KINGDOM OF CAMBODIA Livelihood Enhancement and Association of the Poor (LEAP - P153591)

Environmental and Social Management Framework (ESMF)

January 9, 2017

1. The LEAP project will be implemented in the two distinct contextual and institutional environments of the mostly rural Siem Reap Province and the rapidly urbanizing Phnom Penh Capital. The core project activities will be separated into rural and urban components with specific geographical scope and implementation arrangements customized to each unique setting while maintaining consistency and continuity across the project. The key beneficiaries of the project will be IDPoor¹ and vulnerable households in the target 47 communes and 13 Sangkats in Siem Reap Province and Phnom Penh Capital, respectively.

2. As most of the project activities for the Livelihood Enhancement & Association of the Poor (LEAP) project are to be determined during project implementation based on community demand, it is not possible to develop a firm Plan as to how to address the environmental and social risks that may arise. As such, two safeguards instruments have been prepared; the Environmental and Social Management Framework (ESMF or Framework) and the Resettlement Policy Framework (RPF)² in accordance with the World Bank Safeguard Policies. The ESMF lays out the environment and social risk assessment requirements for activities financed, the Project actions to mitigate risks and potential negative impacts on local people and the environment, and the institutional arrangements to execute the ESMF during project implementation.

3. The Project is assessed as EA category "B" provided that LEAP's investment activities will only cause minor, temporary and self-contained environmental and social risks that can be managed through this ESMF and the RPF. In the unlikely case that the results of project screening or assessment determine that an activity to be supported under the project is of high risk, the Ministry of Interior (MOI) will contact the World Bank to determine whether such an activity is eligible based upon the significance of potential impacts, risks and the capacity of the implementing agencies to manage such risks.

4. This ESMF is informed by environmental and social analysis conducted under the LEAP pilot phase which was implemented from 2010-2012. In preparation for the pilot project and eventual project expansion, an Environmental Assessment and a Social Assessment were prepared covering the target areas in Siem Reap Province. An Environmental Management Framework (EMF) was developed and applied during the pilot phase and the lessons of implementation are incorporated into this ESMF. As Phnom Penh has been added as a target project area subsequent to the pilot phase, an Urban Poor Community Needs Assessment was conducted in selected communities in Phnom Penh in 2015 to better understand the needs of target communities and the context for addressing poverty in the urban setting. This Needs Assessment has further informed the design of this ESMF including the RPF as has the completion of an impact evaluation of the pilot phase which focused heavily on the measurement of social capital as well as ongoing consultations with target beneficiary communities in Siem Reap and Phnom Penh.

5. While the pilot phase did not include small-scale community infrastructure investments, this activity type has been added to the proposed new phase of the project. As such, this ESMF draws heavily upon the time-tested, social and environmental risk management procedures included in the Commune/Sangkat Fund Project Implementation Manual (CSF PIM). The Commune/Sangkat Fund has been providing grants to every Commune/Sangkat in the country since 2003 for activities such as road improvements, water supply, irrigation, and other activities that are consistent with the activities to be financed under LEAP. The last update of the CSF PIM was undertaken in 2009. This CSF PIM's relevant

¹ Since IDPoor surveys are only conducted every three years, commune and Sangkat leaders would be asked to identify potential households beneficiaries that may have become poor since the last survey due to economic factors (commodity price drops), natural calamities (drought, floods, destroyed crops) or other shocks based on the IDPoor questionnaire. Those identified as new IDPoor households would be given a proxy means test based on the IDPoor methodology to validate their eligibility.

² *The RPF is part of the ESMF and will be disclosed as a standalone document.*

procedures and forms will be applied for the implementation of community infrastructure activities under LEAP. In addition to the CSF PIM, the ESMF and the RPF include measures for identifying and managing the environmental and social risks of other project-financed activities that are not included in the CSF PIM, in particular, small-scale livelihood investments by individual households, self-help groups and producer groups. MOI will be responsible for ensuring that the provisions of the ESMF are followed and complied with during implementation.

6. This ESMF has been prepared based on lesson learnt from the LEAP Pilot Project and environmental assessment conducted at various stages of the project preparation. This ESMF will be annexed to LEAP's Project Implementation Manual (PIM). This ESMF document is considered a living document and could be modified and revised in line with the changing type of the project activities. When situations make it appropriate that the ESMF be revised, the World Bank will be consulted prior to its revision and any changes or revisions to the ESMF will require World Bank No-Objection.

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AC	Agricultural Cooperatives
CCs	Commune Councils
CLF	Commune Level Federations
CLIF	Community Livelihood Investment Fund
СР	Community Professional
C/SF	Commune/Sangkat Fund
EMP	Environment Management Plan
ESMF	Environmental and Social Management Framework
IDA	International Development Association
IDPoor	Poverty Identification Process
EIA	Environmental Impact Assessment
EMF	Environmental Management Framework
IEIA	Initial Environmental Impact Assessment
IPM	Integrated Pest Management
IRM	Immediate Response Mechanism
LEAP	Livelihood Enhancement and Association of the Poor Project
M&E	Monitoring and Evaluation
MAFF	Ministry of Agriculture, Fisheries and Forestry
MFIs	Microfinance Institutions
MIP	Micro Investment Plans
MoE	Ministry of Environment
MoI	Ministry of Interior
NCDD	National Committee for Sub-National Democratic Development
NCDDS	National Committee for Sub-National Democratic Development Secretariat
NGO	Non-Government Organization
PG	Producer Group
PIM	Project Implementation Manual
PPC	Phnom Penh Capital
RGC	Royal Government of Cambodia
RPF	Resettlement Policy Framework
SHG	Self-Help Group
SMT	Sub-Management Teams
TEGs	Technical Environmental Guidelines
TSSD	Tonle Sap Poverty Reduction and Smallholder Development
UPCs	Urban Poor Communities
WB	World Bank

1.1 Purpose of ESMF

1. The purpose of the Environmental and Social Management Framework (ESMF) is to ensure that LEAP's activities are screened for any negative social and environmental impacts and mitigating measures are taken into account in activity design and implementation. In other words, the ESMF is designed to ensure the LEAP's investments do not create or result in significant adverse impacts on local livelihoods and the environment, and that potential impacts are identified, avoided or at least minimized. In particular, the ESMF attempts to lay out screening processes and environmental and social guidelines aiming at:

- (a) Preventing and/or mitigating any environmental and social impact that may be resulting from the proposed activities,
- (b) Ensuring the long term environmental sustainability of benefits from proposed activities by securing the natural resource base on which they depend, and
- (c) Facilitating, in a pro-active manner, activities that can be expected to lead to increased efficiency in the use and improved management of natural resources resulting in the stabilization and/or improvements in local environmental quality and human well-being as well.

2. This ESMF has been drawn on the lessons learned from phase 1 conducted in 2010 to inform the design of the LEAP project in Siem Reap. The relevant environmental and social procedures and formats of the Commune/Sangkat Fund Project Implementation Manual (CSF PIM) were integrated into the ESMF. The CSF PIM itself is developed based on Cambodia's environmental and social legislation, as well as the lessons from World Bank and ADB operational and safeguard implementation experience in previously applying the CSF PIM. The CSF PIM has been developed and updated, most recently in 2009, in order to guide the Commune/Sangkat investment projects to be in-line with international standards of environmental and socially sustainable development practice. The CSF PIM requires the application of 'environmental and social screening,' 'environmental analysis' as well as 'land studies' as part of the subnational, commune development investment system. Therefore, actions are identified by sub-national governments to mitigate risks and potential negative impacts on local people and the environment where sub-project proposals are deemed eligible for project financing, as well as the institutional arrangements to execute the ESMF during project implementation.

SECTION II: PROJECT DESCRIPTION

2.1 **Project Development Objectives**

3. The project development objective (PDO) is to improve access of poor and vulnerable households in selected communities to financial services, opportunities for generating income, and small-scale infrastructure, and to provide immediate and effective response in case of an eligible crisis or emergency.

2.2 **Project Beneficiaries**

4. The key beneficiaries of the project would be the IDPoor³ and vulnerable households in the target 47 communes and 13 Sangkats in Siem Reap Province and Phnom Penh Capital, respectively.

³ Since IDPoor surveys are only conducted every three years, commune and Sangkat leaders would be asked to identify potential household beneficiaries that may have become poor since the last survey due to economic factors (commodity price drops), natural calamities (drought, floods, destroyed crops) or other shocks based on the IDPoor questionnaire. Those identified as new IDPoor households would be given a proxy means test based on the IDPoor methodology to validate their eligibility.

5. The beneficiaries in Siem Reap Province would come from the 47 communes that did not receive support from the TSSD Project: 42 communes did not receive any TSSD support and will be fully covered by LEAP; and 5 communes that did not receive full coverage by TSSD but have above average poverty levels, will have villages included in LEAP. The beneficiaries in Phnom Penh Capital would come from the 13 Sangkats that were selected as follows: (a) for the eight districts where IDPoor data is available, the Sangkats with the largest total number of IDPoor households were selected-- one Sangkat each from the six districts comprising 10 or fewer Sangkats, and two Sangkats each from the two districts with more than 10 Sangkats; and (b) in the four districts for which IDPoor data is not available due to their central/downtown location, one Sangkat per district which has the highest total number of urban poor communities (UPC) households as identified by Phnom Penh Capital was selected. Using a combination of IDPoor and UPC criteria allowed the inclusion of both peri-urban and central-urban districts. The Phnom Penh coverage was purposely set at a modest level to allow the piloting of project activities in the urban context, with the potential of scaling-up on the basis of good implementation experience as the project progresses.

6. The IDPoor household members of existing and to be established SHGs, producer groups and agricultural cooperatives would be the main project beneficiaries in Siem Reap. IDPoor households would also be the primary beneficiaries of skills development and employment assistance, with additional use of proxy means testing for applicants who do not have IDPoor cards, but may still meet the IDPoor criteria. It is expected that all households in the target communes/sangkats would benefit from the planned infrastructure improvements under the project, but preference would be given to priorities expressed by IDPoor households to ensure that they benefit. Not all communities will be eligible to receive community infrastructure –only communities classified as permanent settlements will be eligible.

2.3 **Project Description**

7. The project would be implemented in two distinct contextual and institutional environments of the mostly rural Siem Reap Province and the rapidly urbanizing Phnom Penh Capital. The core project activities would be separated into rural and urban components, each would have specific geographical scope and implementation arrangements which are customized to each unique setting while maintaining consistency and continuity across the project.

2.4 **Project Components**

8. The project would be implemented in two distinct contextual and institutional environments of the mostly rural Siem Reap Province and the rapidly urbanizing Phnom Penh Capital. The core project activities would be separated into rural and urban components, each would have a specific geographical scope, and implementation arrangements would be customized to each unique setting while maintaining consistency and continuity across the project.

9. Component 1 is the rural component and would be implemented by the Siem Reap Provincial Government. It would cover 47 communes (including 6 communes included in the LEAP pilot) that are not receiving support from the ongoing Tonle Sap Poverty Reduction and Smallholder Development (TSSD) Project. Component 2 is the urban component and would be implemented by the Phnom Penh Capital in 13 Sangkats (urban equivalent of communes). Component 3 would support overall project management and administration activities such as subnational coordination, intergovernmental coordination, safeguards and fiduciary management and supervision, and monitoring and evaluation. Component 4 is part of IDA's support to an immediate response mechanism (IRM) in Cambodia. It has an initial allocation of zero dollars However, if there would be a formal request from the government in the event of an eligible emergency in the future, this component would allow the reallocation of a portion of the undisbursed project balance for recovery and reconstruction purposes.

10. Component 1: Improving Livelihoods for Rural Poor and Vulnerable Households (US\$14.48 million). This component aims to address the needs of the IDPoor and vulnerable households

in the 47 communes in Siem Reap Province through a demand driven approach. Activities would include: (a) conduct of organizational and capacity building support to SHGs, producer groups and agricultural cooperatives; (b) provision of seed grants for their livelihood sub-projects; (c) conduct of market studies; (d) extension of business support services; (e) skills development training; (f) employment support services and (g) provision of productive infrastructure to improve livelihood and increase productivity. As the predominant sources of income for these rural poor households are from agriculture, livestock and fisheries, the project would leverage the technical support of the Ministry of Agriculture, Fisheries and Forestry (MAFF) and other technical service providers. Drawing from the experience of the LEAP pilot, this component would be implemented by the Siem Reap Provincial Government through the subcomponents described below.

11. **Sub-Component 1.1: Building and Strengthening Institutions of the Rural Poor (US\$8.27 million).** This would support the formation and strengthening of self-governed and well-functioning institutions of the poor and enabling their members to engage jointly or individually in productive activities. SHGs would be assisted initially in thrift and credit activities with the aim of potentially aggregating upward to form commune-level federations and cooperative associations such as producer groups or agriculture cooperatives. The services of non-government organizations (NGOs) or other private service providers would complement government efforts to motivate and mobilize beneficiaries for group formation, ensuring leadership and supervision, and provide guidance and capacity building towards sustainability. Support staff would be based in communes to facilitate group formation, awareness raising and training, and operations of credit and savings groups. Support would also be provided, on a demand-driven basis, to the formation and institutional capacity building of informal producer groups or formal agricultural cooperatives. These groups, and individual farmers, would be assisted and strengthened through facilitation of market linkages, technical assistance and capacity building for producers to increase access to assets, skills, technology and markets in key value chains.

Self-Help Group Mobilization, Formation and Training

12. NGO service providers would be engaged to undertake group formation and capacity building of SHGs and other beneficiary groups (producer groups, agricultural cooperatives, etc.). They would cover geographically contiguous clusters of approximately 10 communes and would be assisted by District Facilitators (DFs) and Commune Councils and community-based resource persons like Community Professionals (CPs) and Commune Extension Workers (CEWs).

13. The DFs would be contracted by the Siem Reap Sub-Management Team (SMT) for each of the target districts to facilitate and support project activities. They would coordinate with NGO service providers and respective District Administrations and Commune Councils to leverage their engagement. The Commune Councils would play a central role in the identification of IDPoor households and formation of SHGs, while village- and community-level CPs and CEWs who have experience in social mobilization would be identified and trained to help as resource persons for the SHGs and other livelihood groups.

Formation of Village Associations and Commune Federations

14. The project would encourage SHGs and their members to form federations at the commune level. The formalization of federations would enable them to engage with other public and private technical and financial service providers at a higher level. Producer groups and agriculture cooperatives are recognized institutions that receive public support and can be effective partners for private sector businesses. The project would engage the services of NGOs, Department of Agriculture Cooperatives and other public and private service providers to conduct training and capacity building activities to these federations.

Access to Finance and Facilitation of Linkage with Formal Financial Sectors

15. The SHGs and federations of beneficiary groups would be the entry points to improve the access of the poor to financial services. The savings and credit functions of these groups would help them to gain experience in small-scale investment, develop credit history for poor households and help change the risk perception by formal financial institutions. Under the project, the beneficiary households would be capacitated to use their initial savings as the basis for SHG formation and intra-group lending. For SHGs that have achieved threshold performance and have developed Micro Investment Plans (MIPs) for member households through a participatory process, the project would complement the SHG savings with seed grants on demand driven basis. The grant size would be determined by the number of members and is expected to be US\$1,000-1,500 per SHG, at 10-15 members per SHG. The Commune Councils would help in the initial screening of funding proposals and identify any risks that would need to be considered by the SMT in making decisions. The CPs and CEWs would also assist the Commune Councils in screening proposals/MIPs from SHGs.

16. Where commune level federations (CLFs) are established and choose to perform an on-lending role, the project would provide them with Community Livelihood Investment Fund (CLIF) grants of up to US\$37,000 per federation. The grant funds would be for on-lending to the federation's member groups that are not qualified to access credit from microfinance institutions (MFIs) and other formal banking institutions for their planned investments. The project would also link the federations with financial institutions to access additional/bigger credit funds and other financial services.

Improved Access to Markets

17. Poor rural households in Siem Reap are dependent on production systems which are constrained by access to finance but also by insufficient/lack of information, resources, infrastructure and market access. In this regard, the project would support training and market linkage services for the beneficiary groups on improving production efficiency; productivity enhancement; access to technology extension, logistics infrastructure and information services; and building pro-poor market systems for small and marginal producers. The MAFF, primarily through the provincial and district-level staff, would be engaged and supported by the SMT to provide demand-driven support services in response to the needs of the beneficiary groups and as required in their MIPs and CLIF proposals. An annual work program for MAFF would be agreed with the SMT each year based on demand and subject to updating as needed. At the field level, the project would support the engagement of CEWs and Commune Animal Health Workers (CAHWs). If and as required, other subject matter specialists from, and outside MAFF, would be tapped to provide technical and managerial support.

18. **Sub-Component 1.2: Enhancing Skills and Employment Opportunities for the Rural Poor** (US\$1.96 million). Wage employment is often associated with more stable income and consumption patterns for the household due to higher predictability of income. However, to maximize the potential benefits of wage employment locally, workers require information about the labor market and opportunities for employment, as well as better, employable skills and knowledge that are tailored to meet labor market demand. In Siem Reap Province, distance to training centers, cost of tuition fees, limited information about job opportunities and skill requirements, and distance to employment centers are key obstacles in finding better employment. These challenges would be addressed by the project to take advantage of employment opportunities in view of the growing tourism industry and associated developments in the province.

19. This sub-component would provide a complementary livelihood pathway to self-help group, value-chain and market access support under Sub-component 1.1 by investing in the development of beneficiary skills (particularly unemployed youth and women from poor households) and the ability to obtain new or improved wage employment. Activities would include: (a) local labor market surveys and training provider assessment; (b) beneficiary selection; (c) employability training and career counseling; (d) voucher provision and skills training; (e) job placement and employment support.

Local Labor Market Surveys and Training Provider Assessment

20. A needs assessment would take place during the first six months of implementation as the first activity undertaken by a Human Resource Development Service Provider (HRDSP), contracted by MOI to help determine local labor market trends and employer demand for specific occupations and/or technical skills in areas near target communes. The HRDSP would also assess the quality of local training providers, to determine a menu of available training options. The project would identify and negotiate agreements with training providers to offer a package of complementary activities, such as sensitization of wage employment opportunities, provision of soft skills, counseling, job search training, and job matching services. Preference would be given to training providers that are recognized by the Ministry of Labor and Vocational Training (MoLVT) or other government agencies, with proven track record and good performance as per employers' hiring record, and which can provide their trainees with certified diplomas upon completion of the programs. In the public domain, the project may offer access to training options to supplement the ADB-funded TVETSDP Project led by MoLVT, particularly their enterprise-and center-based training options.

21. The Project would systematically engage with potential employers, job matching agencies/NGOs, and the Ministry of Labor's public employment services platform to customize training offerings. To the extent possible, both training and employment opportunities that are as close as possible to the home of the participants would be identified.

Beneficiary Selection

22. The provision of skills development support aims to reach a total of approximately 1350 individuals in Siem Reap. Activities would be targeted to individuals from IDPoor 1 and 2 households who are not currently enrolled in formal or informal education or training. In addition, non-IDPoor individuals may benefit from the program if they meet a pre-specified set of criteria which would be aimed to reflect the IDPoor approach. Self-selection would be the primary method for candidate identification, but Commune Councils, SHGs and CLFs, would also be invited to identify and encourage potential participants, particularly unemployed women and youth, within their communities. Given distance constraints, the program would focus on communities that are in close proximity to both training and employment opportunities.

23. A screening/intake committee in each commune would be established to be in charge of the intake process. The committee would comprise of DFs, members of the Commune Councils, SHGs, and CLFs. Their responsibility would include IDPoor identification/validation; screening of potential participants who are not IDPoor; assessment of applicants' eligibility, individual skills level of educational attainment and desired training. If the number of qualified individuals exceeds the maximum number of Project participants per commune per year, there must be an equal number of male and female participants, and the selection process will be done on a random, lottery basis so as to ensure fairness. Priority would be given to IDPoor 1, followed by IDPoor 2 and then individuals who do not have IDPoor identification, but who meet IDPoor qualification criteria.

24. The Human Resource Development Service Provider (HRDDSP) will support the committees in completing the intake process and in undertaking most of the activities under this sub-component.

Employability Training and Career Counseling

25. Upon acceptance into the skills building activity of the Project, individuals will participate in an induction and skills development planning workshop organized by the HRDSP. The workshop will include the following elements: (a) introduction to the objectives and support provided under the "Enhancing Skills and Employment Opportunities" sub-component; (b) information on local labor markets, career development training and preparation skills development plans; (c) provision of training in "soft," employability skills such as how to find a job, the expectations of employers, etc. Upon

completion of their skills development plans, participants will identify training programs of interest from a list of training institutions provided by the Project. Participants will also be invited to nominate additional training institutions if they are not already on the list and these will be screened by the HRDSP to see if they meet the qualification criteria. If they meet the criteria, and agree to provide the support required by the Project, they will be added to the list.

26. Opportunities for one-on-one career counseling will also be built into the workshop format and continue after the workshops on a demand-driven basis. Individuals who successfully complete this activity and prepare complete skills development plans will proceed to the next step of the process.

Voucher Provision and Skills Training

27. The HRDSP will review all of the skills development plans and training providers identified by the participants to recommend a training package for each participant. The training to be offered would mainly be classified as level 1 (CQF 1) under the Cambodia Qualification Framework (CQF), short-course, technical vocational education training (TVET) of 2 weeks to 4 months, as well as more limited support for longer-term (up to 12 months) courses at CQF Level 2. Consultations during project preparation identified interest in a range of skills and occupations such as motorbike repair, sewing, and hospitality services. The types of training to be supported under the project would remain flexible so that participants could propose subject areas that may not be typical vocational training topics, but which reflect labor market demand, and for which there is an acceptable training provider. Training vouchers for tuition would be up to \$300 for a short course and up to \$600 for a long course. The Project would also provide allowances for travel, food and accommodation, if needed, to facilitate beneficiary participation.

28. Upon participant confirmation of the training package to be supported by the Project, an agreement would be signed between the Project and the Participants and between the Project and the Training Provider. Each party would agree to undertake various responsibilities under the agreements. Participants would be provided with vouchers that they can submit to the training providers that could then be redeemed with the Project to initiate a payment.

Job Placement and Employment Support

29. One critical responsibility of the training providers is that they assist the participants in identifying and obtaining jobs upon completion of their training. The HRDSP will monitor training provider support in this respect and urge further support as needed. The HRDSP will also monitor participant acquisition of employment and conduct tracer studies to determine whether participants remain in their new positions and the impact employment is having on their livelihoods. Commune Councils, SHGs and CLFs would also follow-up with trainees to encourage their continued attendance, provide possible logistical/transportation support, and monitor individual progress in the completion of coursework and post training/employment status.

