. Where possible, AHs will be allowed to harvest crops before acquisition or temporary use of the land.

77. Cash compensation based on the principles of replacement cost will be paid to AHs who lose structures or parts of structures, such as kiosks, roofs, concrete pavements, fences, shops, house-cum-shops and houses. Transport allowances will be provided where relevant.

78. For AH losing income during the transition period, allowances will be provided. If applicable, livelihood restoration programs will be provided for AHs who permanently lose their source of livelihoods.

79. AHs whose land is used temporarily during construction will be compensated for loss of income from crops or other assets during the period of construction.

80. A tenant of the immovable property who is operating a business shall be entitled to compensation for the impact on their business operation and to additional assistance at fair and just compensation to the capital value actually invested for the business operation activities as of the

date of the issuance of the declaration on the expropriation project (Article 29 of the Expropriation Law, 2010).

81. Regarding the RGC's SOP-LAR, all AHs who lose their business from fixed structures whose businesses are relocated to a new site will be compensated with the projected loss of net income for 60 days. For those whose business is relocated on-site (move back or within the same area), compensation will be projected loss of net income for 30 days. The businesses may be registered or non-registered. The employees of those with loss of business will be provided with a transitional allowance as per the entitlement matrix.

82. The following types of displaced persons shall be eligible to compensation, but compensation would vary depending on their situation:

- Legal owners and holders of title or rights to land, including customary rights;
- Tenants and leaseholders, including employees, workers and hawkers;
- Those who have no formal title or rights to the land (illegal occupiers) who are engaged in farming or businesses, and
- Poor and vulnerable groups.

However, if the business is engaged in illegal activities like gambling, prostitution, drugs or similar nature, no compensation will be paid.

4.4.2 Vulnerable Groups

83. Poor and Vulnerable Persons/Groups, those who are perceived to be more vulnerable than others such as (i) households living below the poverty line, identified by the Ministry of Planning²⁴; (ii) elderly people headed households with no means of support; (iii) female headed households with dependents living below the poverty rate; (iv) disabled headed households, , (v) landless poor living below the national poverty rate; and (vi) indigenous peoples (who often have traditional land rights but no formal titles).

84. To improve living conditions of poor or vulnerable persons who are physically displaced, through provision of adequate housing, access to services and facilities, and security of tenure, the poor or vulnerable persons who are classified as poor and vulnerable under the above criteria (para. 83) and hold ID Poor Cards lose any **livelihood source permanently** will participate in any one of the three programs and the corresponding skills training program. In addition, these AHs will be entitled to the following: (a) Double the financial support rate offered in the three different livelihood programs. (b) Priority access to employment opportunities under the Project.

85. In cases where Land Acquisition is required from vulnerable groups, the needs of the vulnerable groups need to be assessed and included in DRPs. Special attention should be paid to gender aspects. In cases where vulnerable groups are Indigenous Peoples, DRPs should be done concurrently and in coordination with the Indigenous Peoples Plans, which will be prepared by MoWRAM.

4.4.3 Livelihood Restoration Program

- Eligibility for Participation

86. The purpose of the Livelihood Restoration Program (LRP) is to assist households who lose their livelihood source permanently due to physical relocation to restore their livelihoods and income to the pre-project level, or better. To this end, households who lose their livelihood source

²⁴ RGC, Sub-decree on Identification of Poor Households, No: 291 ANKr. BK (2011), Article 17: Relevant government ministries/institutions, non-governmental organizations and local communities which intend to provide services or assistance to poor households or individuals, including any appropriate emergency interventions, must primarily use valid national poor household data.

permanently are eligible to receive benefit from the CAISARP's LRP. This may be either in the form of cash grants for them to seek new or upgrade their skills or through a LRP (land based, employment base, or business based) depending on the choice of the DPs. Eligible members of affected households, determined through the DMS and detailed in DRP, will have access to skill training tailored to their preferences and economic opportunities in the area at designated vocational centers. This initiative, to be facilitated by the Provincial Department of Labor and Vocational Training, aiming to enhance employability and match participants with potential employment or livelihood opportunities, ensuring a holistic approach to livelihood restoration. Details of the LRP such as types of vocational/skill training, number of APs eligible for LRP, institutional arrangements, enrolment procedure, etc. as well as the budget will be described in the DRP. Those APs who are classified as poor and vulnerable as per the category stipulated in the definition of Vulnerable Groups and will substantiate with ID Poor Cards will also be provided additional assistance to improve their living status.

87. Under the CAISARP, it is anticipated that part of the affected population would be affected significantly. The LRP will be prepared in close consultation and active participation with the AHs and simultaneously implemented in parallel with the DRP to assist AHs in restoring their livelihoods and income levels.

88. Depending upon their existing livelihood, eligible AHs would be entitled to participate in one of the support options as outlined in SOP-LAR: (i) Land-based Livelihood Restoration; (ii) Employment-based Livelihood Restoration; and (iii) Business-based Livelihood Restoration.

Option 1 – Land-based Livelihood Restoration:

AHs who depend on and permanently lose land-based sources of livelihood such as agricultural and livestock will be provided with:

- Access to other land-based sources of income, like vegetable gardening, fruit trees and livestock, if alternate land is not available.
- Soft skill training will be provided such as introductory training on crops of higher value, or training that adds value to existing crops, and other related agricultural job skills that AHs may need. The content of training will be based on a training need assessment to be conducted for AHs.
- Financial support - as a lump sum grant of \$200, to assist AHs in re-establishing their livelihood.

If no alternative agricultural land is available, or if the AHs prefer to undertake an alternate type of livelihood, they will be offered the option to participate in either an employment-based or business-based livelihood restoration program.

Option 2 – Employment-based Livelihood Restoration

89. For AHs who rely primarily on employment for their livelihood and have permanently lost that employment as a result of LAR, or for AHs with land-based livelihood who opt for new livelihood, an employment-based livelihood restoration support will be offered to provide them with:

- Employment skills training, based on employment opportunities in the community. A survey of the employment opportunities in the proximity of the relocation sites would be carried out as part of the preparation of the DRP which would be analyzed to determine the types of jobs available, and the skills set requirements. The training program would be developed to help build these skills set for the AHs.
- Financial support as a form of cash grant equivalent to 3 months income based on the official poverty rate prescribed by the RGC to support to the affected family members of the AHs during the training period. The amount will be the monthly poverty rate x number of members in the AH x 3.

- The subproject may also provide temporary job opportunities at the construction site, at the office or other places. For jobs in offices or those requiring higher levels of skills, skill training will be provided to the APs to access those jobs.

Option 3 – Business-based Livelihood Restoration

90. For households (AHs) whose livelihoods are based on business activities and have suffered permanent loss of their businesses, or for those AHs who choose to participate in this program, a business-oriented livelihood program will be available. This program will include the following support:

- Business Skills Training: AHs will receive training in essential business skills, with a specific focus on small or home-based businesses. The training will be tailored to the business opportunities that may exist within their local community.
- Financial Assistance: Given that a limited number of AHs may require this training, a cash grant will be provided to enable them to pursue skills training of their choice.
- Financial support as a lump sum cash grant of \$200, to assist them and their families in re-establishing their micro or home-based businesses.