30. **Sub-Component 1.3: Improving Basic Services and Community Infrastructure for the Rural Poor (US\$4.25 million).** This would facilitate provision of small-scale economic infrastructure sub-projects which respond to the priority needs of poor households in target communes and contribute to their income generating potential. Responses to the needs to increase productivity, resilience and adapt to natural and economic shocks include access to reliable and affordable water supply and sanitation services, storage or small warehouses, small-scale irrigation schemes, community access roads, and better on-farm water management practices.

31. The identification of priority needs in poor communities would follow the existing, annual participatory identification and planning process resulting in a Commune Investment Plan (CIP), and thus empowering the intended main beneficiaries to advocate for their investment priorities. The project would support the active participation of IDPoor households in the identification and planning process for CIP proposals that specifically address their needs for economic infrastructure. The allocation of funds to

finance prioritized investment proposals would be calculated based on the number of IDPoor households in a commune. The average allocation per commune would be approximately US\$85,000 for the duration of the project. After an initial year of planning, the amount would be available for expenditures over 3 or 4 years, depending upon the cost of sub-projects chosen for financing by the Sangkats. A commune can combine project funds with funds from other sources when making investments. Up to 188 sub-projects would be implemented over the course of the Project period if all of the 47 communes were to implement 4 sub-projects each.

32. Implementation of infrastructure investments would follow the procedures outlined in the Commune/Sangkat Fund Project Implementation Manual (CSF PIM). Once a sub-project is selected for financing, the CSF PIM procedures, except for payment mechanism, are initiated, beginning with a safeguard screening and the formation of a Project Management Committee. The Commune Councils lead the process, including procurement and management of a contractor, and with support from the provincial and district administrations' Technical Support Unit. To supplement the capacity of the provincial, district technical teams, an infrastructure specialist would be contracted as part of the SMT to supervise the infrastructure investment process, provide technical assistance and monitoring, and support the Commune Councils in contracts supervision and management.

Component 2: Improving Livelihoods for Urban Poor and Vulnerable Households (US\$3.72 million)

33. This component aims to address the needs of the IDPoor and vulnerable households in 13 Sangkats in Phnom Penh Capital through a demand driven approach. Activities would include: (a) skills development training; (b) employment support services; and (c) provision of productive infrastructure to improve livelihoods and increase productivity. This component would be implemented by the Phnom Penh Capital through the following sub-components.

34. **Sub-Component 2.1: Enhancing Skills and Employment Opportunities for the Urban Poor** (US\$1.69 million). Wage employment opportunities in urban areas of Phnom Penh constitute an even more significant part of urban poor's livelihoods than in rural areas. And while there are new job growth areas in Phnom Penh such as construction and the garment industry, these types of positions are often unreliable, casual labor with low wage rates and limited potential for advancement. To tap the potential of stable and well-paid wage employment, workers require, as in the rural areas, reliable information about the labor market and opportunities for employment, as well as better, employable skills and knowledge that are tailored to meet labor market demand.

35. This sub-component would provide investment in the development of beneficiary skills (particularly unemployed youth and women from poor households) and the ability to obtain new or improved wage employment, i.e. taking advantage of the opportunities offered by small, medium and larger enterprises present in Phnom Penh. As in the rural sub-component 1.2, activities would include: (a) local labor market surveys and training provider assessment; (b) beneficiary selection; (c) employability training and career counseling; (d) voucher provision and skills training; (e) job placement and employment support.

36. The Project would address these challenges in urban areas in a very similar manner as for rural areas described in sub-component 1.2. It is expected that the project will employ only one Human Resource Development Service Provider (HRDSP) for both Phnom Penh and Siem Reap Province. A Human Resource Development Specialist would be hired to work in each SMT to coordinate the work of the HRDSP in each location and to facilitate the roles of the districts and communes.

37. Sub-Component 2.2: Improving Basic Services and Community Infrastructure for the Urban Poor (US\$2.03 million). This would follow the same process as in Sub-Component 1.3, and use the CSF PIM. To ensure that the sub-projects would most benefit the poor and vulnerable households such as the UPCs, the community planning meetings would include both IDPoor households and

representatives of the UPCs. The types of infrastructure facilities that would be funded include, but are not limited to, drainage system, community road/footpath, water supply and sanitation system, and street lighting. These community infrastructure investments have been identified in the UPC needs assessment and are expected to increase the beneficiaries' productivity, resilience and ability to adapt to natural and economic shocks.

38. The identification of priority needs in poor communities would follow the existing, annual participatory identification and planning process resulting in a Sangkat Investment Plan (SIP), and thus empowering the intended main beneficiaries to advocate for their investment priorities. The project, mainly through District Facilitators, would support the active participation of IDPoor and UPC households in the identification and planning process for SIP proposals that specifically address their needs for economic infrastructure. The allocation of funds to finance prioritized investment proposals would be calculated based on the number of IDPoor households in a commune. Due to the higher cost of construction and infrastructure in Phnom Penh, an average amount of US\$130,000 is allocated per Sangkat for the duration of the project. After an initial year of planning, the amount would be available for expenditures over 3 or 4 years, depending upon the cost of sub-projects chosen for financing by the Sangkats. A Sangkat can combine project funds with funds from other sources when making investments. Up to 52 sub-projects would be implemented over the course of the Project period if each of the 13 Sangkats were to implement 4 sub-projects each.

39. Implementation of infrastructure investments would follow the procedures outlined in the Commune/Sangkat Fund Project Implementation manual (CSF PIM). Once a sub-project is selected for financing, the CSF PIM procedures, except for payment mechanism, are followed, beginning with a safeguard screening and the formation of a Project Management Committee. The Sangkat Councils lead the process, including procurement and management of a contractor, and with support from the city and khan administrations' Technical Support Unit. To supplement the capacity of the city and khan technical teams, an infrastructure specialist would be contracted as part of the SMT to supervise the infrastructure investment process, provide technical assistance and monitoring, and support the Sangkat Councils in contracts supervision and management.

Component 3: Project Management (US\$3.97 million)

40. This component would support the overall implementation, supervision and coordination of the project at the national, provincial, district/Khan, commune/sangkat, and village/community levels, including: (a) social and environmental safeguard risk management; (b) procurement planning and contracts management; (c) financial management, disbursement and audit; and (d) monitoring, evaluation and communication.

41. Activities would include: (a) establishment and operation of the Project Coordination Office (PCO) under the General Secretariat of the Ministry of Interior (MoI); (b) establishment and operation of respective Sub-Management Teams (SMT) at the Siem Reap Provincial Government and Phnom Penh Capital Hall; (c) engagement of core group of specialists at the PCO and SMT levels to provide technical support and advice for the various components; (d) engagement of district/khan and commune/sangkat level facilitators to provide direct support to activities at the community level; and (e) establishment and operation of the project's procurement, financial management, and monitoring and evaluation (M&E) systems.

42. The effective implementation of the project would require the early establishment of an M&E system. In particular, the conduct of the baseline survey and the setting-up of a dedicated management information system (MIS) would be one of priority activities at project start-up.

Component 4: Contingent Emergency Response (US\$0.00 million)

43. This component, with an initial allocation of zero, is part of IDA's support to an immediate response mechanism (IRM) in Cambodia. The IRM allows the reallocation of a portion of undisbursed balance from the project for recovery and reconstruction support following a formal government request in the event of an eligible emergency.

44. With IDA's support, the government is developing its Emergency Response Manual (ERM) for all projects in Cambodia which make use of this mechanism. The manual would detail eligible uses, financial management, procurement, safeguards and other implementation arrangements. The preparation and acceptance of the manual is a condition prior to disbursement of any funds reallocated to this component. In the event that the IRM is activated, the results framework would be amended as needed, through a formal restructuring to reflect the provision of immediate and effective response to the eligible crisis or emergency.

Targeting and Selection

45. The key beneficiaries of the project would be the IDPoor⁴ and vulnerable households in the target 47 communes and 13 Sangkats in Siem Reap Province and Phnom Penh Capital, respectively. Tables 1 and 2 and Figures 1 and 2, below, provide maps and profiles of the targeted Districts/Khans, Communes and Sangkats.

46. The beneficiaries in Siem Reap Province would come from the 47 communes that did not receive support from the TSSD Project. There are 42 communes that did not receive any TSSD support and will be fully covered by LEAP. In addition, there are 5 communes that did not receive full coverage by TSSD, but which have above average poverty levels and will have respective villages included in LEAP. Table 1, below, provides a list of all target districts and communes in Siem Reap, including the number of target beneficiaries. Figure 1, below, is a map of the target area, identifying the location of target communes.

47. The beneficiaries in Phnom Penh Capital would come from the 13 Sangkats that were selected as follows: (a) for the eight districts where IDPoor data are available, the Sangkats with the largest total number of IDPoor households were selected, one Sangkat each from the six districts with 10 or fewer Sangkats, and two Sangkats each from the two districts with more than 10 Sangkats; and (b) in the four districts for which IDPoor data are not available due to their central/downtown location, one Sangkat per district which has the highest total number of urban poor communities (UPC) households, as identified by Phnom Penh Capital, was selected. In the absence of IDPoor data for the entire city, combined use of IDPoor and UPC criteria allows the inclusion of both peri-urban and central-urban districts. The modest beneficiary target for Phnom Penh is intended to allow the piloting of project activities in the urban context, with the potential of scaling-up as the project progresses. Table 2, below, provides a list of all target khans and Sangkats in Phnom Penh, including the number of target beneficiaries. Figure 2, below, is a map of the target area, identifying the location of target Sangkats.

⁴ Since IDPoor surveys are only conducted every three years, commune and Sangkat leaders would be asked to identify potential household beneficiaries that may have become poor since the last survey due to economic factors (commodity price drops), natural calamities (drought, floods, destroyed crops) or other shocks based on the IDPoor questionnaire. Those identified as new IDPoor households would be given a proxy means test based on the IDPoor methodology to validate their eligibility.

	Communes	Villages		Poo	r Level 1 (2	015)	Poo	r Level 2 (2	2015)	Total	Total	٦	otal Target	
District (2015)	Identified and Proposed (2015)	Identified and Proposed (2015)	Total HHs (2015)	HH	People	%	HH	People	%	Poor Level 1&2 (HH)	Poor Level 1&2 (%)	No. of Communes	No. of Villages	HH IDPoor Level 1&2 (No.)
	Chob Ta Trav	5	828	79	343	9.5%	111	477	13.4%	190	22.9%	1	5	190
	Leang Dai	9	2256	264	1085	11.7%	399	1664	17.7%	663	29.4%	1	9	663
Angkor Thum	Peak Snaeng	6	1203	182	719	15.1%	192	812	16.0%	374	31.1%	1	6	374
	Svay Chek	7	1417	76	289	5.4%	259	1116	18.3%	335	23.6%	1	6	335
	4/4	27	5704	601	2436	10.5%	961	4069	16.8%	1562	27.4%	4	26	1562
	Anlong Samnar	16	2753	75	252	2.7%	347	1555	12.6%	422	15.3%	1	16	422
	Chi Kraeng	14	1976	152	665	7.7%	369	1597	18.7%	521	26.4%	1	14	521
Chi Kraeng	Kampong Kdei	16	2243	131	489	5.8%	281	1239	12.5%	412	18.4%	1	16	412
Chi Kiachg	Kouk Thlok Kraom	18	3187	426	1842	13.4%	339	1630	10.6%	765	24.0%	1	18	765
	Spean Tnaot	15	2205	257	1089	11.7%	460	2037	20.9%	717	32.5%	1	15	717
	5/12	152	29440	2482	10302	8.4%	3557	15618	12.1%	6039	20.5%	5	79	2837
	Kampong Thkov	8	1153	20	93	1.7%	78	381	6.8%	98	8.5%	1	8	98
Kralanh	Sambuor	8	1529	63	243	4.1%	140	558	9.2%	203	13.3%	1	8	203
	2/10	99	13901	376	1395	2.7%	1064	4342	7.7%	1440	10.4%	2	16	301
	Sasar Sdam	14	2720	72	259	2.6%	211	827	7.8%	283	10.4%	1	14	283
	Doun Kaev	13	2807	210	780	7.5%	332	1448	11.8%	542	19.3%	1	13	542
	Kdei Run	7	1092	83	314	7.6%	197	817	18.0%	280	25.6%	1	7	280
	Kaev Poar	8	1409	55	231	3.9%	134	557	9.5%	189	13.4%	1	8	189
	Khnat	12	2160	208	820	9.6%	202	878	9.4%	410	19.0%	1	12	410
	Lvea	12	2362	163	666	6.9%	385	1712	16.3%	548	23.2%	1	12	548
Puok	Mukh Paen	6	1206	91	339	7.5%	222	907	18.4%	313	26.0%	1	6	313
PUOK	Pou Treay	2	419	52	183	12.4%	25	116	6.0%	77	18.4%	1	2	77
	Prey Chruk	12	1883	62	240	3.3%	131	598	7.0%	193	10.2%	1	12	193
	Reul	14	3017	416	1742	13.8%	748	3286	24.8%	1164	38.6%	1	14	1164
	Samraong Yea	6	1278	42	176	3.3%	109	451	8.5%	151	11.8%	1	6	151
	Trei Nhoar	10	2005	247	1002	12.3%	429	1832	21.4%	676	33.7%	1	10	676
	Yeang	5	1002	98	346	9.8%	175	728	17.5%	273	27.2%	1	5	273
	13/14	132	26140	1868	7343	7.1%	3383	14518	12.9%	5251	20.1%	13	121	5099

Table 1: Target Communes and Beneficiaries for Component 1 (Siem Reap Province)

9/12	47/100	916	190008	12561	52855	6.6%	21070	92107	11.1%	33631	17.7%	47	390	14887
	4/5	35	7326	469	2016	6.4%	722	3260	9.9%	1191	16.3%	4	11	314
	Ta Siem	6	1315	105	490	8.0%	122	533	9.3%	227	17.3%	1	2	52
Svay Leu	Svay Leu	11	2183	153	636	7.0%	219	982	10.0%	372	17.0%	1	5	183
	Khnang Phnum	8	937	63	260	6.7%	143	638	15.3%	206	22.0%	1	2	52
	Boeng Mealea	8	1258	78	320	6.2%	77	344	6.1%	155	12.3%	1	2	27
	4/6	46	7560	351	1494	4.6%	912	3957	12.1%	1263	16.7%	4	12	290
	Slaeng Spean	14	2313	113	477	4.9%	292	1242	12.6%	405	17.5%	1	7	224
Srei Snam	Tram Sasar	7	1280	62	276	4.8%	147	717	11.5%	209	16.3%	1	1	29
	Klang Hay	8	714	38	133	5.3%	65	236	9.1%	103	14.4%	1	2	12
	Chrouy Neang Nguon	7	1483	67	280	4.5%	181	782	12.2%	248	16.7%	1	2	25
	2/10	113	22460	2275	9781	10.1%	3036	13474	13.5%	5311	23.6%	2	23	1347
Soutr Nikom	Kampong Khleang	10	2122	515	2287	24.3%	340	1585	16.0%	855	40.3%	1	10	855
	Dan Run	13	2640	180	723	6.8%	312	1347	11.8%	492	18.6%	1	13	492
	5/13	94	32937	1570	7146	4.8%	2898	13771	8.8%	4468	13.4%	5	45	1490
	Sangkat Tuek Vil	12	2452	185	836	7.5%	143	638	5.8%	320	13.4%	1	12	320
Siem Reab	Sangkat Ampil Sangkat Krabei Riel	10	1612	109	438	6.3%	211	824	12.0% 12.2%	320	14.3% 18.5%	1	10	320
	Chong Khnies	7 10	1320 1612	141 37	709 110	10.7% 2.3%	121 194	621 796	9.2%	262 231	19.8%	1	7 10	262 231
	Svay Dangkum	6	2566	107	510	4.2%	242	1120	9.4%	349	13.6%	1	6	349
	8/8	57	13475	594	2456	4.4%	1053	4388	7.8%	1647	12.2%	8	57	1647
	Trapeang Thum	9	1883	145	586	7.7%	130	575	6.9%	275	14.6%	1	9	275
	Roluos	7	1630	152	670	9.3%	141	643	8.7%	293	18.0%	1	7	293
	Mean Chey	6	1220	59	243	4.8%	158	632	13.0%	217	17.8%	1	6	217
Prasat Bakong	Kandaek	10	2875	72	293	2.5%	218	920	7.6%	290	10.1%	1	10	290
	Kantreang	8	2011	47	164	2.3%	84	334	4.2%	131	6.5%	1	8	131
	Kampong Phluk	3	731	22	101	3.0%	59	235	8.1%	81	11.1%	1	3	81
	Ballangk	8	1381	65	257	4.7%	116	459	8.4%	181	13.1%	1	8	181
	Bakong	6	1744	32	142	1.8%	147	590	8.4%	179	10.3%	1	6	179

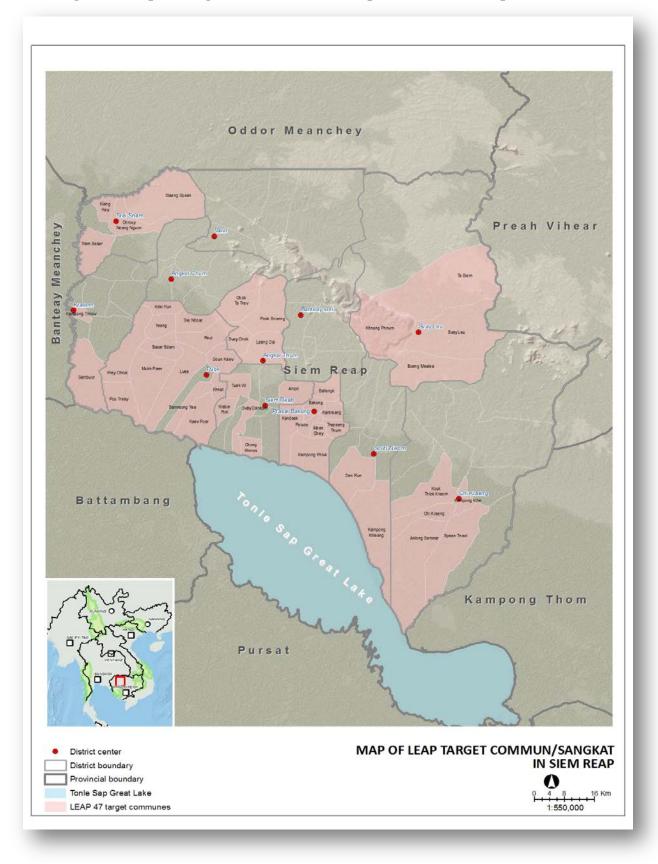


Figure 1: Map of Target Communes for Component 1 (Siem Reap Province)

					IDPoor1			IDPoor2		Total	Total				Poor Com		015			Ta	arget	
Khan	Sangkat	Villa ge/K rom	HHs	НН	People	%	НН	People	%		UPC (No.)	UPC Identi fied (No.)	House s (No.)	Family (No.)	People (No.)	%	Location code	Identi fied villag e (No.)	HH ID Poor 1&2	Hous es UPC	Family UPC	
	Tumnob Tuek	5	2110									6	6	474	495	1948	23.5%	2, 6	2		474	495
Chamkar Morn	1/12	95	24015									9	6	635	681	2727	32.3%	2,3,6	2		474	495
	Srah Chak	24	4089									11	11	658	663	2867	16.2%	1,2,5,6	8		658	663
Daun Penh	1/11	134	15976									17	11	838	901	3874	5.6%	1,2,5,6,9	8		658	663
Prampi Makara	0/8	66	13388																			
	Boeng Kak Ti Muoy	14	2398									6	6	730	829	2512	34.6%	1,2,3	5		730	829
Tuol Kork	1/10	143	26658									19	6	2307	2828	10684	10.6%	1,2,3	5		730	829
	Dangkor	6	4445	61	255	1.4%	172	794	3.9%	233	5.2%	5	5	487	518	2402	11.7%	3,5,6,11	6	233	487	518
	Prey Veng	9	1360	300	1451	22.1%	339	1662	24.9%	639	47.0%	2	2	418	452	2022	33.2%	4,6	9	639	418	452
Dangkor	2/13	87	17854	1100	4585	6.2%	1389	6089	7.8%	2489	13.9%	9	7	977	1047	4832	5.9%	3,4,5,6,11	15	872	905	970
	Chak Angrae Leu	7	2935	156	724	5.3%	191	1065	6.5%	347	11.8%	6	6	702	742	3639	25.3%	2,4,5,11	7	347	702	742
Mean Chey	1/7	59	30984	464	2230	1.5%	590	3237	1.9%	1054	3.4%	28	6	2118	2283	11147	7.4%	2,3,4,5,6,8, 11	7	347	702	742
	Chrang Chamreas Ti Muoy	4	1807	191	846	10.6%	250	1266	13.8%	441	24.4%	5	5	217	313	1452	17.3%	2,4	4	441	217	313
Russey Keo	1/7	30	18214	466	2118	2.6%	805	4988	4.4%	1271	7.0%	38	5	2065	2381	10904	13.1%	1,2,3,4,5,6, 11	4	441	217	313
	Khmuong	13	4119	272	1727	6.6%	221	1416	5.4%	493	12.0%	7	7	1065	1080	4330	26.2%	2,3,6	13	493	1065	1080
Sen Sok	1/6	44	23339	452	2511	1.9%	619	3190	2.7%	1071	4.6%	22	7	2569	2697	11685	11.6%	1,2,3,6,11	13	493	1065	1080
	Trapeang Krasang	13	3476	98	564	2.8%	97	610	2.8%	195	5.6%	9	9	1550	1702	6256	49.0%	6	13	195	1550	1702
	Chaom Chau Pir	16	5900	29	124	0.5%	126	803	2.1%	155	2.6%	2	2	220	220	854	3.7%	6	12	155	220	220
Por Sen Chey	2/13	163	36613	702	2801	1.9%	825	4197	2.3%	1527	4.2%	12	11	1858	2085	7483	5.7%	3,6	25	350	1770	1922
-	Preak Leap	4	2617	119	556	4.5%	210	901	8.0%	329	12.6%	5	5	416	453	2006	17.3%	3,6,11	4	329	416	453
Chroy Changvar	1/5	22	11766	338	1767	2.9%	1061	3618	9.0%	1399	11.9%	14	5	871	850	3597	7.2%	3,6,11	4	329	416	453
	Kork Roka	18	3131	526	2004	16.8%	217	1027	6.9%	743	23.7%	10	10	1470	1498	5794	47.8%	2,3,6	18	743	1470	1498
Preak Pnov	1/5	59	10837	1001	3935	9.2%	760	3510	7.0%	1761	16.2%	10	10	1470	1498	5794	13.8%	2,3,6,11	18	743	1470	1498
	Chbar Ampov Ti Pir	6	4013	276	1498	6.9%	592	3314	14.8%	868	21.6%	6	6	412	636	2589	15.8%	4,6,10,11	6	868	412	636
Chbar Ampov	1/8	49	26489	1707	8056	6.4%	2922	14378	11.0%	4629	17.5%	37	6	1754	2296	10269	8.7%	3,4,6,10,11	6	868	412	636
11/12	13/105	951	256133	6230	28003	2.4%	8971	43207	3.5%	15201	5.9%	215	80	17462	19547	82996	7.6%		<u>107</u>	<u>4443</u>	<u>8819</u>	<u>9601</u>