4.4.4 Contracts with AHs and Compensation Payments

91. The agreement on the compensation package is confirmed under a formal and binding contract between IRC-WG and each of the AH. In the case of negotiated settlement, a meeting is held at the commune or village office or community hall where the contracts are offered and explained to the AHs on an individual basis before negotiation and signing. Upon signing, compensation will be paid to AH as a lump sum. If errors are identified during the meeting, they will be corrected on the spot.

92. In the case of the DRP, a meeting will be held with the AHs and the contracts are offered and explained to the AHs on a one-to-one basis. The AH can sign the Contract at that time or within the next three (3) days. The compensation payments are not made at this stage and a separate meeting is scheduled for making the compensation payments at a later date. The AHs will be informed in advance of the date of the meeting for the compensation payments through the Commune and/or Village Offices.

93. Payment of compensation and rehabilitation assistance to the AHs is central to the implementation of SOP-LAR. The GDR must ensure transparency and integrity of the budget disbursement and compensation payments process which will be governed by the following principles:

- Full payment of the compensation shall be offered and made to all AHs prior to land acquisition;
- Payments for all allowances must be completed prior to relocation to the new sites or self-relocation. In case of AHs who dispute or refuse to accept the offer or payment, the payment will deem to have been made at the same time as payments are made to the other AHs;
- Payments will be made in the joint names of both spouses or the single head of the AH, where applicable or a designated adult member of the AH in case where both spouses are unable to receive the payments;
- Payments should preferably be made by cheque. However, where access to banking facilities is not available or difficult, cash payments can be made with the necessary safeguard protection for the AHs to verify that payments have been actually received by the AHs;
- All payments should be made in a public place as far as possible and witnessed by a representative of the local authorities; and
- On completion of the payments, a proper and due notice shall be issued to AHs to vacate the land/occupation within one month from date of issuance of the notice.

4.4.5 Relocation

94. Relocation of displaced persons to a new site resulting from involuntary resettlement is not envisaged under the CAISARP. However, in the event of relocation of persons displaced by the CAISARP to another new site, all physical relocation will be verified during the DMS and included in the DRP. For the physically relocated AHs, the DRP will include option for self-relocation. Under this option, the displaced persons will be provided cash assistance towards purchase of an affordable land, including site development and transitional allowances, to their preferred choice of self-relocation. The displaced persons can do this for economic reasons, including employment opportunities and availability of employment, or due to social consideration such as proximity of kin. The RCS will determine the costs for self-relocation which will be included in the budget estimates in the DRP.

95. The physically relocated AHs are also entitled to transportation allowance to cover both relocation of AHs from their place of residence, material transport for relocating businesses and temporary relocation or rental allowance. The physical relocation will not commence until full compensation has been paid to the AHs. Monitoring will follow up that the physically relocated AHs have a permanent residence after relocation. Subprojects having a large number of AHs for relocation to another site will not be financed under the CAISARP.

5. INSTITUTIONAL AND IMPLEMENTATION ARRANGEMENTS

5.1 Ministry of Water Resource and Meteorology

96. The Ministry of Water Resources and Meteorology (MoWRAM) is a lead project implementation agency, responsible for public irrigation infrastructure, through its Project Management Project (PMU) and Project Implement Unit (PIU) of PDWRAM. If there is any involuntary resettlement impacts and LAR activities the MoWRAM will request GDR to address them in accordance with the policies and procedures in this LARPF.

5.2 Inter-Ministerial Resettlement Committee

97. The Inter-Ministerial Resettlement Committee (IRC) is the decision making and oversight body for LAR activities. The IRC has the mandate to review and evaluate resettlement impacts and land acquisition for public physical infrastructure projects in the Kingdom of Cambodia. The IRC is a collective entity, permanently chaired and led by the Ministry of Economy and Finance (MEF), with members of other line Ministries. The IRC carries out its responsibilities through a Working Group (IRC-WG) which is established by the MEF for each public investment project. The powers of the IRC are delegated to its permanent Chairman. The key responsibilities of IRC include:

- Provide effective oversight and ensure LAR complies with the laws and implementing rules and regulations.
- Ensure effective coordination between line ministries, provincial/local authorities and GDR in carrying out LAR.
- Provide overall guidance on implementing rules and regulations for LAR and propose updates; as necessary;
- Initiate the establishment of PGRC; and
- Approve of LARPF, RPFs, RFs, BRPs, ARPs, DRPs and any updated ARPs/DRPs.

5.3 General Department of Resettlement

98. The General Department of Resettlement (GDR) is the permanent Secretariat of the IRC and is the lead agency for LAR activities for public investment projects. It is directly responsible for the preparation, implementation, and monitoring and reporting of DRPs in accordance with the laws and implementing rules and regulations related to LAR and the mandatory requirements of the safeguard

policies of the development partners. The GDR carries out these activities through its Resettlement Departments (RD). For this project, the Resettlement Department 2 (RD2) of GDR will be the first point of contact and interface with MoWRAM for the entire project and resettlement cycle. Key responsibilities of GDR include:

- Coordinate and collaborate with line ministries and other agencies involved in LAR activities;
- Conduct public consultations and focus group discussions with the affected peoples and vulnerable groups (if any);
- Prepare the ARP/DRP for the subprojects and submit to the AIIB for review and concurrence;
- Develop terms of reference and recruit the replacement cost appraiser;
- Prepare and secure the necessary budget for the implementation of the ARP/DRP;
- Calculate, prepare contracts, and make payments for compensation for each AH based on the entitlement matrix in the ARP/DRP;
- Implement all LAR activities in compliance with the ARP/DRP;
- Ensure proper functioning of the GRM, including training/refresher training for GRC members, adequate record keeping, etc.;
- Supervise, monitor, and report on implementation progress of the ARP/DRP;
- Prepare and submit to MoWRAM and copy to the AIIB a handover letter for AIIB's no objection to commencement of civil works;
- Prepare and submit to AIIB semi-annual monitoring reports;
- Prepare, agree with AIIB and implement corrective action plan, if any, during implementation; and submit the corrective action plan implementation report to AIIB for concurrence and disclosure;
- Conduct awareness workshops for MoWRAM, line ministries, local authorities, and construction contractor on the implementing rules and regulations as specified in the ARP/DRP;
- Acquire the land and provide land handover letter to MoWRAM with a copy to AIIB; and
- Serve as the focal knowledge center for resettlement of the project.

99. The Department of Internal Monitoring and Data Management (DIMDM) of GDR is responsible for carrying out the internal monitoring of the implementation of the ARP/DRP. Its role extends to internal verification of all LAR activities for compliance with the provisions under the agreed ARP/DRP and reports directly to the Director General of GDR. In addition, it records and reviews all complaints and grievances submitted by affected people; investigates them and makes recommendations on compliance to the Director General of GDR.

5.4 Inter-Ministerial Resettlement Committee Working Group

100. The Inter-Ministerial Resettlement Committee Working Group (IRC-WG) is established by the GDR and will carry out the day-to-day land acquisition activities under the project/subproject, led by the Deputy Director/Chief of the Resettlement Department 2 (RD2) of GDR. The IRC-WG comprises technical staff of MoWARM, staff of GDR and staff of the Ministry of Land Management, Urban Planning and Construction. The IRC-WG will be responsible for all the fieldwork under the supervision of the Director of the RD2 and overall guidance and direction of the Director General of the GDR.

5.5 Provincial Resettlement Sub-Committee

101. The Provincial Resettlement Sub-Committee (PRSC) is established by the Provincial Governor at the request of the IRC for each project/subproject and comprises (i) the Provincial Governor or the Deputy Provincial Governor as the Head, (ii) Provincial Department Directors of the Line Ministries represented in the IRC, and (iii) the respective chiefs of the Districts and Communes of the locations affected by the project/subproject as Members.

The role of the PRSC is as follows:

- Provide the coordination and supporting role to the GDR, IRC and IRC-WG for land acquisition activities at the local level;
- Ensure all relevant provincial and local government authorities provide the necessary support for land acquisition;
- Manage the public consultation meetings at Provincial Level;
- Oversee and monitor the work of the PRSC-Work Group;
- Responsible and accountable for the disbursements of the compensation payments at the provincial level; and
- Assist the IRC-WG in developing measures to assist vulnerable households by the project.

5.6 Provincial Resettlement Sub-Committee Working Group

102. The Provincial Resettlement Sub-Committee Working Group (PRSC-WG) is established by the Provincial Governor and is mainly responsible for technical functions of the PRSC and works with the IRC-WG in carrying out the LAR activities at the provincial level. In addition to supporting the PRSC, the PRSC-WG has the following specific functions:

- Facilitate all public consultation and information disclosure meetings and maintain records;
- Cooperate with IRC-WG in carrying out DMS and IOLs and in the implementation of the approved DRP;
- Lead the payments of compensation; and
- Prepare monthly progress reports on all land acquisition activities at the provincial level and submit them to PRSC and GDR.

5.7 Cadastral Administration Office

103. The Cadastral Administration Offices under the Ministry of Land Management, Urban Planning and Construction is responsible for issuing titling documents, including the certificate of land use rights, hard titles, and social land concession as part of securing tenure for landless and issuing title documents for the land plots acquired in favor of MoWRAM.

5.8 The concerned local administrative authorities (district, commune and village)

104. The districts, communes, and villages where the Subproject is located will coordinate and work closely with the PRSC-WG and IRC-WG on the DRP preparation and implementation. Their roles and responsibilities include:

- (i) Identify and coordinate the venue for the public consultation meetings and invite AHs to participate in the consultation activities, such as DMS, SES, RCS and other resettlement related activities;
- (ii) Assist in the resolving of grievances/complaints lodged by the AHs; and
- (iii) Assist the IRC-WG, PRSC-WG, and GDR in developing suitable measures to assist the vulnerable AHs by the Subproject.

6. GRIEVANCE REDRESS MECHANISM

6.1 Overview of Grievance Redress Mechanism

105. The Grievance Redress Mechanism (GRM) seeks to resolve concerns promptly, using an understandable process that is culturally appropriate and readily accessible at no cost. Grievances can be submitted if an AH or any person believes the Project/Subproject is having a direct detrimental impact on them as a result of land acquisition impacts.

106. In provinces where the CAISARP requires acquisition of land or loss of other livelihood assets, a GRM will be set up or activated to handle complaints and concerns of local people on all land acquisition and involuntary resettlement aspects of the project/subproject. The MEF will facilitate the establishment of the Provincial Grievance Redress Committee (PGRC) for addressing grievances of the project/subproject. The PGRC will be established by the Provincial Governors in consultation with the IRC. The Expropriation Law of the RGC provides for a GRC to handle complaints with the additional provision for the AHs to seek judicial redress in case they dispute the decision of the grievance redress committee.

6.1.1 Provincial Grievance Redress Committee

107. The PGRC will consist of representatives from relevant provincial authorities and the MEF as follows:

- Chair: Provincial Governor, or person appointed by the Provincial Governor
- Vice Chair: Director of Provincial Department of Land Management, Urban Planning and Construction or representative
- Member: Director of Provincial Department of Economy and Finance or representative
- Member: Director of Provincial Department of Water Resource and Meteorology or representative
- Member: Chief of Provincial Office of Law and Public Security or representative
- Member: District Governor or representative
- Member: One Representative of a Local-Based Civil Society Organization.

108. The GRC functions at three levels or tiers to handle LAR grievances:

1. The first level will be at the district level by the concerned District Head;
2. The second level will be at the GDR level by the Director General of GDR; and
3. The third level will be at PGRC level by PGRC before going to the judicial system.

6.2 Grievance Redress Procedure

6.2.1 Types of Complaints

109. Complaints can be categorized as either an individual or an anonymous or a group or complaints:

1. **Individual Complaint:** Lodged by a single affected person (AP) facing a grievance. The complainant has access to all three steps in the process.

2. Anonymous Complaint: Complaint lodged in written or oral, received by the GDR, in which the identity of the complainant is not revealed.
3. **Group Complaint:** Filed by a group of APs with the same grievance(s) based on the same facts. If the group consists of fewer than five APs, they can follow the same procedures as individual complaints. However, if the complaint contains different grievances that don't apply to all group members, separate complaints are requested. Group complaints skip Step 1 and proceed directly to Steps 2, 3, and 4, similar to individual complaints.

110. GRM requires that complaints (or comments/suggestions) should be made in writing. As such, the head of aggrieved affected households must lodge a complaint in writing to the Head of the District Office. In case the aggrieved person has difficulties writing, the Administration Officer at the District Office will assist the aggrieved person to fill in the Individual Complaint Form based on the verbal complaint of aggrieved person. While anonymous complaints are accepted, potential APs will be advised that anonymous complaints related to specific entitlements, for example, may take longer time to resolve, if necessary, details are not provided in anonymous grievance letter to allow appropriate investigation and resolution. As such, response to anonymous grievance cannot be provided. However, where sufficient information is provided (in anonymous grievance letter), anonymous complaints will be resolved. Anonymous complaints will be addressed directly by the GDR, and if the grievance cannot be resolved, it will be forwarded to the PGRC (the third step of the GRM) for resolution. The grievance will be handled thorough a 3-step formal approach as outlined in the SOP-LAR and detailed below.

111. However, prior to the First Step, the AH may informally seek the assistance of the commune chief or a community elder to discuss and find an amicable solution to his/her complaint or grievance with the leader of the PRSC-WG. This is done verbally and informally and moreover; its aim is to resolve the matter to avoid lodging formal written complaints. If this verbal process of problem solving does not resolve the complaint to the satisfaction of the AH, s/he can seek the formal route for lodging the grievance. Formal lodging can be done verbally (to community elder or representative who will record the complaint) or in writing. The GRM process is detailed below:

- **Step 1 – District level.** AH can lodge a written complaint to the Head of the District Office (where the subproject is located). The AH can bring a community elderly or their representative to discuss their grievance at the District Office. A conciliation meeting shall be held, and a decision be made within **15 working days** from the date of complaint is received by the District Office. If the complaint is resolved to the satisfaction of the AH, the IRC-WG will inform GDR's Department of Internal Monitoring and Data Management (DIMDM) who will review and seek the approval of the Director General of GDR for appropriate remedial action. GDR will inform the AP of the decision/ remedial action within **15 working days** from the receipt of the grievance by the District Office. If the complaint is rejected at this step, District Office will inform the AH of the rejection in writing. If the complainant is not satisfied with the decision/resolution result, s/he can proceed to step 2 (below).
- **Step 2 – GDR level.** The complainant who is not satisfied with proposed resolution from Step 1 shall lodge a written complaint to the GDR for resolution. GDR, through its DIMDM, will carry out a holistic review of the complaint and submit a report on its findings with the relevant recommendations, if any, to the Director General of GDR for review and decision. GDR may conduct a field visit to meet the complaint and the IRC-WG to gather relevant information. The final report must be completed within **30 working days** from the date of receipt of the complaint by GDR for submission to the Director General of GDR who will make a final decision within **5 working days** of receipt of the final report. In the event that the subject matter requires a policy level intervention, it will be referred to the IRC for a decision which may require that an additional **10 working days** be extended from the original deadline for final decision.
- **Step 3 – Provincial level.** AH will submit a written complaint to the PGRC through the Provincial Governor's Office. The complainant or a representative will be given an opportunity to present its case during a meeting and the PGRC may consider any compelling and special circumstances of the AH to inform their decision. The GDR will send a representative, as a non-voting member, to provide an explanation to the rejection of the complaint at Step 3 with the GDR. The decision

of the PGRC must be made on a consensus basis and will be final and binding except when the matter relates to government's policy. Decisions related to government's policy matters on land acquisition and resettlement are decided by the IRC. The PGRC will have **40 working days** from the date of receipt of the complaint to reach a final decision. The decision of the PGRC will be sent to the IRC (through the GDR) for endorsement before any remedial action is taken.

Top of Form

112. The handling of the complaint at the administrative stage ends at the Third Step. There are no fees or charges levied on the AH for their lodgment of complaint and for complaint resolution for the above 3 steps. However, as provided for in the Expropriation Law, the aggrieved AH at any step can file a suit at the Provincial/Municipal Courts, as applicable, to seek a resolution. At this stage, there is no involvement of the GDR, PRSC or IRC-WG unless there is a judicial order from the competent court.

113. However, if the aggrieved person prefers filing a lawsuit at the Provincial/Municipal Courts, as applicable, to seek a resolution, AH can do so but will bear cost related to the lawsuit as per the Expropriation Law. When the case is brought to a Court of Law, there is no involvement of the GDR, PRSC or IRC-WG unless there is a judicial order from the competent courts.

114. **Project Affected People's Mechanism (PPM).** People who believe they have been or are likely to be adversely affected by a failure of the Bank (Asia Infrastructure Investment Bank) to implement the Bank's Environment and Social Policy may submit complaints to the Bank's PPM in accordance with the Policy on the PPM, when their Project-related concerns cannot be addressed satisfactorily through the above Project-level GRMs or the Bank's management processes.

115. Information on the availability of the PPM will be provided in the Khmer language and in English and disclosed in the PIB and the Project's Website.

116. The GRM details and guidelines on LAR will be circulated and explained in detail to the AHs during consultations during the ARP/DRP preparation and implementation. These guidelines outline each of the above Steps and include the administrative procedures for receiving and addressing complaints during the consultative meetings. The GRM procedures, focal person and their contact details will be included the updated PIB and will be distributed and explained in detail to all AHs during the preparation and implementation of the DRP.

6.3 Recording and Documentation of Grievances

117. The RGC's SOP-LAR details the GRM process, registers, records, and documentation. The forms for individual complaint form, register of complaint and Letter from Head of District-Khan to be used for grievance documentation will be included in the updated PIB and distributed and explained to the AHs.

7. FUNDING AND IMPLEMENTATION ARRANGEMENTS

7.1 Budget and Financing

118. The budget for land acquisition and resettlement is prepared after the DMS and RCS are completed and is included in the DRP. In the case of negotiated settlement, it is included in a separate report on negotiated settlement. The budget is financed by the counterpart funds allocated from the national budget by the RGC and no CAISARP loan funds from AIIB and IFAD will be required. The budget will include the estimate costs of all the affected/items such as land, buildings, structures, crops and trees, relocation, vulnerable, transitional and transport allowances, income and livelihood support etc. for compensation payments that are due to any AHs that will be in the

DRP. The field surveys, consultation meetings, GRM, etc. will be financed from GDR's and Provincial Administration's budget.

119. The GDR will be responsible and accountable for all financial management functions relating to the use of the budgeted funds. The funds for land acquisition are provided to the GDR from the Counterpart Funds Account. Once the budget is approved by the MEF, the funds are released by the General Department of Treasury and deposited into a project designated account established by the GDR for the Project/Subproject in the National Bank of Cambodia. Following an internal process, the funds are released from the project/subproject designated account, as and when necessary, and provided to the PRSC which is responsible for making payments to the AHs.

7.2 Implementation Plan

120. The Project is expected to be implemented from 2024 to 2031. Land acquisition for six schemes is expected to take place from 2024-2026.

7.2.1 Voluntary Donations

121. It is expected that priority irrigation infrastructure will be identified in Year 1 and screened for involuntary resettlement impacts as detailed in this LARPF. In cases of VDs, the implementation process will consist of iterative consultation to ensure affected people are adequately informed of options available for their choices and of the donation process, COI, COD, and time when the civil works is scheduled to start. The donation of assets will be fully and carefully documented by MoWRAM, as described in this LARPF.

122. The MOWRAM-PMU's ESOs will work closely with the DED team to identify any potential land acquisition and will lead the consultation process on VDs, including COD, as detailed in this LARPF. The process for documenting VDs shall be completed before the civil works contractor commences works on that construction work site/section. During civil works, the contractor will work with Commune and PDWRAM-PIU to remove donated assets at contractors' costs. The removed assets will be provided to donating households if they wish. The contractors will restore the affected area and the area next to the affected area to a good condition, if needed, to the satisfaction of the donating person. For instance, if part of a concrete driveway is donated, the contractor will assist to ensure the rest of the driveway is in good condition.

7.2.2 Land Acquisition

123. In the case of Land Acquisition, the procurement of civil works will commence after the DEDs have been finalized, the demarcation of land is completed jointly by MoWRAM and GDR, and the COD has been announced and relevant project/subproject information is disseminated as described in this LARPF. It is expected that the census survey, IOL and DMS will commence after the DEDs for a construction component is submitted to GDR. The preparation of the DRP/ARP and its approval by the IRC and the AIIB is expected within 90 days thereafter if the number of AHs is minimal (less than 100). After the approval of the budget and release of funds, the payment of the compensation will take about 30 days to 45 days depending on the number of AHs.

124. Civil works can commence only in sections where the payment of compensation and other entitlements have been paid in full to the AHs in that section and a comprehensive income restoration program, where applicable, is in place and supported by an adequate budget. In case AH refuses the compensation payment, or where complaints have been lodged for resolution under the GRM, these cannot prevent the commencement of civil works and funds should be put in a separate special account on hold for the AH. In the event if any assets outside the COI are damaged during construction by the civil works contractor, the contractor will be required to restore/repair them to the original or better standard.

8. INFORMATION DISCLOSURE AND STAKEHOLDER

CONSULTATION

8.1 Information Disclosure

125. For public consultation, the draft LARPF (in English) and its Executive Summary (in Khmer) was disclosed on MoWRAM's website on <http://www.mowram.gov.kh/>. The Executive Summary (in Khmer) was also disclosed in hard copy at MoWRAM's public library in Phnom Penh, and in the offices of PDWRAM in the commune offices of the all-subproject provinces. Once the LARPF is finalized and approved, it will be again disclosed through the above channels. The final approved LARPF will be disclosed in English on the AIIB's website.