Table 2: Target Sangkats for Component 2 (Phnom Penh Capital)

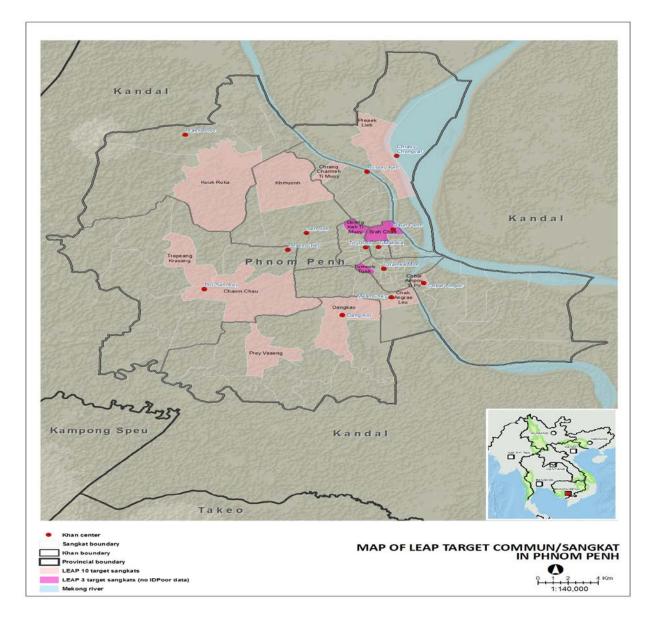
Note: Location code of urban poor community

- Code 1. Community settled along railway
- Code 2. Community settled on public road
- Code 3. Community settled on canal &drainage
- Code 4. Community settled on river side
- Code 5. Community settled on public lake

Code 6. Community settled on provided land by government

- Code 7. Community settled on temporary renting land by government
- Code 8. Community settled on temporary renting land (by private owner)
- Code 9. Community settled on roof top of the old building
- Code 10. Community settled on pagoda, crematorium and cemetery
- Code 11. Community settled on other locations none of the above code

Figure 2: Map of Target Sangkats for Component 2 (Phnom Penh Capital)



2.5 Overview of Project Location

48. Siem Reap province is surrounded by five other provinces, in the north is Otdar Meanchey, in the west is Banteay Meanchey, in the east are Preah Vehear and Kampong Thom, and in the south the province borders partly with Battam Bang and partly with Tonle Sap Lake. In Siem Reap, the project covers 47 communes in 9 districts (Angkor Thum, Chi Kraeng, Kralanh, Prasat Bakong, Puok, Svay Leu, Siem Reap, Srei Snam and Sotr Nikum), that did not receive support from the TSSD Project. 42 communes did not receive any TSSD support and will be fully covered by LEAP; 5 communes that did not receive full coverage by TSSD but have above average poverty levels and will have respective villages included in LEAP [See map above].

49. In Phnom Penh, 13 out of 105 Sangkats (the urban equivalent of a commune) will be included in the project. The beneficiaries were selected as follows: (a) for the eight districts where IDPoor data is available, the Sangkats with the largest total number of IDPoor households were selected. Specifically, one Sangkat each was selected from the six districts with up to 10 Sangkats, while two Sangkats each were selected from the two districts with more than 10 Sangkats; and (b) in the four districts for which IDPoor data is not available due to their central/downtown location, one Sangkat per district which has the highest total number of IDPoor data for the entire city, this criteria allowed the inclusion of both peri-urban and central-urban districts. The lower target for Phnom Penh coverage was purposely done to allow the piloting of project activities in the urban context, with the potential of scaling-up as the project progresses [See map above].

50. A list of LEAP target communes/sangkats in Siem reap and Phnom Penh that are on the Environment Watch-List are listed in Annex 1.

51. From the Environmental Watch-list provided by Siem Reap Province, 20 targeted communes either have, or plan to have some areas protected in the future. Six Communes are covered by natural forest more than 50% of the total area. Twenty-Four targeted communes have natural forest or wet land covered area more than 10% of the total area. None of the Phnom Penh targeted communes are included in the Environmental Watch-List. There are no Sangkats on the Watch List from Phnom Pehn.

SECTION III: KEY SOCIAL AND ENVIRONMENTAL CONDITIONS

3.1 Environmental Conditions

52. In April 2010, an Environment Assessment (EA) was completed for the LEAP project, focusing on target communes in Siem Reap Province. Below is a summary of the update environmental conditions in Siem Reap, supplemented by comparable data for Phnom Penh Capital.

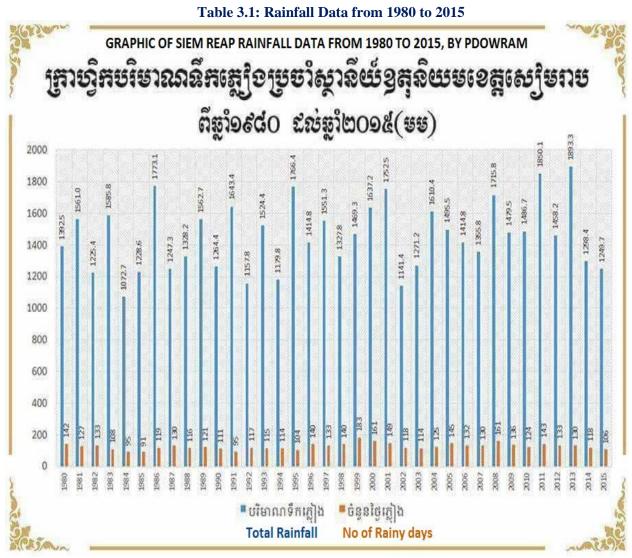
3.1 1 Physical Resources

(a) Climate

53. Cambodia's climate is dominated by a seasonal monsoon: the tropical wet and dry season with a distinctly marked seasonal difference. The monsoon brings rainfall beginning in May and lasting until October with rain occurring almost daily during much of this season, while the dry northeast monsoon starts in November and continues until April. From November to February the weather is generally mild and dry, whereas the weather is hot from February until the onset of the Southwest monsoon.

54. The climate in the Siem Reap province like other province/cities in Cambodia is strongly influenced by the tropical monsoon, modified by the local topography (from Kulen Mountains to Tonle Sap Great Lake). The cooler dry northeast monsoon (November to March) is followed by the southwest monsoon (May to October) with stronger winds and higher humidity and approximately 90% of the year's rainfall. (Peak rainfall occurs in August/September and the lowest rainfall in February. Air temperature is highest in April (average maximum temperature is 24° C to 30° C) and lowest in January and December (average minimum is from 17° C to 24° C).

55. Rainfall is one of the most important variables for design of storm water systems determining the rate and volume of surface run off to be conveyed through the system. Run off estimates are usually based on historical rainfall data that provide frequency, intensity and duration of storm events. Rainfall data recorded at Siem Reap Meteorological over 24 hours periods is shown in **Table 3.1 below**.



Source: Provincial Department of Water Resource and Meteorology, 2015, Siem Reap

(b) Air Quality

56. In Cambodia, air pollution is basically a localized problem. It is assumed that the emission from socio-economic activities, roads construction, land transport, petroleum use in energy generation, industries, and use of biomass fuel which are the mainly contributors to the air pollution.

57. Air quality in Siem Reap and Phnom Penh province are similar to other urban areas in Cambodia. Main pollutant sources include dust generation from unpaved roads, construction works and exhausted pollution from the transport sector, in particular soil transport trucks and tuks-tuks. This air pollution problem is becoming even more important for World Heritage Sites like the Angkor Archeological Park (Siem Reap) due to the hundreds of tuk-tuks and buses carrying the tourist. Numerous households in rural areas and even in Phnom Penh as well as restaurants rely on open fires to cook food over charcoal and, less often wood.

58. There are no data available on air quality in the project area. However, according to field observations and the local community, air pollution is not a serious problem yet, but dust from road construction and soil transportation is sometimes a problem in the dry season especially. In addition, due to no sufficient garbage collector to collect garbage in Phnom Penh project area, air pollution from garbage burning in poor communities is an issue.

59. Noise pollution data are also not available for Siem Reap and Phnom Penh province. However, according to site observations the noise condition in the area is still good. Main noise sources are traffic, construction material transport, and human activities: construction and other commercial activities within project area.

(c) Topography, Geology and Soil

60. According to the Crocker soil map, 1962, soils within the Siem Reap province are classified into three categories in accordance to their potential for agriculture, forestry or both (i.e. tree crops and agro-forestry). Firstly, acid lithosols are found in the northern hilly areas of Kulen Mountain and cover 35% of the area. This soil type is not very suitable for agriculture and should remain under forest cover. Secondly, alluvial Lithosols and cultural Hydromorphics are fertile and very suitable for rice production. They occur mainly along Stueng Siem Reap and Stueng Rolus and cover together 15% of the area. Thirdly, plinthicite and red-yellow Podzols are good forest soils, but not so suitable for rice production. They have good potential for plantations such as teak or agro-forestry systems. They occur in the flat lowland area and dominate with 54%.

(d) Surface Water Quality and Hydrology

61. Cambodia is also home to the largest lake in Southeast Asia, the Tonle Sap (Great Lake), which connects with the Mekong River in Phnom Penh.

62. The surface water system in the project areas as well as in Siem Reap province can be divided into two sub-systems. North of NR6, there is dominance by the water from the mountains (Teuk Chub), Steungs, lakes and ponds. In the raining season, these sources of water are used for agricultural purposes including rice cultivation, Chamkar (slash and burn agriculture) and plantations, scattered around the houses of local residents. In the dry season, there is very limited water available. According to the field investigations, the surface water quality in the project areas is still good enough for agricultural purposes.

63. South of NR6, the surface water is dominated by the Mekong River (which flows through the Tonle Sap river ecosystem for about 100 km) and other Steung (such as Siem Reap, Rolus, and Chi Kraeng). Around 60% of the Tonle Sap water originates from the Mekong River during flood season, while about 40% comes from its own catchment and 11 Non-Mekong River tributaries. In Siem Reap, the

Tonle Sap enlarges to five times its normal size when the Mekong rises during the monsoon season thus causing the Tonle Sap River to flow northward into the Lake. During the dry season it reverses its flow and goes back into the Mekong River. About of 20% of Mekong Flood water (about 48,000 million cubic meters) can be absorbed by the Tonle Sap Lake. As a result of this, the Tonle Sap Lake is a great resource



for freshwater fish, actually being one of the richest sources in the world.

64. According to the field investigations, the quality of surface water in the project area are still good. In the dry season, pollution by human and household waste can be high near densely populated areas. MOWRAM and her technical department has observed water quality since 1993 through 2015 at two stations Kampon Loung-Pursat province and Phnom Krom- Siem Reap province within the Tonle Sap Basin. The parameters observed included Temperature, pH, Conductivity, Total suspended solids, nitrate, Ammonia-nitrogen, Total phosphorus, dissolved oxygen and chemical oxygen demand (COD). The result of water quality observation at two stations of MOWRAM-water quality indices fluctuates from excellent and good (Between year 2011 to 2015) for human health and aquatic life

(e) .Ground Water

65. In Cambodia, most people living in rural areas prefer to use rain water for their domestic purposes. Surface water is also popular, in spite of its risks to human health. In the area there are a large

number of communal tube-wells that were mostly provided by external agencies. The distribution and depth of the groundwater table in the project area varies considerably. The water table changes with rainfall, specific local geomorphological conditions, and the distance to the permanent water bodies.

66. According to the local communities as well as local residents, the ground water is mainly taken from two types of wells: tube wells and open wells. Ground water is used for washing, cooking as well for consumption. In the project areas, open wells mostly have a good quality for daily used, however water from tube wells/pipe wells sometimes has a red color due to the contaminated by iron (Fe). At other places manganese in the groundwater has concentrations that might cause some consumer inconvenience (e.g. staining of laundry and sanitary ware, taste), though it is not believed to have any negative health effects.

3.1.2 Ecological Resources

(a) Fisheries and Aquatic Biology

67. Data on aquatic animals and plants was not available for the project area. However, according to field observations during the 2010 LEAP Environment Assessment, and the local community, waters in the project area have some commercial fish value for small fish species such as common carp, as well as a high bio-diversity. The floodplain vegetation plays a crucial role in the ecosystem productivity by providing habitats, substrate, and food for aquatic organisms. It should be noted that these organism groups are the most important fish food in lakes and other water courses and natural canals within the project area.

68. Based on local residents, a variety of common fish can be found within the project areas as well as in the natural lakes, Steungs, ponds, canals and swampy areas. Common fish that can be found are given in **Table 3.2**:

Ν	Khmer Name	Scientific Name
1.	Trey Andeng Roeung	Clarias batrachus
2.	Trey Andeng Tun	Clarias meladerma
3.	Trey Chhlonh	Marcognathus siamensis
4.	Trey Ampil Tum	Systomus orphoides
5.	Trey Chhpin	Hypsibarbus malcolmi
6.	Trey Kanhchos	Mystus singaringan
7.	Trey Kantrob	Pristolepis fasciata
8.	Trey Kranh	Anabas testudineus
9.	Trey Sor	
10.	Trey Ross	Snake-head fish
11.	Trey Chang Var	
12.	Trey Kam Pleanh	

Table 3.2: Fish species existing in project areas

Source: Local Community, 2009

(b) Wildlife

69. Due to the low habitat value of the sparse forests, there is little native wildlife within the project area. The local communities have reported that many mammals are hunted by local people for consumption and sale of meat, trophy and for medical purposes. Sometimes tigers are spotted (only short-time) coming mostly from the mountains including: Phnom Kra Horm (Red Mountain), Phnom

Santourse (Santourse Mountain), and Phnom Veang (Veang Mountain) (Mr. Lim Pheng, Chief office of Prevention and Protection of Natural Resources, Provincial Department of Environment and in charge of NRM, Siem Reap, 2009).

70. The mammals that appear in the project area mainly include: wild pigs, muck deer (Indian Muntjac), rabbits and gibbons. There are also some species of reptiles in the project area such as turtles and snakes. According to the official of natural resources management in Siem Reap province project monkeys and gibbons are most frequent in the areas of Beoung Pe and Kulen Promtep. Wild pigs, rabbits, pangolin and other wildlife are constrained to the forest of Kulen Mountain (Mr. Lim Pheng, Chief office of Prevention and Protection of Natural Resources, Provincial Department of Environment and in charge of NRM, Siem Reap, 2009).

71. There is no wildlife and its habitat in targeted Sangkats in Phnom Penh.

(c) Forests

72. There are no inventories on forest resources and community forestry available for the project area, with the exception of data on permanent forest estate (all state owned forestland) which is under responsibility of the Forestry Administration. However according to field observations, local communities and stakeholders, including officials of the natural resources management in Siem Reap province, it seems that most of the tree in the area have been cut for speculation reasons and local residents for planting rice (slash and burning agriculture) in order to support their family. Most of the still existing trees are fruit trees or trees for other production purposes mainly within settlements but also in plantations. The predominant species are mango, banana and coconut scattered over village land and Chamkar areas. There seems to be no other valuable forest (economic value) (Mr. Lim Pheng, Chief office of Prevention and Protection of Natural Resources, Provincial Department of Environment and in charge of NRM, Siem Reap, 2009).

73. Within the project area, the forest resource has been under threat by alteration into agricultural farms (Chamkar) and human settlements and by land speculations (Mr. Lim Pheng, Chief office of Prevention and Protection of Natural Resources, Provincial Department of Environment and in charge of NRM, Siem Reap, 2009).

74. There is no forest covered area in targeted Sangkats in Phnom Penh.

(d) Protected Area

75. In Cambodia, protected conservation areas cover about 5.4 million hectares. There are 7 national parks, 9 wildlife sanctuaries, 3 protected landscape areas, and 3 protected areas. The national parks are located in the coastal zone, the mountains and the plateau and lake region and cover 742,300 million hectares in total. Wildlife sanctuaries in these regions cover 4.138 million hectares. The protected landscapes area covers 97,000 hectares. Archaeological and cultural sites and protected areas cover 403,900 hectares.

76. Angkor Protected Landscape area was established in 1925 and was the first protected area in South East Asia (World Bank, 2003). It covers 10,800 ha. The area surrounds the Angkor Temple complex and is important for its cultural heritage values and forest cover (Ministry of Planning, 2003). Threats to the area include pressures from tourism and the population living and working within the boundaries of the area. JICA (2000) reports a proposal to expand the area to 37,000 ha. The current status of this proposal is unknown. Phnom Kulen National Park is a 37,500 ha National Park established in 1993. The important features of the National Park are its role as the watershed of the Siem Reap River

and as an important archaeological site (Ministry of Planning, 2003). The National Park is located in the Kulen Mountains to the north of Siem Reap town. Threats to the National Park include illegal forestry and poaching of wildlife. **Table 3.3** presents the protected areas in the Siem Reap province:

Protected Area	Province	Total Size (ha)	Characteristics
Angkor Protected Landscape	Siem Reap	10.800	This mainly forested area includes the Angkor temple complex, perhaps the single most important archaeological/ cultural site in southeast Asia.
Phnom Kulen National Park	Siem Reap	37,500	This area is within the watershed of the Siem Reap river. It is also an important archaeological site.
Kulen Promtep Wildlife Sanctuary	Siem Reap 27% Preah Vinar 73%	402,500	The largest area in the protected area system intended to protect the Kouprey. The principal habitats are lowland open dipterocarp forest.
Boeung Per Wildlife Sanctuary	Siem Reap, Kampong Thom, Preah Vihear	242,500	This area is located in the northern plains of <u>Cambodia</u> . It has wild cattle and deer, large water birds and elephants; as well as important archaeological sites. It is the southern end of the Northern Plains Dry Forest Priority Corridor.
Tonle Sap Biosphere Reserve	Siem Reap 50% plus 4 other riparian provinces	316,250	The largest inland freshwater system in southeast Asia. Contains important wetland habitats, flooded forests and is rich in fish and avian species.

Table 3.3: Protected areas/wildlife reserves, Siem Reap and part of province

Source: Statistical yearbook, 2006

77. No protected areas were identified in targeted Sangkats in Phnom Penh.

(e) Endangered Species

78. There is no data on the endangered species in the area, but according to the local residents as well as local communities there are no endangered species within the project area. However, there are some key areas or habitats for rare and endangered species, including Prek Tuol Bio-Sphere Reserve, Boeung Tonle Chmar and Kulen Forest Area (Mr. Lim Pheng, Chief office of Prevention and Protection of Natural Resources, Provincial Department of Environment and in charge of NRM, Siem Reap, 2009).

3.2 Social Analysis

79. As part of the project preparation, a Social Analysis (SA) was conducted with the main objectives to: (i) identify project beneficiaries in urban and rural areas where the project will be implemented; including the presence of vulnerable groups and indigenous communities; (ii) identify how these groups are organized and their preferences to participate during project design and project implementation; and (iii) assess the potential social risks associated with project activities including positive and adverse impacts.

80. Several instruments were drawn upon to comprise a full SA of activities planned under the project in both Siem Reap and Phnom Penh. To inform preparation of the project at the time that it was targeting 50 communes in Siem Reap, and aiming for World Bank approval in 2010, a Social Assessment as well as a Lead Social Development Specialist Report were conducted in late 2009/early 2010 and August 2010/January 2011, respectively. While only a pilot project was implemented in 6 communes, the lessons from this pilot were well documented in project reporting and an impact evaluation was undertaken in 2012 with a specific focus on measuring changes in social capital in treatment villages. Upon reactivation of the preparation process in 2015, the target area was expanded to include Phnom Penh. To understand the unique context of Phnom Penh, an Urban Poor Community Needs Assessment was conducted in 2015. Finally, as a complement to this array of social analysis instruments, community consultations have been reactivated in Siem Reap and expanded to include Phnom Penh. These consultations have provided additional insights into the challenges and opportunities to implementing the proposed activities in Siem Reap and Phnom Penh, highlighting new areas for livelihood support which have since been incorporated into the project design, namely skills development, training and community infrastructure.

81. Siem Reap Social Assessment (2009-2010). The methodology for the SA included a literature review (including relevant legislation and policy), interviews and group meetings with key stakeholders, and in-depth investigations in a selected, target commune (Chob Tatrav), including focus groups, semistructured interviews and household surveys. The SA found that there was a significant need for the improvement of livelihoods of poor households to provide income for the improvement of living conditions. There was interest in SHG formation and it was highlighted that support would be needed for members to successfully raise animals and for vegetable cultivation for consumption and sale. Vulnerable groups such as handicapped, elderly and female-headed households/widows would need additional support to participate in, and benefit from, SHGs. Types of income generation activities identified included paddy rice and farm cultivation; fish raising; animal raising; vegetables and other crops; collect other non-timber forest products such as like resin, rattan, malva nuts, bamboo, etc. For people that live near water sources such as Tonle Sap river, lake and stream, they would prioritize production of Prahouk and Pha Ak, dried fish, etc for selling after fishing season (when fish price increases).

82. Most community members interviewed indicated that they would provide land for livelihood activities, but some had concerns as to potential disputes among members of SHGs and others had very little or no land and would not be able to provide any to group activities. Respondents added that any land donated for SHG activity (i.e. pig raising) must be free of squatters, encroachers or other claims or encumbrances and the land donation of each family had to be recognized by the village and commune authorities, as is normal practice for land donation under the Commune/Sangkat Fund. The SA recommended that the limitation of voluntary land donation of no more than 5% of a household's land applied by the Commune/ Sangkat Fund be applied for LEAP activities. The report also outlined steps to undertake dispute resolution and to address the needs of women and vulnerable groups (i.e. ensuring they are not left out).