126. Once the subprojects are identified and selected, the proposed subproject information will be explained in detail to the subproject stakeholders in Khmer language with translation into the language spoken by IPs for those locations where IPs are identified in the subproject areas, and the PIB will be distributed to them. The proposed project/subproject information in the PIB covers the following:

- (i) The purpose, nature, and the scale of the proposed project/subproject.
- (ii) The location of the proposed project/subproject, project/subproject components and activities.
- (iii) The duration of proposed project/subproject activities.
- (iv) The COIs, timing of census, IOL, DMS/SES, eligibility criteria, compensation policy, RCS, the timing of the establishment of the GRM, and contact details for the GRM focal persons.
- (v) The options for voluntary land contribution and relevant procedures.
- (vi) Potential risks and impacts of the proposed project/subproject on local communities, and proposed mitigation measures, highlighting potential risks and impacts that might disproportionately affect vulnerable and disadvantaged groups and describes the differentiated measures taken to avoid or minimize them; and
- (vii) Names and contact details of key persons on LAR technical matters on the project/subproject.

8.2.1 Voluntary Donation

127. In addition to the PIB explained and distributed to the stakeholders, in cases of VDs, affected people with assets in the riparian corridor will be informed about the subproject and their options for them to receive compensation or to voluntarily donate their affected assets. The GRM will be explained in detail and donors will be appropriately informed and consulted about the sub-project and choices available to them. The contact information of MoWRAM's SEOs will also be disclosed during the consultation process. As described, when people choose to voluntarily donate, the process of land VD will be adequately recorded and documented in English and Khmer. In the case IPs are identified to be present in the subproject area by MoWRAM, documentation will be translated into the language used by IPs. Documentation will be publicly disclosed at the local level (such as commune/Sangkat halls) and at national level (MoWRAM's website). Personal details and sensitive information of donating people will be removed to protect their privacy.

8.2.2 Land Acquisition

128. In cases of Land Acquisition, the relevant information will be disclosed timely in Khmer language and translated in the language used by IPs in the case IPs are identified to be in the sub-project area, and in places easily accessible to AHs and the communities. Information disclosed to AHs relevant to land acquisition will be done through PIB at the first consultation stage during Basic Resettlement Plan (BRP) preparation, and through updated PIBs at a second consultation stage prior to DMS and at third consultation stage upon contract offer. The BRPs and ARPs/DRPs, without sensitive personal information, will also be disclosed at MoWRAM's and the AIIB's website.

8.2 Stakeholder Consultation

8.1.1 Consultation and Stakeholder Engagement for Voluntary Donation

129. Once project implementation begins, in cases of VDs, potentially AHs will be invited to consultation sessions to understand the project compensation processes as well as the availability

of the VD option that affected people may consider. Special attention will be given to disadvantaged/vulnerable individuals/groups, Indigenous Peoples, if any, and women. Local authorities will also be invited to participate in these consultations.

130. As outlined in this LARPF, consultations will begin as early as subproject's design and location are identified and will be facilitated by the SEO at MoWRAM. The consultation will be an iterative process in which all AHs will be informed of their right to compensation and the option for a VD of assets, including VD procedures, and the subproject's benefits.

8.1.2 Consultation and Stakeholder Engagement for Land Acquisition and Involuntary Resettlement

131. In cases of Land Acquisition, key stakeholders participating in the consultation process will include:

- AHs, with special attention to women, Indigenous Peoples include their representative (if any), and disadvantaged/vulnerable people;
- MoWRAM and PDWRAM-PIU; its Provincial Departments;
- Provincial Department of Land Management, Urban Planning and Construction;
- Provincial Department of Agriculture, Forestry and Fisheries;
- Provincial River Basin Management Committee;
- IRC and GDR, including IRC-WG and PRSC-WG;
- Provincial and Local authorities (District/Khan, Commune Councils and Village Offices), including representatives of women's groups; and
- Civil Society Organizations, if relevant.

132. Consultations on land acquisition and involuntary resettlement will be an iterative process and will consist of various rounds taking place in various subproject locations, as described in the SOP-LAR. Consultations will start when subproject's construction work sites are identified. In addition to information disclosed as in in this Section above, concerns, questions and comments raised by AHs will be recorded and considered for incorporation into subproject planning, design and implementation.

133. The first consultation will aim to introduce the project/subproject, its goal, benefits, risks and impacts, including land acquisition and VD procedures. The option of a negotiated settlement will be explained in detail. The consultation will target both potential affected people and interested parties. The PIB prepared by MoWRAM and endorsed by GDR will be shared and made available at the commune/village council offices located in the subproject area. The GRM procedures and processes will be introduced to AHs and their views sought. If the subproject spans across a few provinces or multiple communes, then multiple consultative meetings will be held to cover all the affected communes. The major concerns and suggestions raised by the AHs will be recorded in the Minutes of the Meeting in summary form. If AHs agree on a negotiated settlement, this will also be recorded in the Minutes.

134. The second round of consultations will be at DMS stage and will focus on DMS process, the DMS Questionnaire and the IOL which will be explained to the AHs. This consultation will be undertaken jointly by IRC-WG and PRSC-WG assisted by local authorities. The updated PIB by GDR reflecting the entitlements for AHs, including GRM procedures and GRM focal persons and their contact details at commune, district, GDR and provincial levels will be shared and explained in detail. The consultation will be conducted with participation of AHs and relevant authorities before DMS starts. Thereafter the DMS team will meet AHs on one-on-one basis and explain the purpose

of the DMS process before proceeding to filling out the DMS Questionnaire and carrying out the measurements of the affected assets. The measurements will be taken in the presence of the AH and the AH will confirm the loss of the affected assets and measurements. This is to ensure AHs fully understand the basis on which the compensation will be paid for their lost assets, and other relevant entitlements. The DMS Questionnaire, which also includes the SES Questionnaire will also be shared and discussed so that the AHs know what information and data will be gathered during house-to-house DMS. The AH will sign the completed DMS Questionnaire and the IOL and witnessed by a community elder or official or commune chief. This process is also followed for a negotiated settlement.

135. The third public consultative meeting will be held prior to the signing of the agreement/contract for the compensation package and will be undertaken jointly by the IRC-WG and PRSC-WG. At this stage, the DMS and the RCS are completed, the compensation package for each AH is known and draft contracts will be prepared. The consultative meeting explains the compensation package, compensation schedule, procedures, entitlements and GRM, among others. The AHs will be provided with the option to sign the contract during this consultation stage or given 3 working days to submit the signed contract to the IRC-WG through the commune council office. For AHs who are unable to participate in the meeting, best efforts will be made to visit them at their home or seek the assistance of the village office to contact them. During the DMS the IRC-WG and PRSC-WG will obtain the mobile phone contact details from all AHs, and they will be outreached through mobile phones, when required.

136. Additional formal consultative meetings will be conducted when the compensation payment is ready to be disbursed. Details on consultation entitlements, schedule and process will be provided as well as the GRM. This consultation will be undertaken jointly by the IRC-WG and PRSC-WG. The schedule for compensation payments will be informed to AHs at least one week in advance through the commune and village offices.