83. The report of the Senior Social Development Specialist, conducted from August 2010 to January 2011 included 5 separate reports, including: (a) "*Existing and Defunct SHGs and Activities of NGOs in Pilot Communes*"; (b) "Village Mapping in 50 Target Communes of LEAP"; (c) "Poor HHs and Their Means of Production in Pilot Communes"; (d) "Reviews of Professional Objectives for the Social Development Activities that Reflect the Consistency with the Royal Government Policy", and (e) "Social Accountability and Complaints Handling Mechanism". As a part of this work, a survey was conducted in all 65 villages of 6 pilot communes to get relevant information on infrastructure, poverty, job opportunity, means of production, existing and defunct CBOs and their modes of operation, and activities of NGOs. A Village Mapping of all 50 communes of the LEAP target area was undertaken using district and commune

data in 2010. Information such as legal documents, existing reports, and district and commune data 2010 was used to complement survey data if needed for reports.

84. In this study, the active and defunct CBOs/SHGs in pilot communes, their modes of operation, and the reasons why they are defunct or active were mapped, analysis, and recommendations were made for the usefulness of the project. The report on "Village Mapping for LEAP" gives relevant information for project intervention up to village level, and it also provides a model for data analysis for future intervention. Poor HHs and their means of production including poverty rate and other social aspects were mapped and analyzed and leading to recommendations for each village and opportunities for project interventions in the pilot communes. The RS-Phase II, NSDP 2009-2013 and other relevant policies and strategies were used to reflect on the objective and activity components of LEAP project. Social accountability activities and Complaint Handling Mechanisms (CHM) were drafted based on existing CHMs in Cambodia. The consultant proposed to have two CHMs, one at grassroots level and another one at PMU level.

85. The lessons from pilot project implementation were captured in various project reports as well as a Final Report submitted to the World Bank by RGC in 2012. In addition, an impact evaluation (IE) was conducted in 2012, led by the World Bank's Impact Evaluation team in the Development Research Group. To evaluate a causal effect of the project, the IE randomly sampled 18 villages from 18 randomly selected control communes to match with 18 randomly sampled villages in the 6 pilot communes. The final sample was composed of 548 households (272 control, 276 treated). At the end of each household's enumeration the household survey team gave each household head or primary couple of the household an invitation to a laboratory session on a later day in that village. After the household survey had passed through the village, the second survey team organized these laboratory sessions in the village. 524 of the 548 households participated in these sessions for an attendance rate of 95.6%.

86. The IE found that the project generated significant effects on the behavior it most directly targeted: villagers' savings and their associations in SHGs. Both increased significantly in the treated communities. These effects were particularly profound among the poorest members of those villages as was the intention of the project. The project had no significant impact on the savings on the non-poor in treated communities. There is also some evidence of enhanced livelihoods: respondents in treated communities reported significantly greater production of and income from meat and fish. There were no impacts on other sorts of production or income though. There was no evidence for broader social impacts of the pilot project however. Looking across six sets of indicators of social capital (behavior in the laboratory, a survey of economic networks, a survey of social networks, retrospective self-reported group membership and retrospective self-reported community voluntary activity) the pilot project produced significant increases in only one of these areas-retrospectively self-reported group membership. The authors of the IE report noted that these negative findings on the broader social capital impacts of the program should be no reason for discouragement. The study was conducted less than three years after the pilot program's launch. Given more time, the authors thought that the increased association among the poor in SHGs may produce the hoped-for community-wide gain in social capital.

87. To assess the potential benefits and impact of the project in the additional coverage area of Phnom Penh, an *Urban Poor Community Needs Assessment* was conducted in 15 poor communities that were identified as likely target communities under the project. Both quantitative and qualitative data were collected. Quantitative data such as estimated number of households, number of poor households, community settlement dates, were mainly from secondary sources and through key informant interviews including officials of PPC, Khan Administrators and Sangkat councilors. Relevant data from the secondary sources (for example, MOP/NIS IDPoor reports) were reviewed. A total of 40 officials were covered in the key informant interviews. Primary data were gathered mainly through field investigations in the sample communities. The field investigations allowed for data triangulation and/or updates of

information obtained from secondary sources and/or key informant interviews and collection of data, which were not available from the latter. The field investigations used a combination of data gathering techniques, namely, <u>focus group discussions</u> and physical <u>observation</u>.

88. All together 20 types of infrastructure and services were identified as needed. The most important and common needs for all communities are, in order of importance, drainage system, community internal street networks and community lighting and power line posts. Other needs (e.g., health center, high school, market, police station and security patrol, public transport service, housing credit, mosquito control, connection to PPWSA tap water system, ambulance, language classes, scholarship for child education) relate to specific communities, which are not common for all. Community residents also expressed the need for livelihood skills, and thus would like to get vocational skill training. The skills they need include, in order of rank, motorbike repair; hair-dressing and make-up for wedding function (and wedding event management); car repair; electronic device repair; fashion tailoring; cooking; computer applications; construction; mushroom growing and livestock raising; sewing machine repair; and wielding.

89. Finally, community consultations were conducted in target communes/Sangkats in Siem Reap and Phnom Penh to further vet the findings of the studies conducted, to identify new and emerging issues and to obtain feedback on proposed activities, safeguard provisions and other aspects of project design. A table summarizing the locations, timing and topics of these consultations is included as **Annex 2**. The consultation meetings largely reinforced the demand for livelihood support that emerged from the social analysis and other reports. Additional areas of social risk that had not featured significantly in previous studies included the effect of seasonal migration to Thailand in Siem Reap, costs and other barriers to access better jobs in Phnom Penh and a desire on the part of many women to be able to earn income from home (i.e. offsite sewing for garment factories) to allow more time for child care.

90. Included in the above-mentioned methodologies was an analysis of social context, diversity and gender; an analysis of formal as well as informal institutions in the project areas; including stakeholder analysis; a structured consultation and participation framework and process; and a comprehensive analysis of social risk, both risks potentially emanating from the project and risks to the project from the social context. The Project will primarily benefit the poorest and most vulnerable households in selected communes/Sangkats in Siem Reap and Phnom Penh, in particular, those identified as IDPoor 1 and 2. Support will be provided through Self-Help Groups, producer groups, and agricultural cooperatives, as well as through skills-building and job placement support. Potentially all commune/Sangkat or village households could benefit from infrastructure improvements (i.e. water supply or community road repair), but preference will be given to priorities expressed by poor households, so these households should benefit most.

91. MoI has identified key areas where the project is expected to contribute positively. Indicators will be developed for these key outcomes, and monitoring and supervision will track progress in these areas, disaggregated by social groups and gender.

- 92. These outcomes include:
 - (a) **Social inclusion:** Both project areas in Siem Reap and Phnom Penh, the improved infrastructure is expected to reduce the current situation of marginalization and social exclusion, by providing better access to services, markets, and relationships with other groups.
 - (b) **Empowerment:** The program is based on a demand-driven approach to infrastructure and services. With strengthening both of local communities and communes' abilities to articulate

demand and hold institutions accountable for providing services, along with technical assistance, improved transparency and capacity building at different levels, the project is expected to strengthen empowerment processes in rural and urban areas of Siem Reap and Phnom Penh poorest areas.

(c) *Gender equity:* Provision of basic infrastructure services, particularly in the areas of water and sanitation, has direct and positive benefits particularly for women's working hours and reduction of drudgery. The project will also seek to enhance women's participation in community decision making.

93. The members of SHGs and potentially other households in target communes/Sangkats will benefit from support through producer groups (PGs) and potentially agricultural cooperatives (ACs). Beneficiaries of skills-building and job placement support will largely be from ID Poor households, but all community members will be invited to apply and be accepted based on the satisfaction of ID Poor criteria. An ID Poor score that is above the ID Poor 1 and 2 level may be utilized to allow for inclusion of vulnerable, "near poor" households. Potentially all commune/Sangkat or village households could benefit from infrastructure improvements (i.e. water supply or community road repair), but preference will be given to priorities expressed by poor households, so these households should benefit most.

94. In terms of the selection of beneficiary communes in Siem Reap, the project will cover all communes not covered by the Tonle Sap Poverty Reduction and Smallholder Development (TSSD) Project. In Phnom Penh, target Sangkats would be a combination of the poorest (using ID Poor data) and most vulnerable (highest number of households from urban poor communities), allowing for inclusion of both peri-urban and central-urban districts/khans.

3.2.1 Stakeholder Analysis.

95. Based on the overall analysis of institutional actors, the SA includes a stakeholder analysis. This is not limited to beneficiaries or those directly affected by the project. It also includes groups who may influence the outcome of the project, directly or indirectly. The SA highlights the heterogeneity of actors and interests in different communes/sankas and settings. For each of the stakeholder groups, preliminary data contains a description of the stakeholders and their key characteristics, as well as their interest or stake in the project and their level of influence over outcomes. Some of the broad categories of groups analyzed are (i) communities; (ii) village authorities; (iii) Communes/Sangkats authorities; (iv) Provincial and Municipal government; civil society organizations; (v) private sector; and (vi) others. Each of these categories is broken down into specific actors. For example, among province and municipality level stakeholders.

96. From the stakeholder analysis, the clear conclusion is that the LEAP project is demand driven and enjoys broad support among many different actors. The key risk factor lies with the interface between the community and the project in the form coercion for land donations, transparency and oversight in budget allocations to avoid "elite capture" is therefore essential, and the social safeguards (both the ESMF and RPF) provides guidance on how communities can be assisted in this through access to information on budgets, norms and standards, as well as strengthening of their institutions and mechanisms for social auditing.

97. It is interesting to note from the SA, that civil society organizations are expected to play an active role in the urban component and the rural areas as well. The analysis notes that CSOs are generally in favor of urban poor development. From consultations with the communities themselves, it is however clear that better access to basic infrastructure, markets, education and health services is a cultural change that the communities themselves wholeheartedly support and embrace. In discussions with MoI and PPC

the Bank has explored whether high quality NGOs/CSOs should \ play a role as implementing partners of the project such as local capacity building, contribution to conflict resolution mechanisms, or participation in monitoring or supervision. This is being considered, and may be piloted in selected areas.

3.2.2 Social Risk/Impacts.

98. The SA developed analysis of risks related to the social context. There are various reasons or sources for these risks, including:

- (a) Positive benefits to urban and rural people including poor people, women, and marginalized groups, in the form of improved livelihoods, access to critical infrastructure and services, as well as income generation activities;
- (b) Small pieces of land may need to be acquired for the benefit of communities for income generating purposes such as small grain storage, cattle sheds, as well as basic public infrastructure such as the upgrading of roads, water supply, irrigation and drainage systems); mainly in the form of voluntary land donation;
- (c) Inadequate consultations with vulnerable groups including women and other marginalized groups; and
- (d) Ineffective mechanisms for benefit targeting and information dissemination leading to exclusion of marginalized groups from project benefits.
- 99. A number of institutional risks have also been identified, including:
 - (a) Lack of resources both human and financial.
 - (b) Weak planning, implementation and monitoring
 - (c) Different capacities among different agencies (Urban and Rural)
 - (d) Difficulties in applying environmental and social frameworks
 - (e) Communication problems

100. Overall, risks and opportunities have been very well identified as part of project design and already measures to mitigate risks are included in project components; specifically in Sub-Components 1.1 And 2.1: Building and Strengthening Institutions of the Poor; Component 1.3, Improving Basic Services and Community Infrastructure and Component 2.2, Improving Basic Services and Community Infrastructure.

101. To ensure that the activities financed by SHG and Producer Group members do not pose a significant social or environmental risk, the following screening, implementation and monitoring process will be followed (see Section VII)

3.2.3 Indigenous People Groups.

102. The 2009 National Policy on Indigenous Peoples' Rights recognizes 24 ethnic, indigenous groups in Cambodia. These groups are primarily located in the six northeastern upland provinces of Rattanakiri, Mondulkiri, Stung Treng, Kratie, Preah Vihear, and Kampong Thom. There is only two communes in Siem Reap identified as having ethnic indigenous minorities, the Kuoy indigenous group, located in Srae Noy and Khun Ream communes. This is not one of the project target communes. For Phnom Penh project area, recent information provided by indigenous peoples organization shows that there are individual indigenous families present only in one village in Phnom Penh identified as having indigenous people, the

Pors indigenous group, located in Kean Klaing village, Preak Leap Sangkat, and Chrouy Changvar Khan (see table below); however these families are mixed with other Khmer families and they do not practice any collective attachment to the project area and they do not have any customary cultural, economic, social, or political institutions. For these reasons, the Bank's policy on indigenous peoples (OP 4.10) is not triggered, however the Project will use participatory community informed consultation to ensure access of poor and vulnerable households located in the project area.

103. IP's Preliminary data validation has been conducted by Indigenous Rights Active Member (network group) called IRAM, which has a network of 15 provinces and other indigenous NGO-members including: Highlanders Association (HA), Organization for the Promotion of Kui Culture (OPKC), Yak Loam, Cambodia Indigenous Youth Association (CIYA) and other non-IP organizations including Ponlok Khmai, resulted as of October 2016 as in the below table:

No.	Province/Municipa	No. of	No.	No.	Ethnic Minority/Indigenous
	lity	District	Commune	Village	People
1.	Kosh Kong	1	3	8	Chorng
2.	Kratie	3	18	69	Kouy, Phnong, Khoal, Mil, Kroal,
					Steang, Thmorn
3.	Kompong Thom	5	14	43	Kouy (Ork – Antror)
4.	Kompong Speu	1	2	18	Suoy
5.	Tbong Khmum	1	3	8	Steang
6.	Bantey Means Chey	2	2	5	Kouy
7.	Pailin	1	1	1	Por, Charay, Kroeng, Tumpuon
8.	Battambang	1	2	6	Poar, Kouy, Charay
9.	Porsat	2	4	16	Poar, Chorng
10.	Prey Veng		15	24	n/a
11.	Preah Vihear	6	22	58	Kouy, Poar
12.	Preah Sihanouk		1	1	Sa Och
13.	Phnom Penh		1	1	Pors, but need verification
14.	Mondulkiri	5	21	94	Phnong, Khoal, Mil, Kroal, Steang,
					Thmorn, Charay, Ro Uong, Kroeng,
					Tumpuon, Sa Och
15.	Ratanakiri	9	47	211	Charay, Lun, Kavet, Kachok, Prov,
					Tumpuon, Phnong, Kroeng
16.	Siem Reap	2	2	4	Kouy
17.	Steung Treng	5	14	45	Charay, Lun, Kavet, Prov, Tumpuon,
					Phnong, Kroeng, Ro Ang, Kouy,
					Steang
18.	Oudor Means Chhey	2	3	8	Kouy, Phnong
	Grand Total	46	175	620	

Table: Summary - database of villages/communities with ethnic minorities and indigenous people in Cambodia (October 2016 - preliminary data)

Source of Data: Indigenous People Data - Preliminary Finding, October 2016, IRAM

The below table shown the preliminary data of Indigenous People in Siem Reap and in Phnom Penh:

Code	Province/	District/Khan	Commune/	Village	Ethnic/Indigenous
	Municipal		Sangkat		People

17030202	Siem Reap	Banteav Srey	Khun	Chhouk Sar	Kouy
			Ream		
17140301	Siem Reap	Varin	Srae Nouy	Srae Nouy	Kouy
n/a	Siem Reap	Varin	Srae Nouy	Prey Khnol	Kouy
17140301	Siem Reap	Varin	Srae Nouy	Rolumrun Thmey	Kouy
12100501	Phnom Penh	Chrouy Changvar	Preak Leap	Keam Klaing	Pors (preliminary)

Source of Data: Indigenous People Data - Preliminary Finding, October 2016, IRAM

3.2.4 Population/Demographic Characteristics

(a) Siem Reap

104. The total population is approximately 900,000, which most of them lived in rural areas and 17% to 18% lived in the urban areas. The total amount of households is 136.185, where 13.99% belongs to ID Poor group 1 (19.055 households) and 14.63% to ID Poor group 2 (19.933 households). The population growth in Siem Reap is around 2.6% per annum since last ten years or so, faster than the national average population growth rate of 1.6%. The Province, which is one of the three poorest in the country, has greater intensity of poverty in the northern districts compared to the southern ones. (Source: Siem Reap Province, Livelihood Enhancement & Association of the Poor (LEAP) project, Project Proposal 1st draft, December 10, 2009).

District (2015)	Commune	Village	Total	Poor Le	evel 1 (201	5)	Poo	r Level 2 (2015)	Total	Total
	(2015)	(2015)	HHs in (2015)	HH	People	%	HH	People	%	Poor level 1&2 HH	Poor Level 1&2 %
Angkor Chum	7	84	13224	595	2503	4.5%	1080	4504	8.2%	1675	12.7%
Angkor Thum	4	27	5704	601	2436	10.5%	961	4069	16.8%	1562	27.4%
Banteay Srei	6	41	8868	728	3096	8.2%	1260	5402	14.2%	1988	22.4%
Chi Kraeng	12	152	29440	2482	10302	8.4%	3557	15618	12.1%	6039	20.5%
Kralanh	10	99	13901	376	1395	2.7%	1064	4342	7.7%	1440	10.4%
Puok	14	132	26140	1868	7343	7.1%	3383	14518	12.9%	5251	20.1%
Prasat Bakong	8	57	13475	594	2456	4.4%	1053	4388	7.8%	1647	12.2%
Siem Reab	13	94	32937	1570	7146	4.8%	2898	13771	8.8%	4468	13.6%
Soutr Nikom	10	113	22460	2275	9781	10.1%	3036	13474	13.5%	5311	23.6%
Srei Snam	6	46	7560	351	1494	4.6%	912	3957	12.1%	1263	16.7%
Svay Leu	5	35	7326	469	2016	6.4%	722	3260	9.9%	1191	16.3%
Varin	5	36	8973	652	2887	7.3%	1144	4804	12.7%	1796	20.0%
12	100	916	190008	12561	52855	6.6%	21070	92107	11.1%	33631	17.7%

Table 3.5: IDPoor Data in Siem Reap, 2015

Source: Ministry of Planning, 2016

(b) Phnom Penh.

105. *Migration*. Most population is preponderance of immigrants. As many less developed countries, Cambodia has been increasingly became urbanization. Since 1975, the population was only 10.3% and increased to 15.6% in 1999. In 2011, based on Urban Reclassification conducted by MoP, urbanization rate was 27.1%. This figure increased to 30% in 2015 (ADB: Urbanization study, 2015). The vast majority of migrants are from other parts of the provinces, and the town continues to be overwhelmingly

Khmer, but migrants also come from as far as Phnom Penh to seek work in the town. Phnom Penh alone absorbed roughly 50% of the total rural to urban migrations. The figures reflect several factors: the movement of populations under stress; rural-urban migration, natural growth of urban centers, and municipal/capital boundary expansion. The process is writ large in Siem Reap and no less than 55% of Siem Reap District's population was migrants in 1998, predominantly (74%) from other parts of the Province.

					IDPoor1			IDPoor2		Total Poor	Total Poor			Urban Poor	Communiti	es, 2015	
Khan	Sangkat	Village /Krom		НН	People	%	HH	People	%	Level 1 &2 HH	Level 1&2 HH %	# UPC	# House	# Family	# People	%	Location code
Chamkar Morn	12	95	24,015									9	635	681	2727	2.8%	2, 3, 6
Daun Penh	11	134	15,976									17	838	901	3874	5.6%	1,2,5,6,9
Prampi Makara	8	66	13,388														
Tuol Kork	10	143	26,658									19	2307	2828	10684	10.6%	1,2,3
Dangkor	13	87	17,854	1100	4585	6.2%	1389	6089	7.8%	2489	13.9%	9	977	1047	4832	5.9%	3,4,5,6,11
Mean Chey	7	59	30,984	464	2230	1.5%	590	3237	1.9%	1054	3.4%	28	2118	2283	11147	7.4%	2,3,4,5,6,8,11
Russey Keo	7	30	18,214	466	2118	2.6%	805	4988	4.4%	1271	7.0%	38	2065	2381	10904	13.1%	1,2,3,4,5,6,11
Sen Sok	6	44	23,339	452	2511	1.9%	619	3190	2.7%	1071	4.6%	22	2569	2697	11685	11.6%	1,2,3,6,11
Por Sen Chey	13	163	36,613	702	2801	1.9%	825	4197	2.3%	1527	4.2%	12	1858	2085	7483	5.7%	3,6
Chroy Changvar	5	22	11,766	338	1767	2.9%	1061	3618	9.0%	1399	11.9%	14	871	850	3597	7.2%	3,6,11
Preak Pnov	5	59	10,837	1001	3935	9.2%	760	3510	7.0%	1761	16.2%	10	1470	1498	5794	13.8%	2,3,6,11
Chbar Ampov	8	49	26,489	1707	8056	6.4%	2922	14378	11.0%	4629	17.5%	37	1754	2296	10269	8.7%	3,4,6,10,11
12	105	951	256,133	6230	28003	2.4%	8971	43207	3.5%	15201	5.9%	215	17462	19547	82996	7.6%	

Table 3.6: IDPoor and Urban Poor Community Data in Phnom Penh Capital, 2015

Source: Ministry of Planning on IDPoor, 2016, and PPC on UPC Data, 2015

Location code:

Code 1. Community settle along railway	18 communities
Code 2. Community settle on public road	17 communities
Code 3. Community settle on canal &drainage	24 communities
Code 4. Community settle on river side	28 communities
Code 5. Community settle on public lake	03 communities
Code 6. Community settle on provided land by government	69 communities
Code 7. Community settle on temporary renting land by government	0 communities
Code 8. Community settle on temporary renting land (by private owner)	07 communities
Code 9. Community settle on roof top of the old building	09 communities
Code 10. Community settle on pagoda, crematorium and cemetery	03 communities
Code 11. Community settle on other locations – none of the above code	73 communities
? Community do not tell their Situational Status	09 communities

SECTION IV: POLICY AND REGULATIONS

4.1 National legislations, Regulation and Policies

4.1.1 Introduction

106. Overall management of the environment is under the responsible of the Ministry of Environment (MoE), which was created in 1993. The MoE is responsible for implementation of the Law on Environmental Protection and Natural Resources Management. At the provincial and city levels, there are corresponding provincial/city environment departments. These local departments have the responsibility of enforcing the environmental legislation coming under the competence of the MoE. However, the daily operation functions of these departments would normally be under the direct control of the provincial authorities.

107. The framework law calls for an initial environmental impact assessment (IEIA) or full environmental impact assessment (EIA), depending on type and activity and the site of the project (Sub-Decree on IEIA/EIA process (article 1 and 2 of Sub-Decree of IEIA/EIA process), to be conducted for every private or public project, to be reviewed by the MoE before submission to the Government for a final decision. All proposed and existing activities are to be covered under this requirement. Recently, the Declaration on General Guidance, N 376 BRK.BST, for conducting initial and full environmental impact assessment has been signed and enacted on September 02, 2008 by the Minister of Environment. The goal of the guidance is to implement initial environmental impact assessment (IEIA), full environmental impact assessment (EIA), and to provide general guidelines and checklists. IEIA or EIA is required for every project, depending on type and activity and the site of the project (Sub-Decree on IEIA/EIA process) (article 1 and 2 of Sub-Decree of IEIA/EIA process). The Ministry of Environment is responsible for reviewing the EIA reports, the required follow-up, and monitoring.

108. This Chapter briefly describes the national legislative and policy framework which is relevant to the proposed LEAP project.

4.1.2 Environmental Protection and Natural Resource Management Law

109. The Environmental Protection and Natural Resources Management Law was enacted by the National Assembly and launched by the Preah Reach Kram/NS-RKM-1296/36. It was enacted on November 18, 1996. This law has the following objectives:

- (a) To protect and promote environment quality and public health through prevention, reduction and control of pollution,
- (b) To assess the environmental impacts of all proposed projects prior to the issuance of a decision by the Royal Government,
- (c) To ensure the rational and sustainable conservation, development, management and use of the natural resources of the Kingdom of Cambodia,
- (d) To encourage and provide possibilities for the public to participate in the protection of environment and the management of the natural resources, and
- (e) To suppress any acts that cause harm to the environment.

110. Under this law the developers or project owners need to prepare an IEIA or EIA report for their proposed or existing development projects.

4.1.3 Environmental Impact Assessment Process Sub-Decree

111. The sub-decree No 72 ANRK.BK on Environmental Impact Assessment Process dated 11 August 1999. The key relevant articles are as follows: The main objectives of this sub-decree are:

- (a) To determine an Environmental Impact Assessment (EIA) upon every private and public project or activity, it must be reviewed by the Ministry of Environment (MoE), prior to the submission for a decision from the Royal Government.
- (b) 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.
- (c) Encourage public participation in the implementation of the EIA process and take into account their conceptual input and suggestions for re-consideration prior to the implementation of any project.

4.1.4 Water Pollution Control Sub-Decree

112. The sub-decree No 27 ANRK.BK on Water Pollution Control is dated 6 April 1999. The purpose of this sub-decree is to regulate water pollution control in order to prevent and reduce the water pollution of public water areas so that the protection of human health and the conservation of bio-diversity will be ensured, Article 1.

113. This sub-decree applies to all sources of pollution and all activities that cause pollution of public water areas, Article 2. The sub-decree also gives the pollution types, effluent standards, and water quality standards in different areas. Concerning the project some water quality standard for the public water areas will be applied.

4.1.5 Solid Waste Management Sub-Decree

114. The sub-decree No 36 ANRK.BK on Solid Waste Management is dated 27 April 1999. The purpose of this sub-decree is to regulate solid waste management in a proper technical manner and safe way in order to ensure the protection of human health and the conservation of bio-diversity.

115. This sub-decree applies to all activities related to disposal, storage, collection, transport, recycling, dumping of garbage and hazardous waste.

4.1.6 Air Pollution Control Sub-Decree

The sub-decree N0 42 ANRK.BK on Air Pollution Control and Noise Disturbance dated July 10, 2000. This sub-decree has a purpose to protect the environment quality and public health from air pollutants and noise pollution through monitoring, curb and mitigation activities. This sub-decree applies to all movable sources and immovable sources of air and noise pollution.

4.1.7 National IPM Programme, 1993

116. The Integrated Pest Management (IPM) in Cambodia was established in 1993 after conducting a 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:

(a) to reduce dependence on agricultural chemical, especially pesticides, in agricultural production and to minimize hazards to the human health, animals and environment,

- (b) 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,
- (c) to 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.

117. Under LEAP project, organic farming with no pesticide use will be promoted in particular in Siem Reap in line with MAFF policies aiming at supply organic commodities and products to five stars hotel and restaurant.

4.1.8 Government's Policy, Regulations, and Guidelines on Land Acquisition and Resettlement [see the RPF]

4.1.8.1 National Legal Framework on Compensation.

118. **The 2001 Land Law** states that no person shall be "deprived of his or her ownership unless this action is for the public interest". The law recognizes that deprivation of ownership opens right to "payment of just and fair compensation in advance". The Constitution states that "the right to confiscate possessions from any person shall be exercised only in the public interest" and opens right to just compensation. However, there are currently no laws and regulations that govern the process of acquisition and the determination of just compensation.

119. Those affected by national infrastructure projects such as major roads do receive compensation. Cash compensation is normally provided when houses are impacted. There are local projects such as rural roads where no compensation is provided. This is because all in the local communities are seen as benefiting from the new road. However the relatively new Commune Planning and Investment Guidelines specify safeguard measures for those affected by small infrastructure development.

4.1.8.2 National Legal Framework on State Land Encroachment.

120. **The 2001 Land Law** has drawn a clear line between those who opened land for residential or farming purposes before August 30th, 2001, and those who did so after this date. In the first case, occupants may be recognized as legal occupants of State land in the future when land is registered as State private land. In the second case, occupants are illegal. Article 18 of the Land Law provides strong tools for evicting encroachers. They do not "have the right to claim compensation or reimbursement for expenses paid for the maintenance or management of immovable property that was illegally acquired" (Article 19).

121. **The Expropriation Law** defines the procedures for acquiring private property for the national or public interest.

- (a) Article 2: the law has the following purposes: (a) ensure reasonable and just deprivation of a legal right to ownership of private property; (b) ensure payment of reasonable and just prior compensation; (c) serve the public and national interests; and (d) further development of public physical infrastructure;
- (b) Article 5 provides a list of public physical infrastructures which are larger scale type and include primarily construction or expansion of railroads, roads, bridges, airports, ports; power stations and transmission line; buildings and equipment for postal, telecommunication and information technology systems; irrigation systems, clean water supply systems, sewage systems, and public interest spaces; etc.

- (c) Article 7: Only the state may carry out an expropriation for use in the public and national interest;
- (d) Article 8: The state shall accept the purchase of the remaining part of real property left over from an expropriation at a reasonable and just price at the request of the owner of land/or the holder of rights in the expropriated real property, if he is no longer able to live near the expropriated scheme or build a residence or conduct any business; and
- (e) Article 22: Stipulates the amount of compensation to be paid to the owner of and/or holder of rights in the real property, which is based on the market value of the real property or the replacement cost as of the date of the issuance of the *Prakas⁵* on the expropriation scheme. The market value or the replacement cost shall be determined by an independent commission or agent appointed by the expropriation committee.

122. The Law on Expropriation launched in 2010 provides principles, mechanisms, and procedures of expropriation, and defining fair and just compensation for any construction, rehabilitation, and expansion of public physical infrastructure project for the public and national interests and development of Cambodia. The Expropriation Law which is largely consistent with the main principles of the Bank's Involuntary Resettlement Policy (OP 4.12) will be adopted by the LEAP for any unlikely, but required appropriation of ownership of immovable property or the real right to immovable property of a physical person or legal entity or legal public entity, which includes land, buildings, and cultivated plants, and for construction, for rehabilitation or for expansion of public physical infrastructure that serve the public and national interests.

123. **Sub-Decree No. 115 dated May 26, 2016** on promoting Resettlement Department to General Department of Resettlement provide mandate to GDR to lead all resettlement activities including preparation of resettlement action plan (RAP), implementing and internal monitoring of RAP. However, the Sub-Decree did not mention any role of GDR in preparing and implementing of Resettlement Policy Framework.

124. **Decision No. 001 SSR/NCDD on Promulgating of the Second Revision of the CS Fund Project Implementation (CSF PIM)** dated on 14 January 2009 is for implementing Commune/Sangkat fund projects. The C/S Fund will support local/community infrastructure. A local infrastructure project is a project which creates a durable physical asset that is fixed in one place and can be used by all the people in the local area⁶. Section 2.9 of the CSF PIM provides guidelines for preparing land study reports consisting of voluntary land contribution reports and land acquisition reports if land and/or asset, used or owned by someone, are affected by the local infrastructure development.

125. **A Circular No. 02** issued by the Royal Government of Cambodia on Illegal Occupation of State Land dated February 26, 2007, states that while occupation of land as a form of possession became illegal after August 30th, 2001, there is a need for the state to undertake Social Land Concessions (SLCs) for poor people and disadvantaged groups to meet their needs for land deriving from population growth, demobilization of soldiers, and land loss due to natural disasters. However, the current anarchical illegal taking of state land also provides opportunities for land speculators and powerful persons to take illegal possession of state lands though various means. To address this situation, Circular Number 02 determines that:

⁵ A "Prakas" is a ministerial or intra-ministerial decision signed by the relevant minister(s). A parkas must conform to the Constitution and to the law or sub-decree to which it refers.

⁶The "local area" can mean the whole commune (for example, a road project), or a part of one village (for example, a well) but it cannot mean just one house. The parts of the infrastructure that are used by just one house (for example, the wire connecting one house to the electricity system) should be paid for by the house owner.

- (a) Generally, the illegal state landholders, especially land speculators, are not entitled to compensation (Para 6.1 in Circular No. 02).
- (b) Illegal state landholders, who are poor families and landless or lack land and are disadvantaged, would not be entitled to compensation, but may receive preferential treatment to obtain an appropriate amount of land for their livelihood (Para 6.2 in Circular No. 02).
- (c) For state private land, this can be done through sale, lease, gift, usufruct (right to use and enjoy the fruits of the land for life), social land concessions, economic land concessions, or use permits. A decision on specific options must be based on coordination between the territorial authority, the State Land Trustee Authority, and the person using the land, and be based on a land use plan. (Para 7.1 in Circular No. 02).

4.1.8.3 Consistency between National Legal Framework and World Bank.

126. *Safeguard Policy OP 4.12.* Land acquisition and involuntary resettlement may cause severe longterm hardship and impoverishment unless appropriate mitigating measures are carefully planned and carried out. Land acquisition and involuntary resettlement will be avoided or minimized to the extent possible in the LEAP project, both with regard to the rural and urban development components. The Resettlement Policy Framework, which is a companion to this ESMF in the management of social and environmental risks, establishes equivalence between current Cambodian law and the World Bank's OP 4.12 on Involuntary Resettlement by defining measures to fill the gaps between the national legal framework and OP 4.12.

How is Involuntary Resettlement Defined in the World Bank Safeguard Policy? "Involuntary" resettlement designates not only cases where people may be physically displaced by a project, but also cases where land is taken for project purposes, resulting in people losing access to land or other resources from which they derive their income, or lose a house or other assets.

127. **OP 4.12** (Para 15) does provide for resettlement assistance to "those who have no recognizable legal right or claim to the land they are occupying". In such cases, OP 4.12 does not require compensation for the land itself, but for loss of assets other than land (such as buildings, trees, standing crops), and resettlement assistance may consist of cash, other assets, employment, or land as appropriate. OP 4.12 does not distinguish between poor and rich squatters and encroachers, but accords both the same entitlement to resettlement assistance. Thus, there are two points of inconsistency between the Cambodian legal framework and OP 4.12, which the RPF addresses.

128. The Department of Social Affairs, Veterans and Youth Rehabilitation will cooperate with PLUAC and the District Working Groups to identify the poor at the request of the village chief and Commune Council. Prakas No. 263 includes a format with a methodology to assess incomes.

4.2 World Bank Operational Policies

129. Environmental safeguard policies of the World Bank (WB) are in place to ensure that development projects that receive World Bank support are environmentally sound. Effective application of safeguard policies results in projects that are responsive to local environmental and social imperatives and are consistent with the country's long term development strategy.

130. The World Bank Operational Policies which are relevant for this project are OP 4.01 Environmental Assessment, OP 4.04 Natural Habitats, OP 4.11 Physical Cultural Resources, and Involuntary Resettlement OP 4.12. OP4.01 is an umbrella policy that covers both environmental and social assessment, including the screening of projects and assigning them as Level 1, Level 2, Level 3 and Level 4 (does not have adverse effects, has minimal adverse effects, less significant and significant).

4.2.1 Environmental Assessment (OP 4.01)

131. Potential LEAP activities such as livestock raising, vegetable farming, rice cultivation of which focusing on the organic farming, fishery, home business and small-scale infrastructure (water supply, irrigation system, drainage system, etc.) that may create nuisance such as air/order quality from livestock raising and rice mill, soil erosion, pollution of surface and ground water resulting from both rural and urban intervention. Given the small scale nature of these activities the impacts are minor, temporary, site specific and manageable through project design and construction management techniques included in the Commune/Sangkat Fund's Project Implementation manual, the project is category "B".

4.2.2 Natural Habitats (OP 4.04)

132. It is expected that some of the communities who benefit from the LEAP project live inside or nearby natural habitat such as Ton Le Sap. Minor disturbance and site specific impact may occur during the implementation and operation of subprojects, however, the impact is expected to be minor and site specific and it can be mitigated through the application of ECOP included in this ESMF. The ESMF includes screening procedure to (i) determine whether the proposed facilities are in a critical or non-critical natural habitat and (ii) avoid any significant conversion or degradation of any critical natural habitat.

4.2.3 Physical Cultural Resources (OP 4.11)

The WB OP 4.11 assists countries to avoid or mitigate adverse impacts on physical cultural resources from development projects that it finances. The impacts on physical cultural resources resulting from project activities, including mitigating measures, may not contravene either the borrower's national legislation, or its obligations under relevant international environmental treaties and agreements.

133. LEAP will trigger OP4.11 as a precautionary measure as the project will finance infrastructure investment in Siem Reap, a province of major cultural heritage. As part of the initial social and environmental screening process, sub-project proposals will be screened for any potential impacts on religious or cultural areas to ensure that sub-project design and implementation avoid any such impacts. Under the LEAP pilot project, sub- projects were initiated in close consultation with locals and any areas of potential PCR's were avoided. Additionally there were no chance finds recorded in any project activity. A chance find procedure of physical cultural resources will also be included in civil works contracts. as follows:

- If the Contractor discovers archeological sites, historical sites, remains and objects, including graveyards and/or individual graves during the civil work, the Contractor shall:
- Stop the construction 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; and
- Notify "any cultural heritage" found to the government implementing agency or the relevant provincial Culture Department as early as possible.

• Civil work may resume only after permission is given from the implementing agency or the provincial Culture Department.

4.2.4 Involuntary Resettlement (OP 4.12).

134. According to this policy, involuntary resettlement should be avoided where feasible, or minimized, exploring all viable alternative project designs.

135. Where it is not feasible to avoid resettlement, resettlement activities should be conceived and executed as sustainable development programs, providing sufficient investment resources to enable the persons displaced by the project to share in project benefits. Displaced persons should be meaningfully consulted and should have opportunities to participate in planning and implementing resettlement programs.

136. Displaced persons should be assisted in their efforts to improve their livelihoods and standards of living or at least to restore them, in real terms, to pre-displacement levels or to levels prevailing prior to the beginning of project implementation, whichever is higher

137. The policy covers direct economic and social impacts that both result from Bank-assisted investment projects, and are caused by (a) involuntary taking of land resulting in (i) relocation or loss of shelter; (ii) loss of assets or access to assets; or (iii) loss of income sources or means of livelihood, whether or not the affected persons must move to another location; or (b) the involuntary restriction of access to legally designated parks and protected areas resulting in adverse impacts on the livelihoods of the displaced persons.

138. The policy applies to all components of the project that result in involuntary resettlement, regardless of the source of financing, and to other activities resulting in involuntary resettlement, that in the judgment of the Bank, are (a) directly and significantly related to the Bank-assisted project, (b) necessary to achieve its objectives as set forth in the project documents; and (c) carried out, or planned to be carried out, contemporaneously with the project

139. Screening the program activities and a consideration of the type of future investments planned, besides the requirements of the Bank Safeguard policies, has led to the conclusion that the Bank safeguards policy on Environmental Assessment (OP4.01), Natural Habitats (OP 4.04), Physical Cultural Resources (OP 4.11), Involuntary Resettlement (OP 4.12) should be applied.

140. The ESMF has been designed so that all investments under the LEAP project will comply with the national environmental laws/regulations and the World Bank Safeguard Policies. ESMF reports will include mechanisms to determine and assess future potential environmental impacts of the selected subproject investments. They will then set out mitigation, monitoring and institutional measures to be taken during implementation in order to eliminate adverse environmental impacts, offset them, or reduce them to acceptable levels.

SECTION V: LESSONS LEARNED FROM THE LEAP PILOT PROJECT

141. This ESMF is informed by the analysis conducted under the LEAP pilot phase which was implemented from 2010-2012. In preparation for the pilot project and eventual project expansion, an Environmental Assessment and a Social Assessment were prepared covering the target areas in Siem Reap Province. An Environmental Management Framework (EMF) was developed and applied during the pilot phase and the lessons of implementation are incorporated into this ESMF. As Phnom Penh has been

added as a target project area subsequent to the pilot phase, an Urban Poor Community Needs Assessment was conducted in selected communities in Phnom Penh in 2015 to better understand the needs of target communities and the context for addressing poverty in the urban setting. This Needs Assessment has further informed the design of this ESMF.

142. As the pilot phase of LEAP was only implemented for a limited period from 201-2012 and the activities implemented were limited to the establishment and initial capitalization/financing of self-help groups, the safeguard lessons are of limited application to the proposed project expansion which also includes investments in small-scale infrastructure.

- 143. For the pilot phase, a two-step screening process was applied:
 - (a) <u>Micro-investment planning</u>. Community professionals, and the NGOs assisting the self-help group (SHG) member households to develop micro-investment plans (MIPs), screened the MIPs for possible environmental and social impacts including land acquisition to ensure that the environmental guidelines were followed.
 - (b) <u>Micro Investment Plan (MIP) activity design and implementation</u>. The individual household ensures that the environmental guidelines are followed during activity preparation, including the design of the investment activities to ensure that the proposed measures are taken into account. The community professionals, the NGO and the Provincial PIU staff ensure that the guidelines and the ESMF are followed and complied with by the households.

144. **Lessons learned**: The MIP screening process was applied during the pilot by CPs and NGOs and no activities were proposed that were inconsistent with the environmental guidelines. Proposed activities included vegetable gardening, chicken raising, pig raising and handicrafts. CPs and NGOs also monitored household investments to ensure that the Technical Environmental Guidelines (TEGs), the key design and implementation measures that need to be taken into account at all phases of each activity type (i.e. pig raising or vegetable farming). As the TEGs were brief and easily understandable by participating households, they were followed. Unfortunately, since the pilot project duration was short, some households had difficulty maintaining animal health in the absence of technical support. The proposed phase will address this challenge as it will be implemented over a longer duration and the Ministry of Agriculture, Fisheries and Forestry, will play an integral role in project implementation.

145. As the coverage of LEAP increases, and the commune, district and provincial governments begin to take over some of the activities implemented by the NGOs under the pilot, particularly safeguard screening and monitoring, a significant capacity building effort will be needed. Training will need to be conducted by qualified environmental specialists, early on in project implementation, to ensure that all of the roles defined in this ESMF are well understood and implemented accordingly.

146. Experience with the implementation of the Commune/Sangkat Fund indicates that while there are clear procedures and responsibilities for safeguard monitoring of small-scale community infrastructure sub-projects, this does not take place in a systematic fashion. As such, the LEAP implementing agencies at the national and provincial levels, in particular, will need to review the coverage of social (i.e. land donation) and environmental monitoring efforts and address any insufficient coverage with additional training or resources persons, if needed.

SECTION VI: KEY SOCIAL AND ENVIRONMENTAL IMPACTS

6.1.1 Sub-Component 1.1: Building and Strengthening Institutions of the Rural Poor

147. This subcomponent will finance capacity building for the formation and sustainability of SHGs and Commune-level Federations of SHGs. These activities would not have significant adverse impacts that could not be mitigated through mitigation measures under this ESMF. Seed grants and Community Livelihood Investments Fund (CLIF) grants to Producer Groups and SHGs will be used to finance a range of livelihood activities such as animal raising, vegetable gardening, fishing, handicrafts and others – all done at the individual household level. Their environmental impacts are not expected to be adverse and significant. The impacts, if any, are expected to be benign, temporary and self-contained. These may include mild pollution of surface and ground water from animal wastes and agricultural farm inputs, loss of soil fertility, and odor/smell from animal wastes. Mitigation measures such as biogas unit and organic farming will be promoted to avoid air and water pollution. Introduction of exotic species for backyard culture of fish that may cause biological contamination of endemic and/or local aquatic species will be avoided. The illegal fishing technology/equipment (wrong size of fishing gears or electrical shock) will be prohibited and included in the negative checklist.

6.1.2 Sub-Components 1.2 and 2.1: Increasing Access to Markets and Income Generating Opportunities

148. These two sub-components (rural and urban) will finance two main types of activities: (a) technical assistance to producers on agriculture, livestock, fisheries, handicraft, business management and other small-scale business activities; (b) training and advice aimed at new or improved employment for poor household members. As both of these types of activities are in the form of advice or training, they do not anticipate to pose any adverse environmental and social impact. It will be important, however, that training and advice for producers is consistent with the safeguard policies of the World Bank, in particular, those triggered for this project and taking into an account on the gender sensitive. Women should have the access to the training or information equally men.

6.2 Sub-component 1.3 and 2.2: Improving Basic Services and Community Infrastructure

149. Small-scale infrastructure - These two sub-components (rural and urban) will primarily finance the construction of small-scale community infrastructure through the application of the CSF-PIM which included environmental and social safeguard risk mitigation procedures which have been in use since 2003 and which have been utilized by other development partner investments, including the World Bank-finance Rural Investment and Local Governance Project (RILGP). The types of activities eligible for financing is mostly open, except for a list of "ineligible" activities that ensure compliance with World Bank and Royal Cambodia Government policies. The list of ineligible activities is listed in Annex 3.