137. The disclosure of relevant project/subproject information helps the AHs and other stakeholders to understand the risks, impacts and opportunities of the project/subproject. Meanwhile meaningful dialogue in consultations can avoid the potential for conflicts, address the concerns of APs to the extent possible, avoid bottlenecks to minimize project/subproject delays and contribute towards mitigating adverse impacts.

138. The consultation and disclosure activities associated with IFAD and AIIB-funded projects in Cambodia adhere to the principles of meaningful consultation, transparency, and alignment with local procedures, including the Royal Government of Cambodia's SOP-LAR, as well as any applicable Social and Environmental Plans or requirements. This ensures that projects funded in Cambodia prioritize community engagement and adhere to established standards for environmental and social risk management. The consultation and disclosure activities that are specified in the RGC's SOP-LAR and are consistent with that of AIIB's ESF (stakeholder engagement, para. 18) including requirements for meaningful consultation that begins early and is ongoing throughout the project/subproject.

9. MONITORING AND REPORTING

139. While the MoWRAM will be responsible for monitoring the overall implementation of the CAISARP, its process and outcomes of activities set forth in this LARPF, the DIMDM of GDR will be directly responsible for the monitoring and reporting of the implementation of the DRP. MoWRAM will engage the Detailed Design Implementation and Supervision consultants under CAISARP to assist MoWRAM in the management, implementation and monitoring of CAISARP. The DIMDM of

GDR remains responsible for the monitoring and reporting of the implementation of the land acquisition activities under the ARPs/DRPs.

9.1 Internal Monitoring

140. The role of internal monitoring of the LAR activities are to ensure that resettlement activities are implemented in accordance with the implementation schedule outlined in the subprojects' ARP/DRP. In this way, the protection of AHS' interests and the schedule for civil works can be assured. Primary responsibility for internal monitoring lies with MoWRAM as the project implementing agency and will be coordinated by its PMU. PMU will be responsible for overseeing the formation, function, and activities of each of the implementing agencies, and through quarterly monitoring reports, summarizing this progress. All monitoring data will be collected to ensure gender and ethnicity disaggregation.

9.1.1 Voluntary Donations

141. MoWRAM-PMU will be responsible for keeping adequate records of VD process and outcomes in accordance with the provisions outlined in this LARPF. As part of internal monitoring, the Project Manager (PM) will be responsible for reviewing the reports submitted by the SEO on VDs and grievances, if any. The files of record should be kept in the PMU office for at least five years after the project/subproject is completed.

142. It is expected that SEO will conduct due diligence on the voluntary land donations. The due diligence report provided by MoWRAM will cover the followings:

- Validation that donating assets is within the COI and the donors (individuals/households) are direct project beneficiaries;
- Validation and documentation that assets required for the subproject (within COI) were donated voluntarily and are free from any dispute on ownership or any other encumbrances;
- Validation that donated asset is minor and have not reduced the donor's remaining area below that required to maintain the donor's livelihood at current levels;
- Validation that no physical relocation or displacement of person is involved;
- Validation that meaningful consultation has been conducted in good faith with all potential donors, including that donors were aware that they were entitled to compensation. Separate discussions to be held with women as required to facilitate meaningful participation;
- Validation that a GRM is in place and a review and documentation of grievances, if relevant;
- In cases of community donation, that there is a consent of individuals using/occupying the land; and
- PMU will report will prepare a special report detailing the VDs when these are completed for subprojects for each contract package and submit to AIIB with all the relevant supporting documents. In addition, it will report on all aspects of VDs in the quarterly progress reports and submit them to AIIB.

9.1.2 Land Acquisition and Involuntary Resettlement

143. In case of Land Acquisition and Involuntary resettlement, the objective of internal monitoring is to (i) measure and report to keep MoWRAM informed on the progress in the preparation and implementation of the ARP/DRP; (ii) identify problems and risks, if any, and measures to mitigate them; and (iii) assess if the compensation and rehabilitation assistance are in accordance with the provisions under the ARP/DRP.

1. The GDR's DIMDM will be responsible for carrying out the internal monitoring which will review quarterly DRP progress reports provided by the RD2 including fielding its own missions to the fields to verify the progress made and the validity of the data and information, where necessary. The DIMDM will validate that the (i) entitlements and the corresponding compensation are paid to AHs in accordance with the EM in the DRP; and (ii) GRM is functioning as per the guidelines. The GDR's DIMDM will prepare and submit a semi-annual monitoring report on the implementation of the DRP. A single monitoring report will be prepared covering all subprojects under DRP per province. An indicative list of internal monitoring indicators is provided in **Annex 4**.

2. The internal monitoring reports will include the followings:
- (i) Set up of Institutional Arrangements;
 - (ii) Compensation Payments for Entitlements;
 - (iii) Relocation, if any;
 - (iv) Livelihood Restoration Program, where applicable;
 - (v) GRM;
 - (vi) Public Consultations;
 - (vii) Budget Expenditures;
 - (viii) Overall RP Implementation Progress against agreed Implementation Schedule in the DRP;
 - (ix) Problems and issues; and
 - (x) Proposed remedial actions.

144. In case of a negotiated settlement, when this is completed for the subprojects under each contract package, the GDR will submit a report detailing the negotiated settlement process together with the relevant supporting documents to the AIIB.

9.2 External Monitoring

145. In addition to internal monitoring, GDR will engage an Independent Monitoring Consultant (IMC) to conduct periodically independent monitoring on implementation of DRP where there is significant impact. The purpose of IMC is to monitor the implementation of the approved DRP to ensure the implementation complies with regulations and policies stipulated in the DRP. The IMC will prepare a completion report within 6 months of the completion of the resettlement activities under the DRP. The final report should include all findings from monitoring and evaluation and corrective action plan (if needed) and will be submitted to GDR. GDR will submit the final completion report to AIIB.

ANNEXES

Annex 1 – Screening Form for Land Acquisition and Resettlement

Initial Screening on Land Acquisition

Initial Screening is to be done during the feasibility study and confirmed during DED.

Province:		District:	Commune:	
Name of Sub project:		Name of contractor:	Name/number of irrigation infrastructure:	
Section	Village	Describe what is within COI (i.e. possible asset impacted such as trees, parts of structure, concrete driveway, livelihoods etc.)	Number of AHs impacted	Would

n o f C o n s t r u c t i o n W o r k (m / K m s)	e s / C o m m u n e s / D i s t r i c t s l o c a t e d / c r o s s e d	Wester n Side (W)	Eastern Side (E)	Norther n Side (N)	Souther n Side (S)		o l u n t a r y d o n a t i o n s b e a p p r o p r i a t e ? (s m a l l i m p a c t s , n o m a j o r i m p a c
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Annex 2 – Voluntary Asset/Land Donation Form

Province:	District:	Commune:	Villages:
Subproject ID:	Name of contractor:		
Names of Persons Donating:	Name of Husband:		ID Number:
	Name of Wife:		ID Number:
Address:			
Beneficiary of the project: Y/N			
Living/Operating/with land, structure or tree/crop on COI: Y/N			
How does the persons donating directly benefit from the project? Please detail:			
Is the asset being donated used by anyone other than the owners? Please detail:			

Description of land that will be taken for the subproject:	Area affected:	Total landholding area:	Ratio of land affected to total land held (%):	Map code, if available:
Description of annual crops growing on the land now and subproject impact:				
	Details (number, etc.)		What the donating person is left with?	
Trees/crops that will be donated				
Fruit trees/crops				
Mature non-fruit trees				
Trees/crops used for other economic or household purposes				
Describe any other assets that will be lost or must be moved to implement the subproject:				
Assets that will be donated (including parts of structures, wells, fences, etc.)				
Total value of donated assets:	Land*	Structures	Trees/crops	
Other:				
If the asset being donated is used by someone other than the owner, a description of the remaining assets of that person, and/or description of why their livelihoods are not made worse by the donation.				