150. Beside the positive impacts associated with small-scale community infrastructure, construction and operations of the proposed facilities will have some potential negative socio-environmental impacts and risks. The objects that may be affected by construction or operational activities under LEAP could be:

- (a) Land acquisition
- (b) Planning capacity at commune/sangkat level
- (c) The air environment: dust, noise, odor, vibration
- (d) Water bodies: changes in turbidity, sediment, dissolved and undissolved pollutants coming into water
- (e) Soil, land: erosion and wastewater
- (f) Biological resources: grass/vegetation cover, shrubs, trees, plants, animals, forest, etc.
- (g) Landscape, topography: slope, hills
- (h) Cultural objects, structures such as monuments, statues, graves, artefacts, sacred trees, temples, church, etc.
- (i) Existing facilities at the site, such as roads, water supply, drains, etc.

(j) etc.

Table 6.1: Potential negative impacts of Sub-Components 1.3 & 2.2 on infrastructure services

	Potential Impacts/ Risks	Description of the issues/risks	Typical activities that cause the potential impacts/risks
CO	NSTRUCTION PHASE		
1.	Damages or loss of vegetation cover and trees	Vegetation cover and/or trees at the construction site (road, drainage system, etc.) or any other location to be used by the Project may be removed or disturbed during construction phase. This impact can be avoided, minimized or mitigated.	 site clearance for construction site, camps, construction material exploitation and/or storage
2.	Loss or degradation of valuable natural/ ecological resources	 If sand, gravel and stones from river bed is extracted, flowing pattern of river may be seriously affected. The river may scour around bridge piers and abutments and endanger their stability. The river may erode other sections of the river beds and banks and thereby cause serious problems elsewhere Some sites may be very important to local communities in cultural/religious/ historical/archaeological aspects. If construction takes place at or nearby such sensitive socio-environmental features, threats or serious/ permanent damages may be caused to such sites. Human access to undisturbed area may cause damages to (from plant collection/removal, wildlife catching, hunting, fire setting, littering, etc.) damage to vegetation cover as habitats of wildlife or cause fire risks. 	 Site clearance Construction Extraction natural resource for construction materials at important sites particularly gravel from river beds, etc.
3.	Degrade existing landscape	This impacts may occur when vegetation cover/top soil is removed, or a man-made structures are introduced into least disturbed nature, or when new structures obstruct view to existing beautiful landscape	 Site clearance Construction of new facilities in areas with beautiful/valuable landscape
4.	Land acquisition	Small amounts of land may need to be acquired either by donation or through compensation for agriculture, livestock and fisheries activities as well as small-scale productive infrastructure (e.g. post-harvest processing equipment, storage facilities and poultry shed, etc.).	 Presence of contractor at the work site Construction commencement or ongoing activity
5.	Physical Cultural Resources are present at a sub-project location	During the planning or construction of a sub-project, physical, cultural, and religious resources are identified	• site clearance for construction site, camps, construction material exploitation and/or storage
6.	Solid Waste generation	Excavation works generate waste Waste is also be generated from unused materials: timber/glass/metal, packaging materials or by the workers: lunch containers,	 Excavation Construction Workers daily domestic

	Potential Impacts/ Risks	Description of the issues/risks	Typical activities that cause the potential impacts/risks
		leftover food, etc.	activities
7.	Wastewater generation	 Wastewater generated by workers from washing and toileting. Uncontrolled generation of wastewater may cause environmental pollution, nuisance, and health concerns to workers and the public 	 Excavation Use of construction materials Workers domestic activities at the sites
8.	Chemicals, hazardous wastes generation	Used Oil, paints, lubricant, batteries, and asbestos-containing materials are toxic. Some of the solid waste may be cross- contaminated with oil, paints, etc. that may be toxic and pose public health risk	 Site clearance Vehicle maintenance Painting
9.	Dust, air pollution	Exposure to high level of dust and smoke may have health impact: affect respiratory system, eyes	 Site clearance Excavation Running engine Machinery Construction material loading and unloading
10.	Noise and Vibration	Noise disturb hearing/listening activities and may cause stress/headaches Vibration may cause cracks /damages to existing structures	Pile drivingSoil compaction
11.	Increased erosion risks/siltation/ sedimentation	 Slope become less stable when ground surface is disturbed; water can run faster and can erode the soil on bare slop where vegetation cover does not exist. Therefore, erosion, land slide risks would be increase if a building is located on a hilly slope or construction activities disturb slops. The eroded top soil will ends up at downslope then being wash down further by rain water causing highly turbid water and river bed/stream siltation/sedimentation 	 Site clearance excavation activities create unsealed/barren area without vegetation cover during and after construction Construction works carried out on steep and/or weak slops
12.	Water quality degradation	 Waste and wastewater, construction materials from construction may be leaked or disposed of into water sources nearby construction sites or downstream of construction sites. Water quality in streams and rivers may also be degraded if soil from slopes in the catchment run into water bodies due to erosion/landslide initiated by earthworks at the sites. Careless water use activities by workers, for example washing working tools directly at water sources. Oil, fuel or any other liquid substance used during construction, including on-site machinery maintenance, may be leaked or spilled into the soil. Then rainwater may wash such contaminant to nearby water bodies 	 Construction of bridges on streams, river beds Construction waste and waste water discharge Tools and machinery washing and maintenance

	Potential Impacts/ Risks	Description of the issues/risks	Typical activities that cause the potential impacts/risks
13.	Impacts Cultural sites such as church, historical site, grave yard, etc.	Cultural sites may be affected with dust, noise from material and waste loading/disposals Some artefacts may expose during execution of earthworks at the sites	 Dust and noise generated activities Loading/unloading construction materials and wastes
14.	Social disturbance to local community: ✓ traffic/ transportation ✓ water supply ✓ irrigation ✓ farming ✓ - Community meetings events/ etc.	 If the works are carried out on or near existing road or drainage system, construction activities may disturb or disrupt traffic on the existing roads. Excavation may also cause loss to vegetation cover or disturbance to the ground Excavation works may disrupt the operations thus the services provided by local existing facilities such as water supply, drainage, power supply etc. if the pipes/lines cross excavated areas Stockpiles formed from excavated materials If construction activities takes place near farming area, access to farm land may be interrupted; materials, waste, and wastewater from construction sites may enter farms causing productivity reduction and social conflicts If a construction site is located near community center, material loads or noise from material cutting, drilling, welding, may block access to community centers or disturb hearings in public meetings. 	 Site clearance Excavation Machinery operation Temporary blockage of rivers/streams/ existing irrigation canal for construction Temporary block of road for construction of connection section to new alignment
15.	Health/ sanitation /hygiene in local community	 Stagnant water formed from disturbed area at construction site is favor for mosquito breeding, which is a vector of water-borne diseases Waste generated from workers staying at the site may attract vermin and insects Wastewater generation may cause nuisance and health risks to human 	Excavation create holes or low laying spots
16.	Safety risk to community	Construction-related activities may cause safety risks for local community, particularly children if they access to open holes or present at the site during materials transports/loading/unloading.	 Transportation of materials/wastes Materials loading/unloading Excavated holes Machinery operations
17.	Workers health and safety	• Unprotected holes at the sites, exposure to traffic at road side, improperly installed electrical wires, operating and handling of construction plants, machinery and tools may cause safety risks to workers	General construction activities, operations of tools and plants

	Potential Impacts/ Risks	Description of the issues/risks	Typical activities that cause the potential impacts/risks
1.	Water/soil pollution	Leakage or discharge of wastes and wastewater generated from the facilities provided	Water use activities taking place at buildings/ shelters
2.	Water/soil pollution	 Effluent from septic tank can pollute groundwater or surface water, particularly if piped to an open drain Partly treated effluent from septic tank can easily pollute the groundwater in the dug well, even after many years; Polluted surface water from around the septic tank may percolate into the groundwater 	Sanitation facility
3.	Visual impacts	if the facility outstand in public area and degrade the surrounding landscape value	Sanitation/ drainage facilities
4.	Nuisance, odor, Unhygienic condition, public health risks	 Septic tank effluent is smelly thus may cause nuisance to the public when being felt/seen Septic tank effluent is only partially treated thus can spread infection and disease thus pose health risk. Lack of proper drain around public taps create muddy mess around the tap or in the yard. Standing water become mosquito breeding ground and cause inconvenience for water users Open or missing facet can spill a lot of water in a day. Valuable water that other users may need is wasted 	Sanitation
6.	Unhygienic condition, public health risks	Muddy condition/siltation at public tap lead to unhygienic conditions and/or mosquitoes breeding	Water supply
7.	Conflict with downstream water demands	When inflow water is partly stored at upstream of a water source by one group of water users, other groups may have less access to the water they need and that may need to social conflict between different community groups.	Water supply
8.	Weather extreme events/natural disasters such as storms.	 Weather extreme events or natural disasters can damage the facilities provided by the project or interrupt the services provided by these facilities. In some cases, weather extreme events such as cyclones may not directly cause damages to the facilities but damages the objects in the surroundings and these objects cause damages to the facilities provided by the Project, for example tree fallings into water towers 	Torrential rain

151. The impacts and risks associated with Components 1 and 2 will be addressed through the procedures described in Section VII.

SECTION VII: PRINCIPLES AND PROCEDURES TO ASSESS AND MITIGATE IMPACT UNDER THE LEAP PROJECT

152. The principles and procedures of this ESMF are to assess, identify and mitigate potential adverse social and environmental impacts, and are aligned with the Commune/Sangkat Fund Project Implementation Manual (CSF PIM). The CSF-PIM is available in English and Khmer on the NCDD website at http://ncdd.gov.kh/en/resources/manual/finish/50-2009/237-commune-sangkat-fund-project-implementation-manual-pim. This LEAP ESMF is also adapted from the environmental and social safeguard framework implemented under Tonle Sap Poverty Reduction and Smallholder Development Project under the leap project (TSSD), which is assisted by ADB and has similar livelihood and community infrastructure services in Siem Reap, but in different communes. The TSSD safeguard documents are available on ADB website or at https://www.adb.org/projects/documents/tonle-sap-poverty-reduction-and-smallholder-development-project-pp. This ESMF makes clear reference to the specific guidelines and forms that are borrowed from or updated based on the Commune/Sangkat Fund Project Implementation Manual. This is the approach that has been used by other Multilateral Development Bank-financed Commune/Sangkat development investments including the TSSD project.

153. There are two different procedures to respectively assess and manage the potential adverse impacts of livelihood investments under Sub-component 1.1 and infrastructure services under Sub-components 1.3 and 2.2. Each procedure and steps are described in the next sub-sections.

7.1 Procedure for Assessing and Mitigating the Risks of Activities Implemented under Sub-Component 1.1 on livelihood improvements

154. As described in the previous section, the types of activities likely to be implemented by SHG and Producer Group members, via their Micro-investment Plans (MIPs) under sub-component 1.1 include animal raising, vegetable farming, rice cultivation, fishing and handicrafts.

155. To ensure that the activities financed by SHG and Producer Group members do not pose a significant social or environmental risk, the following screening, implementation and monitoring process will be followed:

- **7.1.1 Step 1** The Micro-Investment Plans (MIPs) produced by each SHG will be screened by the Commune Council before recommending the MIPs to the Provincial SMT for seed grant financing to ensure that plans are in accordance with the Technical Environmental Guidelines (TEGs) and the screening form for voluntary land donation protocols (from the RPF) is applied below.
- **7.1.2** Step 2 The MIPs and CLIF proposals recommended by the Commune Council for seed grant of CLIF financing will be reviewed by properly trained social and environmental safeguard specialists at the provincial level to ensure that TEGs and land acquisition procedures are followed as per RPF.
- **7.1.3** Step 3 Occasional safeguard spot checks by the provincial safeguard specialists on a periodic basis to ensure that MIP and CLIF activities are being implemented in accordance with TEGs and RPF and are not generating any new and significant social or environmental risks.

7.1.4 Technical Environmental Guidelines.

156. The technical environmental guidelines (TEGs) list the key design and implementation measures that need to be taken into account at all phases of each MIP and CLIF activities. The guidelines are based

on the typical activities that were implemented during the pilot LEAP operation and subsequently proposed by local communities during project preparation. Additional guidelines will be created for new types of activities as they emerge during implementation, and included into this ESMF and relevant implementation and training documents.

7.1.5 Guidelines for the animal raising sub-projects (cow and pig farming, poultry raising)

- (a) The design of any animal raising sub-project should ensure proper management of animal wastes to ensure no contamination of nearby surface water bodies, ground water sources and to avoid complaints from communities from foul smell,
- (b) For pig raising, the construction of septic tank or small biogas digester to manage pig wastes may be considered. The biogas digester will convert methane into fuel for household cooking to replace the use of fuel wood,
- (c) For chicken raising, chicken dung may be collected and used as natural fertilizer in vegetable gardens and farms or used in compost as enhancer to speed up the composting/decomposition process,
- (d) For cattle raising, wastes may also be used as organic fertilizer or as compost enhancer or feed into biogas digester for cooking gas,
- (e) Pigs must be put in a pig pen and not allowed to roam freely and adequate sanitation should be maintained at all time,
- (f) If possible, the pig pen should be located in area far away from houses/settlements

7.1.6 Guidelines for fish farming sub-project

- (a) The use of local/endemic species should be favored in lieu of introduce exotic species,
- (b) Should exotic species be introduced, the design should ensure proper containment of introduce species through the use of safe enclosures so as to not allow the exotic species to escape into open water bodies that may cause biological contamination,
- (c) Supplemental feeding using formulated feeds should ensure that enrichment/eutrophication of water bodies will be minimized, if not avoided. This can be done by maximizing primary production (phytoplankton and zooplankton) as the natural source of food for the cultured fish and limiting the use of formulated fish,

7.1.7 Guidelines for vegetable cultivation

- (a) Use of organic fertilizers such as compost should be encouraged over the use of chemical fertilizers,
- (b) Use of chemical pesticides should also be discouraged and promote cultural, environmental friendly, biological, etc.,
- (c) The use of integrated pest management, which is already adopted in some areas in Cambodia, should be promoted and supported,
- (d) Multiple and intercropping are encouraged over mono-cultural practices,

7.1.8 Guidelines for rice farming

- (a) Promote and encourage the adoption of integrated pest management to manage pest problems,
- (b) Promote organic farming

7.2 Procedure for assessing and mitigating the risks of infrastructure services under Subcomponents 1.3 and 2.2

157. The small-scale community infrastructure sub-projects implemented under sub-components 1.3 and 2.2 will follow the procedures outlined in the 2009 edition of the Commune/Sangkat Fund PIM. As such that PIM can be used as a reference for implementation. The sections below summarize the social and environmental safeguard provisions in the CSF PIM and the forms that are adapted for the application of these safeguard provisions are included as annexes to this ESMF and the RPF.

7.2.1 Step 1: Safeguards Screening (Form 1 in Annex 4)

158. During the implementation stage, the commune/sangkat council will follow the non-eligibility Checklist below.

159. The Safeguards Screening will be required for each sub-project investment by using the Form 1 (in Annex 3). If the Safeguards Screening reports no adverse environmental and social impacts, no further action such as environmental analysis is required. However, a standardized clause of environmental, health and safety requirements "will be included in the livelihood or infrastructure contract.

160. If the Safeguards Screening confirms some adverse environmental and social risks or impacts, this ESMF will refer to the CSF-PIM for the commune/sangkat council to proceed to the next four steps as they relate to environmental risks⁷:

7.2.2 Step 2: Environmental Mapping (Form 2 in Annex 4)

161. This environmental mapping will show the project area, identify and plot areas, structures and other environmentally important life support systems/features that may be adversely and/or positively affected by the development. The map should show the village area where the project will be located and should also indicate adjacent villages and/or areas bordering the project village. Among the critical information to be plotted on the map are the following:

- (a) Topography: Steep slope, slight slope or flat land, with direction of slope;
- (b) Soil types: that be easily eroded, slightly eroded or not easily eroded;
- (c) Vegetation and land use, especially wetlands and forest areas;
- (d) Important cultural sites;
- (e) Access routes to the site;
- (f) Water courses;
- (g) Extents of seasonal inundation;
- (h) Areas of human habitation and type of domestic water supply;
- (i) National and Provincial protected areas;
- (j) Biodiversity conservation areas issued by Ministry of Environment

7.2.3 Step 3: Analysis of the Environmental Impact (Form 3 of Annex 4)

162. The Environmental Impacts Analysis is a checklist of common types of environmental impact caused by the implementation of C/S Projects. A checklist of common types of environmental impacts divides into types; a long term environmental impacts and short term environmental impacts.

⁷ These steps follow the environmental safeguard procedure in the CSF PIM, which has been applied under the ADB-funded TSSD and the World Bank-funded RILGP and LASED projects. Steps to manage related to land acquisition are specified in the Resettlement Policy Framework, including references to the appropriate forms from the CSF PIM to be utilized.

163. For each problem identified on the checklist, the Project staff will explain the meaning to the local people and agree with them if this problem is likely to occur. Similarly, each problem identified on the checklist will be classified as "Large Impact," "Medium Impact," or "Small Impact or "No Impact". Large and medium impact implies that the problem is serious enough to require that some changes must be made in the sub-project, to overcome the problem.

164. For problems that are marked as "Large Impact," or "Medium Impact," the sites where these problems will occur should be marked on the map. Each site should be labelled with a letter. For example, where damage will be caused by excavating soil at Site A and Site B these will be labelled correspondingly on the map and the form.

165. While conducting the environmental impacts analysis, the Project staff and the local people should consider and make a judgment on the scales of environmental impact. If the implementation of the sub-project has the potential to cause large impacts, then the sub-project needs to be reconsidered and a decision made as to whether it should be cancelled and/or at least substantially redesigned. If the implementation of the project has the potential to cause medium impacts these may often be remedied with design changes and or other preventive measures in the Environmental Management Plan. If the implementation of the sub-project will have only small impacts, these sub-projects can be implemented with the environmental management activities described in contractor's or service provider's work plan and Environment Management Plan (EMP).

7.2.4 Step 4: Preparation of an Environmental Management Plan (Form 4 of Annex 4)

166. The EMP will show Potential Impacts on environment and what changes to the sub-project are recommended to reduce the bad impacts on the environment. Form 3 and 4 in Annex 3 will be used as a Checklist to identify potential impacts and mitigation measures

167. All the problems shown as having a "Large and Medium impact" should be listed on the EMP together with a series of recommended mitigation measures. The recommendations should be divided into:

- (a) Changes in the sub-project design (for example, changing the place for a bridge);
- (b) Changes in the way the sub-project is implemented (for example, show which access road the contractor must use to bring materials and equipment to the site); and
- (c) Changes in the way the sub-project is operated and maintained (for example, opening water gates slowly to reduce erosion).

168. Changes in the way the sub-project is implemented should be included in the Contractor or Service Provider's Work plan before the contractor or service provider starts work. For each recommendation, the cost of implementing the recommendation should be estimated together with any operational costs that will occur. The person responsible for implementing the recommendations should also be recorded.

169. For each problem, the severity of the problem should be described if the recommendation is implemented (large impact, medium impact, small or no impact) together with any other comments. The EMPs should be discussed with the local people who will be affected by the project before they are endorsed to the C/S Chief for approval.

170. The final section of the form is for the Project staff responsible for the analysis to make a summary of the findings and to make his recommendation. There are four recommendations that can be made:

- (a) The project will not have any unacceptable big or medium impacts on the environment;
- (b) The project will have medium environmental impact, but this impact is mitigated through the implementation of environmental management plan (EMP).
- (c) The project design should be changed to avoid unacceptable big or medium impact on the environment;
- (d) The project should not be implemented, because the impact on the environment will be bigger than the benefit from the project.

171. After the environmental impacts analysis report has been completed done project staff must sign the Environmental Analysis Report and submit the completed form to the Sub-Management Teams (TSMs) for the rural component in Siem Reap and for the urban component in Phnom Penh. Sub-Management Teams who will check that it has been completed correctly and then submit to the Provincial Department of Environment for Technical Clearance and make a copy of the report for the *C/S* Chief. The process for Technical Clearance of the Environmental Analysis will be the same as for the Project Information and the provincial Department of the Environment has the right to object within **15 days** after they receive the Environmental Analysis.

172. If Provincial Department of the Environment wishes to object, they must inform the Sub-Management Teams who will also inform the commune. If there is no objection within **15 days**, the subproject is automatically technically cleared and the *CS* Chief may begin the process of procurement.

173. For sub-projects that are located in communes which are on the Environmental Watch List, the Sub-Management Teams must send the Environment Analysis Report and Environmental Management Plan (if required), in electronic copy to the Safeguards Working Group of NCDD Secretariat for prior checking before submitting these reports to the Provincial Department of Environmental for technical clearance. The Safeguards Working Group of NCDD Secretariat has **10 working days** to check after receiving the Environment Analysis Report and EMP. If the review finds that the Environment Analysis Report and EMP have some mistakes that need to be corrected or there is missing information that needs to be added, the Safeguards Working Group of NCDD Secretariat must inform the Sub-Management Teams by e-mail within **10 working days**. The sub-project cannot be sent to the concerned provincial Line Departments for technical clearance until the no-objection clearance is provided by the Safeguards Working Group of NCDD Secretariat.

7.2.5 Step 5: Preparation of Environmental Monitoring Plan (Form 5 in Annex 4)

174. The final stage of the Environmental Analysis report is the Environmental Monitoring Plan. There are two kinds of monitoring that can be done:

- (a) Monitor compliance of the project owner and the contractor with the recommendations of the EA report;
- (b) Monitor the actual effects on the environment.

175. The official responsible for the Environmental Analysis should monitor the implementation of the recommendations and report to Sub-Management Teams on this.

176. The C/S Chief should arrange for monitoring of the impact of the project on the environment. The Monitoring Plan shows how this will be done. The Monitoring Plan shows:

- (a) What is to be monitored: For example, "dust from traffic," "water quality," etc.
- (b) **Where** to monitor;
- (c) **How** to monitor: For some kinds of problem it may be possible to make actual measurements (for example, the maximum depth of flooding at a particular location. However, for other kinds of problem, for example dust in the air, we can only measure by asking the people affected, for example, "worse than before/the same as before/better than before.)
- (d) When to monitor: For example, "one time per month," "every day during construction," etc.
- (e) Who will monitor: Who will be responsible to carry out the monitoring work?

SECTION VIII: INSTITUTIONAL ARRANGEMENTS

177. The organizational structure of the project will involve Government oversight by a Project Coordination Office (PCO) located in the Ministry of Interior (MOI) under the General Secretariat of the MOI. The PCO will facilitate reporting and ensure effective internal and external communications. Two Sub-Management Teams (SMTs) located at Siem Reap Province and at Phnom Penh Capital Hall will be responsible for all operations within each province/municipality with the support of local government, district/khan and commune/sangkat level professionals including social and environmental safeguards specialists and facilitators. Due to the predominance of agriculture and fishery-based livelihoods in rural areas, the Ministry of Agriculture, Forestry and Fisheries (MAFF) will have a specified role as a project implementation agency, providing technical assistance to specified SHG, producer groups and ACs, at the request of the SMTs.

178. The Ministry of Interior, in particular the National Committee for Subnational Democratic Decentralization Secretariat (NCDDS), which it hosts, has experience in safeguards implementation. However, the MOI staff need further support in the procedures for monitoring and recording environment and social safeguard activity. Staff of other implementing agencies also need continued support, specifically during the first year of implementation. Table 8.1 describes the administrative responsibilities which are established in accordance with the LEAP project implementation manual (PIM) and World Bank project appraisal document (PAD).

	Agency	Safeguard Responsibilities
National Level	Ministry of Interior (MOI)	 Overall supervision and coordination responsibilities regarding the implementation, monitoring and compiling of safeguard reports and compliance with World Bank and government policies. The overall management and operation of the project would be led by the Project Coordination Office (PCO) under the General Secretariat of the MoI. The PCO would be headed by a Project Manager and composed of a team of specialists responsible for project operations including social and environmental safeguards. The existing Safeguards Working Group, at the National Committee for the Sub-National Democratic Development (NCDD) of MoI, would be responsible for the review and confirmation of the livelihood and infrastructure environmental screening undertaken at the commune/Sangkat and provincial levels based on the Environment Watch-list.

Table 8.1: Environmental and Social Safeguard Institutional Arrangements

	MAFF	 Provide technical assistance to SHG, producer groups and ACs at the request of Sub-Management Teams (TSMs). Will manage policy formulation, ensure Project activities are consistent with national agricultural policies and guidelines (i.e. integrated pest management), and provide technical backstopping to province and district agricultural officers to support effective delivery of agricultural services to improve productivity and ensure environmental sustainability.
Sub-National Level	Siem Reap Provincial Administration and Phnom Penh Capital (Sub- Management Teams (SMTs)	 Consolidate the environmental safeguard reports from communes/sangkats and district teams Send the consolidated environmental report to national level (Ministry of Interior and MAFF) quarterly for integration into the project narrative report and submit to the World Bank. Provide technical support for Commune/Sangkat Councils in carrying out environmental safeguards screening and environmental analysis if necessary Monitor and take measures for negative impacts during operation Appoint staff with specific responsibility for environmental and social safeguards, and they will be assisted by the project Environment Coordinator or trained NGOs.
	District Administration Commune/Sangkat councils	 In line with the government policy to strengthen roles and responsibilities of the District Administration, a team of full-time District/Khan Facilitators (DFs) would be contracted by each SMT to facilitate and supervise implementation of village and commune level activities including social and environmental safeguards. Conduct a preliminary environmental screening in accordance with the environmental assessment guidelines in the CSF PIM to classify the environmental categories for the identified subprojects; develop environmental management plans if necessary; Ensure environmental requirements are incorporated in the detail design prior to technical clearance Monitor environmental impacts during construction and report any negative impacts to DOE and PMU. Monitor and manage overall negative impacts during operation
		• Orient the contractors and <i>SHG level</i> about the environmental clauses to be included in the bidding and contract. Commune/Sangkat councils will receive support from the Environment Coordinator (EC) or assigned safeguard officer and district technical service officer (TSO)
Others (NGO and Private Sector)	Environment Coordinator (EC) or NGO Construction contractors	 Overall responsible for providing training on basic environmental safeguards and procedure to sub-national staff and the implementation of the ESMF, especially during the first year implementation. Implementation of environment clauses including those elements of the ESMF which will be identified in their respective contracts

179. As indicated in the table above, implementation of this will involve responsibilities of key stakeholders at the National, Provincial, Commune, PG, SHG and household levels:

180. *Household level*: The households with the assistance from community professionals and NGOs will ensure that micro-investment planning and project design and preparation will address environmental impacts, if any, by adhering to the specific sub-project guidelines outlined in the ESMF.

181. *SHG level:* Micro Investment Project proposals, developed at household level, will be presented, as part of the Technical Clearance process, to the SHG for sharing and screening. The SHG will assert the compliance with the environmental guidelines outlined in the ESMF.

182. *Producer Group level*: The PG will provide advice to its members with regards to Micro Investment Project development, including compliance with ESMF. For their own Economic Infrastructure sub-projects the PG will also follow the ESMF.

183. *Commune/Sangkat level:* Commune/sangkat Councils will be closely involved and informed about sub-project initiatives supported by LEAP. SHG and PG will participate in the yearly Commune/Sangkat Investment Planning process and register their sub-projects with the Commune/Sangkat Councils. The SHGs or higher level institutions of the poor, with assistance from community professionals and NGOs will ensure that all communal sub-projects and/or the cumulative impacts of the individual sub-projects at the household, PG and/or SHG levels are properly addressed.

184. **Provincial/Municipal level:** Provincial Sub-Management Teams (SMTs) would be established for Siem Reap Province in the Planning and Investment Division (PID) and for Phnom Penh Capital City in the Urban Poor Community Development Unit. Project Managers would be appointed to head the SMTs in Siem Reap Province and at Phnom Penh Capital City. The Sub-Management Teams would include technical support officers from relevant line departments drawn from various parts of the provincial administration. They would also include an environmental and social safeguard focal point. The project manager or a designated technical or safeguard officer will ensure that the ESMF is adhered to and complied with by the households and SHG/PG and enforced by the NGOs and community professionals. The project manager or a designated safeguard officer will also monitor and report on progress on the ESMF implementation. The SMTs will inform or involve the Department of Environment on the project's status in monitoring environmental mitigation measures (e.g. through its annual review report).

185. *National level*: The project director in MOI, in collaboration with his/her designated project technical advisor, will be ultimately responsible for ensuring the adherence to the ESMF during project implementation. Ongoing revisions to the ESMF are encouraged to address the lessons learnt during sub-project design and implementation and to reflect the spread and variety of sub-projects as they emerge. The Safeguards Working Group of the National Committee for Sub-National Democratic Development (NCDD), Ministry of Interior (MOI), maintains a list of communes/sangkats on an Environment Watch-List: communes/sangkats that are located in wetland areas and other protected areas which are sensitive to impact on the environment. For sub-projects proposed in these communes/sangkats and that require an Environmental Analysis resulting from the safeguard screening results (See Form 1 in Annex 4), the Safeguards Working Group, will review the safeguard screening and environmental analysis reports done at the commune and provincial level to confirm the potential for environmental impacts and the requirement to address those potential impacts.

186. NGOs will play an important role to facilitate sub-project proposal preparation and consultation process. Capacity building and safeguard training will be provided to NGOs to ensure that environmental and social impact are addressed in the sub-project screening and proposal preparation. Construction

contractors will follow the environment clauses including those elements of the ESMF which will be identified in their respective contracts.

8.1 Capacity Building and Training

187. Training on environmental and social safeguards procedures including environmental and social risk mitigation measures will be provided to the project staff as part of the sub-project investment planning and sub-project preparation processes. In this regard, the SMTs or project director will arrange with the Ministry/Department of Environment and the Environmental Coordinator or the designated technical officer or safeguard officer to provide environmental safeguards training sessions to the key project staff. The project director should ensure that the designated technical officer or safeguard officer (in collaboration with the project technical advisor, if any) will train community professionals and NGOs to ensure that the knowledge they gained are imparted to the households. LEAP project has set aside US\$ 12,000 for a safeguard officer or NGO to provide hands-on safeguards training and support to the sub-national staff in Siem Reap and Phnom Penh, especially during the first year of implementation.

SECTION IX: PUBLIC CONSULTATIONS, INFORMATION DISCLOSURE AND GRIEVANCE REDRESS MECHANISM

9.1 Public Consultations, Information Disclosure

188. Consultations were undertaken at the Provincial level and more intensively at the Commune/Sangkat level to elicit issues and concerns that community members may have in relation to the project. Commune/Sangkat consultations on the overall project design and related risks and safeguard provisions were conducted in August 2016. During these consultations, the provincial, line agency officials, women's group representatives, Commune/Sangkat council officials and major stakeholders were given a presentation of the project, its components and objectives and proposed implementation arrangements. Inputs from the participants were elicited. The main environmental concerns raised during these consultations were flooding, inadequate rainfall/drought, odor associated to animal raising, soil erosion, dust and noise associated with rehabilitation work. The main social concerns raised included household impacts of seasonal migration, lack of loan repayment and community tension, difficulty sustaining SHG momentum with limited time for participation, etc. Such concerns are addressed in various aspects of the ESMF as well as environmental clauses for civil works contractors, as it pertains to construction impacts.

9.2 Grievance Redress Mechanism

189. During site preparation and construction phases, there may be complaints related to the environmental performance of the project. To ensure that there will be a mechanism to resolve such complaints, LEAP through MOI will undertake the following prior to the start of site works:

- (a) establish a grievance redress mechanism (GRM)
- (b) make public the existence of the GRM through public awareness campaigns
- (c) ensure that names and contact numbers of representatives of LEAP/MOI and contractors are placed on the notice boards outside the construction site and at local government offices (e.g., provincial and commune levels).

190. The Grievance Redress Committee (GRC) will be established in every target commune/Sangkat with members from the commune councils, local NGOs, and women's organizations. Grievances can be filed in writing or verbally with any member of the GRC. The committee will have 15 days to respond

with a resolution. If unsatisfied with the decision, the existence of the GRC will not impede the complainant's access to the Government's judicial or administrative remedies. LEAP/MOI, through the Siem Reap and Phnom Penh SMTs, will make public the existence of this grievance redress mechanism through public awareness campaigns. LEAP/MOI will also set-up a hotline for complaints and the hotline will be publicized through the media and numbers placed on the notice boards outside the construction site and at local government offices (e.g., provincial, district, commune levels). Locally affected people will still be able to express grievances through the commune councils and these would be referred to LEAP/MOI through the usual channels in those committees.

SECTION X: MONITORING AND REPORTING ARRANGEMENT

191. The MOI will be responsible for coordinating and reporting the monitoring of environmental and social safeguard implementation, with support and inputs from NCDD Secretariat, the Ministry of Agriculture, Forestry and Fisheries, and both SMTs. The reporting of environmental and social safeguard implementation would follow the project PIM.

192. During the implementation of sub-projects, the project director or designated officer/advisor will monitor compliance of the environmental and social mitigation measures. The monitoring will focus on how well the risk mitigation measures are being adhered to and followed by the households during the micro-investment planning, preparation and implementation. This means checking on whether, for example, animal raising activities/sub-projects have properly addressed waste issues in the design as well as during implementation and whether households involved in vegetable farming have adopted good pest management practices (e.g. integrated pest management guidelines).

193. The C/S Council is responsible to keep all the documents including environmental reports. Original documents of each projects should be kept in project file that is kept in the Commune/Sangkat Office. The file should be kept in the office for at least five years after the project is completed. More details are outlined in the CSF PIM.

194. The World Bank's Environmental and Social Safeguard Specialists will separately review adherence to the ESMF and mitigation measures. All records related to the ESMF application will be consolidated in the progress report and kept by the implementing agencies (i.e. The Ministry of Interior) for review during the Bank supervision missions.

ANNEXES

District	Commune	(1) Area coverage by natural forest >50%	(2) Area coverage by natural forest or wet area >10%	(3) Intend to reserve for natural protected area in the future
Angkor Thom	Chob Ta Trav (1) Leang Dai (2, 3) Peak Snaeng (1)	√ √	4	1
Chi Kraeng	Svay Chek (2) Anlong Samnar (1, 2 &3) Chi Kraeng (2, 3) Kouk Thlok Kraom (2)	✓	↓ ↓ ↓	√ √
Kralanh Prasat Bakong	Spean Tnaot (2, 3) Sambuor (1, 2, 3) Kampong Phluk (2, 3)	✓	\checkmark	\checkmark
Puok	Trapeang Thum (2) Doun Kaev (3) Kaev Poar (2, 3) Khnat (2, 3) Lvea (2, 3) Mukh Paen (2, 3) Por Treay (1, 2, 3) Sasar Sdam (2) Prey Chruk (2, 3) Reul (2)	*	\checkmark	✓ ✓ ✓ ✓
Siem Reab	Samraong Yea (2, 3) Trei Nhoar (2) Chong Khnies (2) Krabei Riel (2) Svay Dangkum (3) Ampil (3)		\checkmark	√ √ √
Soutr Nikom	Tuek Vil (3) Dan Run (2, 3) Kampong Khleang (1, 2, 3)	\checkmark	\checkmark	√
Srei Snam	Chrouy Neang Nguon (2) Slaeng Spean (2)		\checkmark	
Svay Leu	Khnang Phnum (3) Svay Leu (3) Ta Siem (3)			✓ ✓ ✓
9	34	6	24	20

ANNEX 1: List of District and Communes in Environment Watch List in Siem Reap Province

Annex 2: Cumulative List of LEAP Community Consultations in Siem Reap and Phnom Penh (as of December 2016)

Phase	Date	Location		Participants (including
	a			approximate number)
Project Identification		Woth Slaeng, Chi Kraeng Commune, Chikraeng District Siem Reap	pilot beneficiaries have fared since the close of pilot operation and to assess what kind of support they need.	World Bank Vice President, WB Team, including many members of SHGs supported under the LEAP pilot. Approximately 200 villagers, most of whom participated in the pilot.
Project Preparation	April 10, 2016	Rolum Run Thmey	To conduct	Village Chief, 3 Group
	April 9-13, 2016 April 18 to May 6, 2016	village, Sre Noy commune, Varin District Siem ReapSiem Reap, and Phnom Penh		Leaders, and 159 Villagers
	April 11, 2016 (AM)	Woth Slaeng, Chi	To discuss and	Commune Council
		Kraeng Commune, Chikraeng District Siem ReapRolum Run Thmey village, Sre Noy commune, Varin District Siem Reap	Environmental Safeguards and conduct capacity need assessment. To conduct screening exercise to find out for Ethnic Minorities/IP	
	April 11, 2016 (AM)	Leang Dai Commune, Angkor Thom District Siem ReapWoth Slaeng, Chi Kraeng Commune, Chikraeng District Siem Reap	explain Social and Environmental Safeguards and conduct capacity need assessment To discuss and explain Social and	Commune Council Chief, Member, 10 Village Chiefs, and Saving Leaders from 7 Villages, and 16 villages Commune Council Member 14 Vice Village Chiefs from 10 villages, and 31 villagers from the 10 villages.
	April 11, 2016 (PM)	Kantuot Commune, Svay Leu District Siem Reap Leang Dai Commune, Angkor Thom District Siem Reap	screening exercise to find out for Ethnic Minorities/IP. To discuss and explain Social and	Commune Chief, Member, Clerk, Assistant, Village Chief, and 8 villagers Commune Council Chief, Member, 10 Village Chiefs, and Saving Leaders from 7 Villages, and 16 villages
	1	Provincial Hall Siem Reap Kantuot Commune, Svay Leu	Lessons Learned Workshop: to	LEAP team members from the Siem Reap Provincial Government, other

1		District	LEAP design	provincial line department
				provincial line department representatives, ADB and
		Siem Reap		
			pilot lessons	NGOs Commune Chief,
			m 1 /	Member, Clerk, Assistant,
			To conduct	Village Chief, and 8
			screening exercise to	villagers
			find out for Ethnic	
			Minorities/IP.	
	April 21, 2016 (AM)	Woth Kampong	To present the	4 Commune Council
	April 20, 2016	Phluk, Kampong	project design,	Members, 3 Village
	-	Phluk Commune,	confirm demand and	Chiefs, Vice Village
		Prasat Bakong District		Chief, and 18 Villagers
		Siem Reap Provincial		from 3 villages LEAP
		Hall	Workshop: to	team members from the
		Siem Reap		Siem Reap Provincial
		Stern Trenp	LEAP design	Government, other
				provincial line department
			pilot lessons	representatives, ADB and
				NGOs
	April 21 2016 (DM)	Sasar Sdam	To present the	Village Chief and Vice
	April 21, 2016 (PM)		To present the	
	April 21, 2016 (AM)	Commune, Puok	project design,	Village Chief from 12
		District		villages, 25 villagers from
		Siem ReapWoth	seek feedback	12 villages4 Commune
		Kampong Phluk,	To present the	Council Members, 3
		Kampong Phluk	project design,	Village Chiefs, Vice
		Commune, Prasat		Village Chief, and 18
		Bakong District	seek feedback	Villagers from 3 villages
		Siem Reap		
	April 22, 2016	Mr. Proun's house,	To present the	Vice Commune Chief,
				Mambar Clark Villago
	April 21, 2016 (PM)	Preah Dak Village,	project design,	Member, Clerk, Village
	April 21, 2016 (PM)	Preak Dak Commune,	confirm demand and	Chief, Vice Village Chief,
	April 21, 2016 (PM)	Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback	Chief, Vice Village Chief, and 26 villagers.
	April 21, 2016 (PM)	Preak Dak Commune, Banteay Srei District Siem Reap Sasar	confirm demand and seek feedback To present the	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice
	April 21, 2016 (PM)	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune,	confirm demand and seek feedback To present the project design,	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12
	April 21, 2016 (PM)	Preak Dak Commune, Banteay Srei District Siem Reap Sasar	confirm demand and seek feedback To present the project design,	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice
		Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap	confirm demand and seek feedback To present the project design,	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages
	April 21, 2016 (PM) April 29, 2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District	confirm demand and seek feedback To present the project design, confirm demand and	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from
		Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap	confirm demand and seek feedback To present the project design, confirm demand and seek feedback	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr.	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr.	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune,	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor households and	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor households and communities To present the	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor households and communities	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor households and communities To present the project design, confirm demand and	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief,
	April 29, 2016 April 22,2016	Preak Dak Commune, Banteay Srei District Siem Reap Sasar Sdam Commune, Puok District Siem Reap World Bank Office Phnom PenhMr. Proun's house, Preah Dak Village, Preak Dak Commune, Banteay Srei District Siem Reap	confirm demand and seek feedback To present the project design, confirm demand and seek feedback Lessons Learned workshop to hear and share examples of good practices in identifying and targeting poor households and communities To present the project design, confirm demand and seek feedback	Chief, Vice Village Chief, and 26 villagers. Village Chief and Vice Village Chief from 12 villages, 25 villagers from 12 villages with Urban Poor NGOs, DPs and Technical Line Departments Vice Commune Chief, Member, Clerk, Village Chief, Vice Village Chief, and 26 villagers.
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July 28, 2016 (8.30am-		-	41 people from Sangkat,
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		community feedback Present overall	
		LEAP design,	
		benefits, risks and	
		proposed safeguard	
		arrangements. Seek	
		community feedback	
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12.00pm)	Khan Russey Keo		Sangkat, and 1 community
12.00pm)	Phnom Penh	benefits, risks and	Sangkat, and T community
		proposed safeguard	
		arrangements. Seek	
		community feedback	
Sept 15, 2016	World Bank, MR1,	*	6 people from civil society
Sept 15, 2010	Phnom Penh		NGOs
		to learn about their	11005
		safeguards	
		implementation and	
		discuss on LEAP	
		safeguard	
		arrangements.	
Nov 8, 2016	Sangkat Dankor and		48 people from Sangkat
	Prey Veng, Khan		Councilors, Urban Poor
	Dankor, Phnom Penh		Communities, Village
	Dalikol, Filliolii Felli		Chiefs, community
			leaders, villagers, LEAP
			PPC team and WB Team,
			include PM on Agr and
			Program Leader).
Nov 11 2016	World Don's Office	Consultative	14 page la from 7 NCOs
Nov 11, 2016	World Bank Office,		14 people from 7 NGOs,
	Phnom Penh	U	MOI, Bank team.
		to seek for	
		comments and	
		feedback on LEAP	
		overall project	
		design, risks	
		management and	
		safeguard	
Dec 12, 2016	Khan Danlas	arrangements.	20 magnia from Secolar
Dec 13, 2016	Khan Dankor,		30 people from Sangkat
	Sangkat Dankor and	with urban poor	Councilors, Urban Poor
	Prey Veng, Phnom		Communities, Village
	Penh	problems and issues,	
			leaders, villagers, LEAP
			PPC team and WB Team
			include Bank Country
			Director).
Dec. 28, 2016	Phnom Penh Hotel, in		60 people from 13
	Phnom Penh		Sangkat and 11 Khan,
			PPC team, MOI, NGOs,
			Development Donors, and
		LEAP project	Australian Embassy.

		design; on environmental and social safeguard instruments.	
	Hotel, in Siem Reap province.	Consultative meeting to disseminate and obtain feedback on LEAP project design; on environmental and social safeguard instruments.	83 people from 47 communes, 9 districts, PPC team, MOI team and NGOs in Siem Reap province.