* VLD will be accepted when the land area does not exceed 5% of the total land area

By signing or providing thumbprint on this form the owner and/or user agrees to contribute assets for CAISAR's subprojects. The contribution is voluntary, and the person affected understands they could refuse or have the option to seek compensation, but they choose to donate. If the owner or user does not want to contribute his/her assets to the subproject, s/he should refuse to sign or provide thumbprint and ask for compensation instead.

Date:

District MoWRAM representative's signature
signature

Date:

Donating person's

(both husband and wife if applicable)

Witnessed by village/commune authority:

Annex 3 – Entitlement Matrix

Category	Type of Loss	Application	Category of AH	Entitlements	Clarification
1. LOSS OF LAND					
1a	Land	Agricultural, residential and commercial land	Legal owners, including those covered by customary rights	<ul style="list-style-type: none"> - Cash compensation for land at full replacement cost or land swap of equal productive value. - Provision of all and full stamp duties, land registration fees and other similar taxes, if applicable by the time of compensation, for acquiring legal rights in case of replacement land (land for land swap). - Includes option of compensation at same replacement cost for affected land that remains after acquisition if remaining land becomes unviable or unusable. - For customary ownership, replacement land to sustain livelihood and way of life. Land registration, stamp duty and other fees to register land ownership or right to use will be reimbursed at cost 	<ul style="list-style-type: none"> - If land for land is offered, title will go to both husband and wife. - Applies only to partial loss of land.
1b	Land		Tenants and Leaseholders	<ul style="list-style-type: none"> - No compensation for loss of land as not legal owners of land (compensation made to landowner) 	
1c	Land		Illegal occupiers/squatters without legal titles or rights to land	<ul style="list-style-type: none"> - No compensation made for land loss as not legal owners of land. 	
2. LOSS OF USE OF LAND					
2a	Crops, Perennial trees, fruit trees, timber	Agricultural land	All AHs who are engaged in farming, irrespective of titled and non-titled	<ul style="list-style-type: none"> - For rice/crop farming: Net annual income X 1year. In addition, AHs can harvest and retain income from standing crops. - For fruit trees, replacement cost of loss based on following formula: [Quantity Harvested per Year) X (Market Price) X (Number of years it will bear fruit)] + Cost of Seedling. 	<ul style="list-style-type: none"> - RCS will determine the amounts. - Market Price is based on Farm-Gate Price
				<ul style="list-style-type: none"> - Perennial trees that have a growth period of more than 5 years are classified as follows: + Sapling trees under 1 year: not compensated as it can be replanted. Cost of seedling will be provided. + Young trees (1 to 3 years): Valued at 1/3 of its full cost as it 	<ul style="list-style-type: none"> - RCS will determine the value. - Full compensation price is the amount to be calculated from the formula shown in [] without cost of seedling.

Category	Type of Loss	Application	Category of AH	Entitlements	Clarification
				<p>can be replanted plus cost of seedlings.</p> <ul style="list-style-type: none"> - Young trees (More than 3 to 5 years) bearing some fruits: valued at 2/3 of its full cost plus cost of seedlings. - Mature trees (more than 5 years): full bearing fruits valued at full cost plus cost of seedling. - Wood and other Productive Trees: based on age and wood value. 	
2b	Businesses	Commercial use and business use	All AHs who are engaged in businesses, irrespective of titled and non-titled	<ul style="list-style-type: none"> - For businesses which need to be relocated to a new site, an amount equal to loss of projected net income for two months. - For businesses relocated on-site (move back or same area), an amount equal to loss of projected net income for one month. - For illegal businesses such as gambling, prostitution, drugs and similar types, no compensation is paid. 	<ul style="list-style-type: none"> - RCS will determine the amounts. - Both registered and unregistered businesses are compensated except businesses that are not legal.
3. LOSS OF HOUSES AND STRUCTURES					
3a	Houses and Structures	Residential, commercial structures and other assets	Owners of houses, buildings and structures	<ul style="list-style-type: none"> - Cash compensation equivalent to full replacement cost of lost portion of the house/ building/ structure (without depreciation) - If the owner rents or leases, compensation for any improvements/ construction carried out by the renter/leaseholder will be deducted from the compensation payment to the owners. - In case houses/ buildings are rented/leased, any improvements/construction added by renters and leaseholders will be compensated at replacement cost and paid to renter or leaseholder. Owners will not get compensation for such improvements or construction. - In case of loss of only part of the houses/ buildings/ structure and the remaining portion is not usable, compensation will be paid for complete structure at full replacement cost. 	<ul style="list-style-type: none"> - RCS will determine the replacement cost. - When loss is 75 % or more of the floor space
3b	Houses and Structures	Residential, commercial structures and other assets	Tenants and Leaseholders	<ul style="list-style-type: none"> - Cash compensation at full replacement cost for any improvements or construction by the tenants or leaseholders - In the case of no improvements or construction, no compensation is paid. - Transfer/ Disturbance Allowance equivalent to 1 month of rental or lease amount 	<ul style="list-style-type: none"> - RCS will determine replacement cost. - Documentary evidence is required.

Category	Type of Loss	Application	Category of AH	Entitlements	Clarification
3c	Houses and Structures	Residential, commercial structures and other assets	Illegal occupiers/squatters	- Cash compensation at full replacement value of affected structures, including also cost of labor involved in rebuilding such structure)	- RCS will determine replacement value.
3d	Transport Allowance	Transport allowance for household and personal goods	AHs (legal owners, tenants and Illegal occupiers/squatters)	- Fixed Lump Sum allowance per AH based on average cost of transportation to new relocation place for: <ul style="list-style-type: none"> o Up to 5 km o More than 5 km 	- RCS will determine the lump sum amount for 2 cases.
3e	Tombs/ graveyard	Relocation of affected tombs	AHs	- Compensation payment for affected tombs includes full replacement costs associated with a) buying of land (if needed) for re-burial, b) excavation, c) relocation, d) reburial, e) construction of new tombs, and f) other reasonable costs for conducting rituals in accordance with local customs. - If affected people are from EM community, consultation with affected EM households and local EM leaders will be held to ensure the impact is addressed in a manner that is culturally appropriate to the affected EM households/community.	- The relocation of tombs shall be carried out based on full consultation with affected households to meet local customs of affected households. - In case the owner of the affected tombs could not be identified, public announcement has to be made (through popular local media) to look for the tomb owners. Within a reasonable time, if the tomb owners could not be identified, relocation of tombs could be done by a specialized unit in consultation with local authorities and local people. Prior to relocation, photos of unknown tomb(s) shall be taken, and procedures of tomb relocation, and the new location of the tombs shall be documented carefully. - If affected households are from EM group, local EM leaders and community shall be consulted to ensure tomb relocation rituals are fully