Consultations and Disclosures

a. Consultations:

<i>a. Consult</i> When/Date	Location/Place	Language	Who/Participants	What/documents	Conclusions/Remarks
October 31, 2015	Slaeng Pagoda, Chi Kraeng Commune, Chikraeng District Siem Reap	Khmer and English	200 participants (WB Vice President, WB Team, National Team, SHG members, and	Field visit at Chikraeng District Siem Reap province to learn LEAP pilot and to assess the	list of participants on file of Vice President Visited
	-		villagers).	supports needed.	
Nov 30, 2015	World Bank, MR2 Phnom Penh	English	7 participants (LEAP director & manager, WB Safeguards Specialists, TTLs, and Bank Team members).	Meeting to discuss the safeguards.	list of participants on file of Identification Mission World Bank safeguards framework used.
Dec 4, 2015	Siem Reap Provincial Hall	Khmer and English	6 participants (LEAP provincial team, WB Safeguards Team).	Field visit Meeting to discuss the safeguards compliance of LEAP.	list of participants on file of Identification Mission World Bank safeguards framework used
Dec 5, 2015	Krabei Riel Commune - Siem Reap District and Leang Dai Commune – Angkor Thom district, Siem Reap province.	Khmer and English	95 participants (commune and village authorities, SHG leaders and members, Villagers, community leaders, LEAP provincial team, WB safeguards team)	Consultative meeting to discuss the safeguards issues and causes affected and safeguards prevention measures.	list of participants on file of Identification Mission
Dec 6, 2015	Slaeng Pagoda, Chi Kraeng Commune, Chikraeng District Siem Reap.	Khmer and English	49 participants (commune and village authorities, SHG leaders and members, Villagers, community leaders, LEAP provincial team, WB safeguards team)	Consultative meeting to discuss the safeguards issues and causes affected and safeguards prevention measures.	list of participants on file of Identification Mission
Dec 7, 2015	World Bank, MR2 Phnom Penh	English	7 participants (LEAP director & manager - MOI, WB Safeguards Specialists, TTLs, and Bank Team members).	Meeting to brief safeguard issues finding in Siem Reap and discuss safeguards prevention measures.	list of participants on file of Identification Mission World Bank safeguards framework used
Dec 7, 2015	World Bank, MR1 Phnom Penh	English	13 participants (NGOs, WB Safeguards Specialists, TTLs, and Bank Team members).	Consultative meeting with NGOs to brainstorm and discuss the experiences of	list of participants on file of Identification Mission

				NGO on safeguards implementation.	
April 10, 2016	Rolum Run Thmey village, Sre Noy commune, Varin District, Siem Reap	Khmer and English	159 participants (Villagers, community leaders, Village chiefs, CCs, WB safeguards specialist, LEAP national & SRP team, and WB Team)	Meeting to discuss the social and environmental safeguards and conduct screening exercise to find out for IP.	list of participants on file of Preparation Mission
April 11, 2016 (am)	Slaeng Pagoda, Chi Kraeng Commune, Chikraeng District, Siem Reap	Khmer and English	54 participants (commune and Village Chiefs, SHG members, villagers, LEAP provincial team and WB Team).	Meeting to discuss and explain Social and Environmental Safeguards and conduct capacity need assessment.	list of participants on file of Preparation Mission
April 11, 2016 (pm)	Leang Dai Commune, Angkor Thom District, Siem Reap province	Khmer and English	36 participants (commune and Village Chiefs, SHG members, villagers, LEAP provincial team and WB Team).	Meeting to discuss and explain Social and Environmental Safeguards and conduct capacity need assessment.	list of participants on file of Preparation Mission
April 12, 2016 (am)	Kantuot Commune, Svay Leu District, Siem Reap Province	Khmer and English	20 participants (Commune Chief, CC members, village chiefs and villagers and WB Team).	Meeting to discuss and explain Social and Environmental Safeguards; conduct capacity need assessment; and conduct screening exercise to find out for IP.	list of participants on file of Preparation Mission
April 12, 2016 (pm)	Siem Reap Provincial Hall	Khmer and English	5 participants (Siem Reap Safeguards focal point, Bank Safeguards Specialists, TTL and WB Team).	Meeting to prepare simplified pest management (PMP) and revised ESMF.	list of participants on file of Preparation Mission
April 21, 2016	Kampong Phluk Commune, Soutr Nikum District and Sasar Sdom Commune, Puok District, Siem Reap Province	Khmer and English	87 participants (Commune Chiefs, CC members, Village Chiefs, villagers, LEAP National and provincial teams and WB Team).	Field visit for the consultative meeting to discuss and explain Social and Environmental Safeguards; conduct capacity need assessment.	list of participants on file of Preparation Mission
April 22,	Anlong Samnar	Khmer	47 participants	Field visit for the	list of participants on file of Preparation

2016 April 29	Commune, Chikreng District, Siem Reap Province World Bank,	and English English	(Commune Chiefs, CC members, Village Chiefs, villagers, LEAP National and provincial teams and WB Team).	consultative meeting to discuss and explain Social and Environmental Safeguards; conduct capacity need assessment. Meeting to brief	Mission list of participants on
2016	MR1 Phnom Penh	Liigiisii	(LEAP MOI, MAFF, PPC, WB Safeguards Specialists, TTLs, and Bank Team members).	safeguard issues finding in Siem Reap and discuss on ESMF and RPF preparation.	file of Preparation Mission World Bank safeguards framework used.
July 21, 2016	Doun Kaev Commune, Puok District, Siem Reap	Khmer and English	58 participants (Commune Chiefs, CC members, Village Chiefs, villagers, LEAP National and provincial teams and WB Team).	Field visit for the consultative meeting to discuss and explain Social and Environmental Safeguards.	list of participants on file of Technical Support Mission
July 22, 2016	Anlong Samnar Commune, Chikreng District, Siem Reap	Khmer and English	40 participants (Commune Chiefs, CC members, Village Chiefs, villagers, LEAP National and provincial teams and WB Team).	Field visit for the consultative meeting to discuss and explain Social and Environmental Safeguards.	list of participants on file of Technical Support Mission
July 27, 2016	Sangkat Khmuonh, Khan Sen Sok and Sangkat Trapaing Krasang, Khan Por Sen Chey, Phnom Penh.	Khmer and English	29 participants (Sangkat Councilors, Village Chiefs, villagers, LEAP PPC team and WB Team).	Field visit for the consultative meeting to discuss and explain Social and Environmental Safeguards.	list of participants on file of Technical Support Mission
July 28, 2016	Sangkat Prek Phnov, Khan Prek Phnov and Sangkat Svay Pak, Khan Russey Keo, Phnom Penh.	Khmer and English	49 participants (Sangkat Councilors, CC members, Village Chiefs, villagers, LEAP PPC team and WB Team).	Field visit for the consultative meeting to discuss and explain Social and Environmental Safeguards.	list of participants on file of Technical Support Mission
Sept 15, 2016	World Bank, MR1, Phnom Penh	English	6 participants (NGOs and WB Team)	Consultation meeting with CSO to learn about their safeguards implementation and discuss on	list of participants on file of Stakeholder Meeting on Safeguards

				LEAP safeguard arrangements.	
Nov 8, 2016	Sangkat Dankor and Prey Veng, Khan Dankor, Phnom Penh	Khmer and English	48 participants (Sangkat Councilors, Urban Poor Communities, Village Chiefs, community leaders, villagers, LEAP PPC team and WB Team, include PM on Agr and Program Leader).	Informal discussion of community needs, seeking feedback on proposed project activities including ESMF and RPF.	list of participants on file of Management Review and next step on LEAP Appraisal Package
Nov 11, 2016	World Bank Office, Phnom Penh	Khmer and English	14 participants (representatives from 7 NGOs, MOI, Bank team).	Consultative meeting with CSOs to seek for comments and feedback on LEAP overall project design, risks management and safeguard arrangements.	list of participants on file of LEAP Civil Society Consultations
Dec 13, 2016	Khan Dankor, Sangkat Dankor and Prey Veng, Phnom Penh	Khmer and English	30 participants from Sangkat Councilors, Urban Poor Communities, Village Chiefs, community leaders, villagers, LEAP PPC team and WB Team include Bank CM and CD).	Field visit to discuss with urban poor communities about problems and issues, the support needed, as well as safeguards issues.	
Dec. 28, 2016	Phnom Penh Hotel, in Phnom Penh	Khmer and English	60 participants from 13 Sangkat and 11 Khan, PPCH, MOI, NGOs, International donors, and Australian Embassy.	Consultative meeting to disseminate and obtain feedback on LEAP project design; on environmental and social safeguard instruments.	list of participants on file of LEAP consultations meeting in PPC.
Dec. 29, 2016	Khemara Angkor Hotel, in Siem Reap province.	Khmer	83 participants from 47 communes, 9 districts, PPC, MOI, NGOs in Siem Reap province.	Consultative meeting to disseminate and obtain feedback on LEAP project design; on environmental and social safeguard instruments.	list of participants on file of LEAP consultations meeting in Siem Reap province.

b. Disclosures:

When/Date	Location/Place	Language	What/documents
Disclosure 29 September	MOI website	English	LEAP ESMF and RPF
2016			
Re-disclosure 18 November	MOI website	English	LEAP ESMF and RPF
2016			
Re-disclosure 29 November	MOI website	English and Khmer	LEAP ESMF and RPF
2016			

ANNEX	3:	The	"Non-Eligibility	Checklist"
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The project activities will not include below:

- 1) Production or trade in any product or activity deemed illegal under host country laws or regulations or international conventions and agreements, or subject to international bans, such as pharmaceuticals, pesticides/herbicides, ozone depleting substances, PCBs, wildlife or products regulated under CITES.
- 2) Production or trade in weapons and munitions.
- 3) Production or trade in alcoholic beverages (excluding beer and wine).
- 4) Production of tobacco.
- 5) Gambling, casinos and equivalent enterprises.
- 6) Production or trade in unbounded asbestos fibers or use of asbestos-containing materials. This does not apply to purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.
- 7) Drift net fishing using nets in excess of 2.5 km in length.
- 8) Purchasing of Electrical shock/bomb for fishing purpose
- 9) Fishing of protected species
- 10) Production or activities involving harmful or exploitative forms of forced labor/harmful child labor.
- 11) Sub-project activities involving logging or those that would significantly degrade or convert forest, critical natural habitats and exotic species. Production and distribution of construction materials is one of the eligible activities provided that wood/lumber production are sourced legally and further due diligence of the sources will be pursued as part of processing and approval of the sub-project proposal.
- 12) Commercial logging operations for use in primary tropical moist forest production or trade in wood or other forestry products other than from sustainably managed forests.
- 13) Activities involving major construction and civil works that would cause significant adverse impact and require a full EIA report/IEIA according to the national EIA regulation and in line with WB safeguard policies (e.g. category A).
- 14) Large-scale activities involving significant conversion or degradation of natural and/or critical habitats and/or any activities in legally protected or internationally recognized areas
- 15) Large scale activities involving production, harvesting, or trade in wood or other forestry products from plantation and natural forests other than from legal and sustainable origin
- 16) Large scale activities involving harvesting of wild fish populations or other aquatic species other than from legal and sustainable origin;
- 17) Activities involving significant alteration, damage, or removal of any critical cultural heritage

ANNEX 4: SUB-PRPJECT PROPOSAL SCREENING & MONITORING FORMS

Province / Municipality	District/Khan	Commune/Sangkat
Name of Project :		
Does the project need environmental analys	is (EA)? Yes [] No []	
If not, reason why?		
		0
Does the project potentially affect any know If yes, immediately report to the World Bar		
Does the project need Report on Environme	ntal Safeguard Measures in connection?	
F J	Yes [] No D	
If not, reason why?		
DateC/S Chief Da	ate: The official con	ducted the screening
Source: adapted from the Commune/Sa	nakat Project Implementation Manual	1 2000.18

Form 1: Safeguards screening (see a completed example in the CSF PIM)

Source: adapted from the Commune/Sangkat Project Implementation Manual, 2009:18

Form 2. Environmental Mapping⁸

The following symbols should be used for assisting the project to develop an environmental map.

Symbol	Meaning
$\square \land \land$	Steep slope (more than 5%) Arrow points down hill
\rightarrow	Slight slope (less than 5%) Arrow points down hill
ESilt	Highly erodable soil: silt or dispersive clay
	Paddy fields
	Fields for annual crops
Ϙ Ϙ Ϙ Ϙ Ϙ Ϙ	Fruit Tree crops
	Grass land
ቀ ቀ ቀ	Forest with small trees
ŶφŶ	Forest with big trees
$\square \square \square_{\text{Ring wells}}$	Area of houses. Write down what kind of water supply.
	Water all year
E	Water part of the year
	Cultural site
	Access route to site
	National and Provincial protected areas

⁸ Some communes/sangkats may already have their environmental mapping or disaster risk mapping developed as part of their recent commune development planning. In this case, the commune/sangkat councils can verify or update the map to reflect any changes that may have in their respective communes/sankgats

Symbol	Meaning
	Biodiversity conservation areas issued by Ministry of Environment
DRM	Area that is vulnerable to disaster risks and climate extreme events such as drought and rain intensity.

Source: adapted from the commune-based environmental map in the CSF- PIM, 2009.

Form 3: Environmental Analysis Report (see a completed example in the CSF- PIM)

C-5	C-SF – PIN			
Environment	al Analysis Report			
Province:	Commune: Roseisrok			
District:	C/S Code: 123456			
Name of sub-project:				
Date of participatory environmental analysis	Name/position of official responsible for analysis			
Place of doing the analysis	No. of local people took part in the analysis (attach a list)			

Reason for carrying out Environmental Study (can be more than one)

No.	Description	Check
1	Project may damage area that is important for environmental or cultural reasons	
2	Project may cause damage to domestic water supplies	
3		
4		
5		

Recommendation

No	Description	Check
1	If the project is implemented following the project design, there will not be any unacceptable impact on the environment.	
2	The project will have medium impact on the environment. However, this impact can be ameliorated by implementing the environmental management plan	
3	The project design is changed to avoid unacceptable big and medium impact on environment	
4	Project is cancelled because trade-offs between benefits of the project outputs and bad impact is acceptable.	

Source: adopted from the ESMS of ADB-funded TSSD and CSF- PIM, 2009

Date: Responsible Official

Form 4: Checklist of Environmental Impact Analysis: potential impacts and mitigation measures

Environmental Impacts and *Mitigation Measures of Infrastructure services.* Below is an example of potential environmental impacts and mitigation measures for those small-scale infrastructure investments under Sub-components 1.3 and 2.2

Type of small scale infrastructure investment	Environmental impact/problem	Mitigation measures	Budget
Road	 Damage to fields or crops near construction Damage caused by truck transporting laterite Problem caused by dust and nuisance 	EMP for small-scale infrastructure or Environmental code of practice (ECOP including careful construction technique (see Annex 4). The contractor will spray water to reduce the dust when the weather is dry and periodically clean stagnant debris. Contractor will fence off Construction site to reduce any possible annoyance to neighbors.	Zero or minimal cost
Bridges and culverts	 Damage caused to the area around the construction site Pollution of the stream or water body during construction 	Environmental code of practice (ECOP) including choosing to construct during dry season	Zero or minimal cost
Buildings	 Damage to the area around the construction site Pollution from waste materials Bad hygiene because no sanitation provided for the workers on site 	Environmental code of practice (ECOP) including agreement with the contractor to clean the site carefully and remove all waste materials	Zero or minimal cost
Water supplies	 Pollution from wastewater during well drilling Water supply is contaminated because of bad technique during construction 	Environmental code of practice (ECOP) including agreement where waste water will flow to.	Zero or minimal cost
Weir construction or Irrigation works to address the problems from inequitable distribution of benefits and poor management of system.	damage to area around site, pollution of streams, damage caused by construction equipment; operation impacts: flooding upstream, water shortage downstream, erosion around structure and canals, water quality changes, soil fertility damage from irrigation water, loss of fisheries, changes to agriculture increase fertilizer and pesticide use, social	Environmental code of practice (ECOP)	Zero or minimal cost
Urban Drainage and Flood Control	 Soil erosion or flooding concerns (e.g., due to highly erodable soils or steep gradients) Number of stream crossings, junctions or disturbances Wet season excavation 	Environmental code of practice (ECOP)	Zero or minimal cost

	• Creation of quarry sites or borrow pits		
	 Significant vegetation removal 		
	 Wildlife habitats or populations 		
	disturbed		
	 Environmentally sensitive areas 		
	disturbed		
	Cultural or religious sites disturbed		
	• Economic or physical resettlement		
	required		
	New settlement pressures created		
Built Facilities –	Disturbance of economic activities	Environmental code of	Zero or minimal
Markets, micro and	leading to loss of property or income	practice (ECOP)	cost
small enterprise	• Number of stream crossings or		
facilities, abattoirs	disturbances		
	Wet season excavation		
	• Creation of quarry sites or borrow pits		
	• Significant vegetation removal		
	• Wildlife habitats or populations		
	disturbed		
	 Environmentally sensitive areas 		
	disturbed		
	 Cultural or religious sites disturbed 		
	 Economic or physical resettlement 		
	1		
	required		
	New settlement pressures created		

Source: Adapted from the PIM of LASED II, 2016

Environmental Impacts and Mitigation Measures of livelihood improvement. The below table provides some examples of potential environmental impacts and mitigation measures for livelihood investments include animal raising (pig, chicken, cattle), backyard fish culture, vegetable, crop and rice farming and fruit tree planting (more details in the components 1 and 2).

Example of Issue	Environmental impact/problem	Mitigation Measures	Budget
Example of Issue			
Natural habitats	 Damages or loss of vegetation cover and trees Loss or degradation of valuable natural/ ecological resources 	Environmental code of practice (ECOP) (see Annex 4).	Zero or minimal cost
Water quality and water resource availability and use	 Health/ sanitation /hygiene in local community Safety risk to community Workers health and safety 	Environmental code of practice (ECOP)	Zero or minimal cost
Natural hazards vulnerability, floods, soil stability/ erosion	 Degrade existing landscape Solid Waste generation Wastewater generation Chemicals, hazardous wastes generation Dust, air pollution 	Environmental code of practice (ECOP)	Zero or minimal cost

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 site ou Securany data Notify herita gover impletion Culture early Civilon Only a given impleting 	owing chance find res are to be in all civil works s: Contractor vers archeological historical sites, ns and objects, ding graveyards r individual graves g the civil work, the actor shall: the construction ties in the area of hance find; eate the discovered r area; e the site to prevent amage or loss of vable objects; and y "any cultural ge" found to the nment menting agency or levant provincial re Department as as possible. work may resume after permission is from the menting agency or rovincial Culture rtment.	Zero or minimal cost

Source: adapted from the ESMF of TSSD, 2009 and CSF- PIM, 2009

Form 5: Environmental Monitoring Plan

What	Where	How	When	Who
What will be monitored?	Place for monitoring?	How to monitor?	Times when monitoring will be done?	Who will be responsible to monitor?

Source: CSF- PIM, 2009

Form 6: List of Participants in Environmental Analysis or Public Consultation

Names of Village and commune/sangkat:

No.	Name	Village	Gender	Age	Occupation	Remarks
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
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ANNEX 5: Environmental Codes of Practice and Simple Mitigation Measures for Small-Scale Sub-Projects

This annex provides technical guidelines for a simple impact assessment and mitigation measures of likely types of subprojects.

etc.			
Key issues to consider	Mitigation measures	Remarks	
Location			
- Conservation area	No animal killing		
	No land occupation		
	No forest cutting		
	Solid waste Management		
	No camping		
- Flood area	Provide adequate drainage system		
	Include appropriate measure to mitigate flood		
	impacts		
- Mountainous area	Design slope should be less than 17%		
	Side drain		
	Slop protection		
	Guard rail (simple type)		
- Community area	Speed limit sign		
•	Dust and noise control		
	timely public information on works duration		
	and schedule		
- Land property	Minute of meeting on conflict resolution and		
	attached the land certificate		
	Cultural area, history, etc.		
-Fish spawning areas	Avoid negative impacts such as disposal of spoil		
and migration routes	and tree uprooting which could silt up water		
	courses Ensure optimal design.		
Construction phase			
- Borrow pit	construction materials should be obtained from		
	certified quarries;		
- Erosion risk	Design/provide adequate slop protection		
	Provide maintenance procedure		
- Solid waste	Provide appropriate waste collection and		
	disposal		
- Waste Oil	Do not allow to drain into soil and river		
- Camp	Secure agreement with local community		
1	Provide water supply, mosquito net, and		
	adequate sanitation (toilet, washing space, etc.),		
	and good housekeeping to prevent rodents,		
	insect, etc.		
- Construction material	Storage in proper area toxic wastes and materials		
storage	will be stored in safe place.		
Operation phase			
Public health, road			
safety, and other social			
negative impacts in the			

Table 5.1 ECOP for Community/Village Roads including small bridge, culvert, track improvement, etc.

village		
- Speed control	Install measures to control speed limit (sign,	
	bumper, etc.), education campaign	
- Dust control	Control speed limit, periodic watering, plant	
	appropriate trees, surfacing	
- Accident	Awareness training in cooperation with the	
	Police Office	

Table 5.2 ECOP for Community/Village Water Supply (<1,000 users), including Dug well, Drilled well, Gravity Flow System</th>

Subproject Issues	Mitigation Measures	Remarks
Location		
-Land property	Minute of meeting on conflict resolution and attached the land certificate	
-Protected area	Approved by concern sector	
-Flooding area	Detail study and proper design	
-Water source protection	Set up regulation and principle	
-Community zone	Establish the water user regulation	
-Close to borrow pit/quarry, waste disposal sites	Water testing	
Construction		
-Solid waste generation	Provide appropriate waste collection and disposal	
-Waste Oil	Do not allow to drain into soil and river	
-Camp	Secure agreement with local community	
	Provide water supply, mosquito net, and adequate sanitation (toilet, washing space, etc.), and good housekeeping to prevent rodents, insect, etc.	
-Storage of construction material	Storage in proper area; toxic wastes and materials will be stored in safe place Storage in proper area	
Operation		
-possible contamination of water	Establish measure to protect quantity and quality of water sources. Fencing water tape	

Table 5.3 ECOP for Village Irrigation System (<150 ha), including weir, irrigation channels, repaired weir, small water storage (used primarily to feed animals)</th>

Issues to consider	Actions	
Location		
Down stream		
- Impact water user	Community consultation (resolution)	
Impacts on water flow	Consider including generic dam safety	
	measures into design	
- Fertilizer	Data from community	
	Introduction to community	

- Erosion	Proper design	
- Temporary Block fish passage	Properly designed screens and ladders in consultation with community	
Up steam		
- Fish protection	Establish the fish protection area; Integrate fish passage and screening activities into subprojects implementation	
- Water recourse protection	Set up management regulation	
Construction phase		
- Borrow pit	construction materials should be obtained from certified quarries	
- Erosion location	Design the suitable slop protection	
	Provide Maintenance procedure	
- Solid waste	Allocate suitable area for waste.	
	Separate recyclable waste	
- Wasted lubrication	Do not allow to drain into soil and river	
- Camp	Let community allocate	
	Provide sanitation, waste water and allocate the soiled waste site	
- Construction material storage	Store safely in an approved area	
Operation		
- Potential increase use of	Provide training on safe use of pesticides	
pesticide	Promote the use of no-chemical agriculture	

Table 5.4 ECOP Buildings (including school, market, health center, community hall, sanitary facilities)

Subproject issues	Mitigation measure	Remarks
- Land property	Land use certificate	
Water system	Detail study and proper design	
- Drainage system	Check drainage systems at	
	planning stage	
- Location	Check, document and mitigate for	
	any geo-specific environmental	
	issue	
- Waste materials	Dispose of all waste in line with	
	Government regulations	
- Safety	Provide H&S training based upon	
	plans, all site workers to be	
	provided with PPE	
Operation		
- Waste management	Set up committee	
	Allocate suitable area for waste	
	Separate recyclable waste	
	Set up rules and regulations	
- Water system, drainage system	Detail study and proper design to	
	protect rivers and underground	
	water	