Category	Type of Loss	Application	Category of AH	Entitlements	Clarification
					observed and proceeded in accordance with local EM tradition/practice
4. LOSS OF INCOME AND LIVELIHOOD					
4a	Loss of Income during transition Period (Subsistence Allowance)	Loss of Income	AHs who lose income during the transition period including employees of businesses	<ul style="list-style-type: none"> - Lump sum amount equivalent to 3 months of income based on the official monthly poverty rate established by RGC. Monthly Poverty Rate X Number of Members in AH X 3 - In case affected person is classified as poor and vulnerable group, the above lump sum amount is doubled. 	- Monthly Poverty Rate as established by the RGC
4b	Permanent Loss of Livelihood Source	Income Restoration	AHs who lose their source of livelihood permanently	<p>AHs can choose to participate in one of the following Livelihood Restoration options:</p> <p>+ Land-Based Livelihood Restoration for AHs engaged in land-based livelihood (i) facilitate <u>access to replacement land</u> (land-for-land if land is available) to enable AHs to continue their farming activities (rice cultivation, gardening, growing fruit trees, livestock, and other similar land-based farming activities; (ii) <u>access to trainings on farming or livestock</u>; and (iii) <u>lump sum cash of USD 200</u> to assisted affected households to start new income generation activity.</p> <p>OR</p> <p>+ Business-Based Livelihood Restoration for AHs who opt for alternative non-farm business, including: (i) <u>access to training on new business skills</u>; (ii) <u>a lump sum cash of USD 200</u> to assist in starting a new non-farm business.</p> <p>OR</p> <p>+ Employment-Based Livelihood Restoration for members of AHs who lose land-based employment permanently, and prefer to learn new job skills, including: (i) <u>access to employment skills training</u>; (ii) <u>lump sum cash equivalent to 3 months of income</u> based on official poverty rate to supplement income support during the training period.</p> <p>Affected household who are “Poor” and “Vulnerable” by project’s definition will receive doubled lump sum cash (as mentioned above) and have priority in accessing suitable employment opportunity under the Project.</p>	AHs will be eligible for any one of the three options based on their preferred choice.

Category	Type of Loss	Application	Category of AH	Entitlements	Clarification
4c	Relocation	Self-relocation	AHs who will be permanently displaced and relocated	Cash compensation for self-relocation of the AHs to their preferred choice of site.	RCS will determine the cost of self-relocation.
5. TEMPORARY IMPACTS DURING CONSTRUCTION					
5.a	Damages to private and public assets, structures, properties		Local people, private sector and government	<ul style="list-style-type: none"> - Damage to properties that are caused by civil works contractors during construction will be compensated for property owners by involved contractors. Compensation shall be at full replacement costs. - Where public structures such as schools, health centers, recreational parks, public roads, water transmission pipelines, and electricity transmission lines (including electricity poles) are affected, such affected works will be restored, and repaired, or compensated at full replacement cost to ensure normal operation is timely resumed at no cost to the local community, or private entities who own and operate such public facilities. - The principles adopted for this LARPF apply for calculation of compensation. 	
5.b	Unanticipated Impacts			<ul style="list-style-type: none"> - Any unforeseen impacts or damage due to the Project will be properly assessed and compensated in accordance with the LARPF and AIIB's ESF. The Borrower will inform AIIB of the occurrence of the unanticipated impacts and actions to be undertaken to mitigate these. These shall also be included in the monitoring report to AIIB. 	

Source: Appendix 6 of SOP-LAR

Annex 4 – Indicative Internal Monitoring Indicators for Land Acquisition
Indicative Internal Monitoring Indicators for Land Acquisition

Purpose	Activities	Monitoring Indicators
Identification of compensation recipients	Verify list of compensation recipients against eligibility criteria for compensation	Number of persons in list of compensation recipients who do not meet eligibility criteria (included in error)
	Identification of persons who may claim eligibility for compensation but are not included in list of compensation recipients. Separate verification should be performed for each claim.	Number of persons who meet eligibility criteria but not included in list of compensation recipients (excluded in error)
Verification of affected area and assets	Confirmation of area of affected assets, but with legal ownership and without, against the RP / A-RP	Area of land subject to acquisition, for which compensation has been paid
		Area of other assets subject to acquisition, for which compensation has been paid
Verification of compensation amount, processing and payment	Examination of financial documents	Number of persons who received compensation in time and in full amount, disaggregated by compensation type
	Identification and analysis of reasons for compensation not being paid in full and in time	Number of persons who did not receive compensation in time and in full, disaggregated by compensation type
		Amount of funding allocated for payment of compensations
	Identification of reasons for which funds for compensation have been under- or overspent	Rate of spending of funds actually allocated for compensation, as % of amount envisioned in the RP/A-RP
Verification of compensation timeline	Identification of reasons payment of compensation is delayed (i.e., inheritance issues, court case)	Number of persons who received delayed compensation, disaggregated by compensation type and reason for delay; and any changes in amount of compensation (if any)
Verification of consultation and participation	Determine level of involvement and reasons for inadequate participation	Number of compensation recipients participating in consultations and coordination meetings at each stage of land acquisition / resettlement process, disaggregated by vulnerability status and IPs
		Number of IPs consulted in their own language through verbal translation
	Examination of grievance cases; analysis of disputes and complaints content and the resolution of conflicts	Number of complaints received disaggregated by grievance type and project activity
		Number of complaints resolved disaggregated by grievance type and project activity

Annex 18 – List of key SEA/SH service providers

- **Cambodian Women's Crisis Center (CWCC)** works on prevention and provides comprehensive protection services for GBV survivors, including shelter, trauma and psychosocial counseling, health referral, legal consultation and support in court, and reintegration into the community. CWCC currently operates four (04) regional shelters with the head office in Phnom Penh. Each can accommodate up to 50 clients who can stay 1-3 months.
- **Cambodian Human Rights and Development Association (ADHOC)** focuses on GBV including rape, Intimate Partner Violence (IPV), human trafficking and migrant abuse. They conduct investigations and provide legal advice to survivors. They run a radio show to disseminate information to the public about their legal rights around migration, GBV and IPV. They support networks for survivors and encourage survivors to become human rights defenders in their community, who can advocate to local authorities and provide counseling to community members. They have produced materials and guidelines for women in the community to help them file complaints and seek support for legal aid.
- **Gender and Development for Cambodia (GADC)** works at the grassroots level through community outreach to ensure that women are able to speak out about their concerns and network, and to change men's attitudes and behaviors about gender and GBV. They also work with youth, placing them as interns in commune councils, to help link the CIP process with the needs of the community. GADC has programs in Kampong Chhnang, Kampong Speu, and Pursat provinces.
- **Women Peace Makers (WPM)** works on gender and women's issues in peace and conflict transformation and address GBV through capacity building for commune dispute resolution committees and Commune Committees for Women and Children (CCWC) at Commune and District levels for more gender sensitive alternative dispute resolution and mediation, to ensure that service providers are more gender responsive when dealing with GBV. WPM has the office in Phnom Penh.