

Initial Environmental Examination

April 2016

LAO: Northern Rural Infrastructure Development
Sector Project

Nam Oun Irrigation Subproject

Prepared by Ministry of Agriculture for the Asian Development Bank.

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Table of Contents

1. Introduction	4
2. Description of the Subproject	4
2.1 Subproject Scope.....	4
2.2 Area of Influence.....	4
3. Policy, Legal and Administrative Framework	10
4. Description of the Environment	11
4.1 Physical Resources.....	11
4.2 Ecological Resources.....	12
4.3 Economic, Social and Cultural Resources.....	13
4.4 Land Use	14
4.5 Unexploded Ordinance	15
5. Anticipated Environmental Impacts and Mitigation Measures	15
5.1 Method of Assessment.....	15
5.2 Environmental Impacts Related to Location	15
5.3 Environmental Impacts Related to Construction.....	15
5.4 Environmental Impacts Related to Operation	17
5.5 Key Data Gaps.....	18
5.6 Uncertainties	18
5.7 Global, Transboundary and Cumulative Impacts	19
6. Analysis of Alternatives	19
7. Information Disclosure, Consultation and Participation.....	19
7.1 Consultations and Information Disclosure during Subproject Design.....	19
7.2 Further Information Disclosure	20
8. Grievance Redress Mechanism	20
8.1 Requirements.....	20
8.2 Grievance Approach.....	21
9. Environmental Management Plan.....	21
9.1 Responsibilities for Environmental Management.....	21
9.2 Approach to Environmental Monitoring.....	26
10. Conclusions and Recommendations	29

List of Tables

Table 1	Rainfall in Oudomxay Province	12
Table 2	NRIDSP Main Steps of Grievance Mechanisms	21
Table 3	Environmental Management Plan Summary	23
Table 4	Environmental Monitoring Plan	27

List of Figures

Figure 1	Location Map of Nam Oun Irrigation Subproject	5
Figure 2	Catchment Area of Nam Oun Irrigation Subproject	7
Figure 3	Command Area of Nam Oun Irrigation Subproject.....	8
Figure 4	Photos of the Existing Irrigation Schemes of Nam Oun Subproject.....	9

Attachments

Att. 1	Consultation Attendance Sheet (1/14)-(14/14)	30~43
Att. 2	Photos of Public Consultation	44~45

List of Abbreviations

ADB	–	Asian Development Bank
AHs	–	Affected Households
AP	–	Affected Persons
ASL	–	Above Sea Level
DAFO	–	District Agriculture and Forestry Office
DCO	–	District Coordination Office
DIU	–	District Coordination Unit
DMS	–	Detailed Measurement Survey
DONRE	–	Department of Natural Resources and Environment
DPWT	–	Department of Public Works and Transport
DRC	–	District Resettlement Committee
EA	–	Executing Agency
EMDP	–	Ethnic Minority Development Plan
EMMP	–	Environmental management and monitoring plan
EPL	–	Environmental protection law
FDI	–	Foreign Direct Investment
GIC	–	Grant Implementation Consultant
GOL	–	Government of Lao PDR
GRC	–	Grievance Redress Committee
HH	–	Household
IA	–	Implementing Agency
IEE	–	Initial Environmental Examination
LAO PDR	–	Lao People's Democratic Republic
MAF	–	Ministry of Agriculture and Forestry
mg/l	–	Milligrams per liter
MONRE	–	Ministry of Natural Resources and Environment
NBCA	–	National Biodiversity Conservation Area
NGO	–	Non-Government Organization
NPC	–	National Project Committee
NPMO	–	National Project Management Office
NRIDP	–	Northern Rural Infrastructure Development Project
NTFP	–	Non Timber Forest Product
PAFO	–	Provincial Agriculture and Forestry Office
PIU	–	Project Implementation Unit
PONRE	–	Provincial Office of Natural Resources and Environment
PPO	–	Provincial Project Office

PPTA	–	Project Preparatory Technical Assistance
PSC	–	Project Steering Committee
RCS	–	Replacement Cost Study
RF	–	Resettlement Framework
RP	–	Resettlement Plan
SEDP	–	Socio Economic Development Plan
SESAH	–	Socio-Economic Survey of Affected Households
SMMP	–	Social management and monitoring plan
SPS	–	ADB Safeguard Policy Statement (2009)
STEA	–	Science Technology and Environmental Agency (now disbanded, function taken up by MONRE)
TA	–	Technical Assistance
TOR	–	Terms of Reference
VLD	–	Voluntary Land Donation
WREA	–	Water Resources and Environment Authority (now disbanded, function taken up by MONRE)
WUG	–	Water user group

1. Introduction

1. The Northern Rural Infrastructure Development Project (NRIDP) will address key constraints to rural economic growth poverty reduction in the provinces of Oudomxay, Phongsaly, LuangNamtha and Bokeo, in the north of the country, consisting of infrastructure improvements and linked initiatives to maximize the ability of beneficiaries to add value to commodities they produce, capacity building in support of institutional development within the Ministry of Agriculture and Forestry (MAF) and in support of subproject implementation, and project management services. It is a sector project, and subprojects consisting of improvements to irrigation systems and rural access roads, will be selected within the project provinces. The improvements will take account of increased frequency and intensity of extreme climatic events that are expected to result from continuing global climate change.

2. The proposed Nam Oun irrigation subproject was selected as a representative subproject in Oudomxay province, under the Small Project Preparatory Technical Assistance (S-PPTA) for additional financing for the NRIDP which will be implemented as one of twenty-two (22) subprojects subject to be approved by the government and ADB. The detailed feasibility study, including safeguards planning, are produced under the S-PPTA to demonstrate the level of subproject preparation required to meet Government of Lao and ADB requirements. The IEE is prepared according to the ADB's Safeguard Policy Statement of June 2009 and the EIA decree of April 2010.

2. Description of the Subproject

2.1 Subproject Scope

3. Nam Oun Irrigation Subproject is composed of one irrigation scheme, "Nam Oun irrigation scheme". The center of the Subproject is located at Ban Fen, 4 km from Houn district center (Ban Phonsavanh). Houn district center is located at 92 km from Xai district center, along the National Road No.2. The proposed irrigation development plan of Nam Oun irrigation subproject is composed of i) a new weir construction, ii) improvement of right main canal (RMC) with related canal structures, and iii) improvement of left main canal (LMC) with related canal structures.

4. Besides the irrigation improvement, productivity and impact enhancement initiatives will be delivered by the Project. These initiatives will comprise of compulsory and optional initiatives. The compulsory initiatives will include (i) support for WUGs established to operate and maintain the rehabilitated facilities; and (ii) water catchments identification and zoning. Optional initiatives will need to be further discussed with the beneficiaries during detailed design stage and could be selected from production, post-harvest handling, processing and the development of market linkage initiatives.

2.2 Area of Influence

5. Nam Oun Irrigation Subproject is located in Houn District, Oudomxay Province. **Figure 1** shows the subproject location.

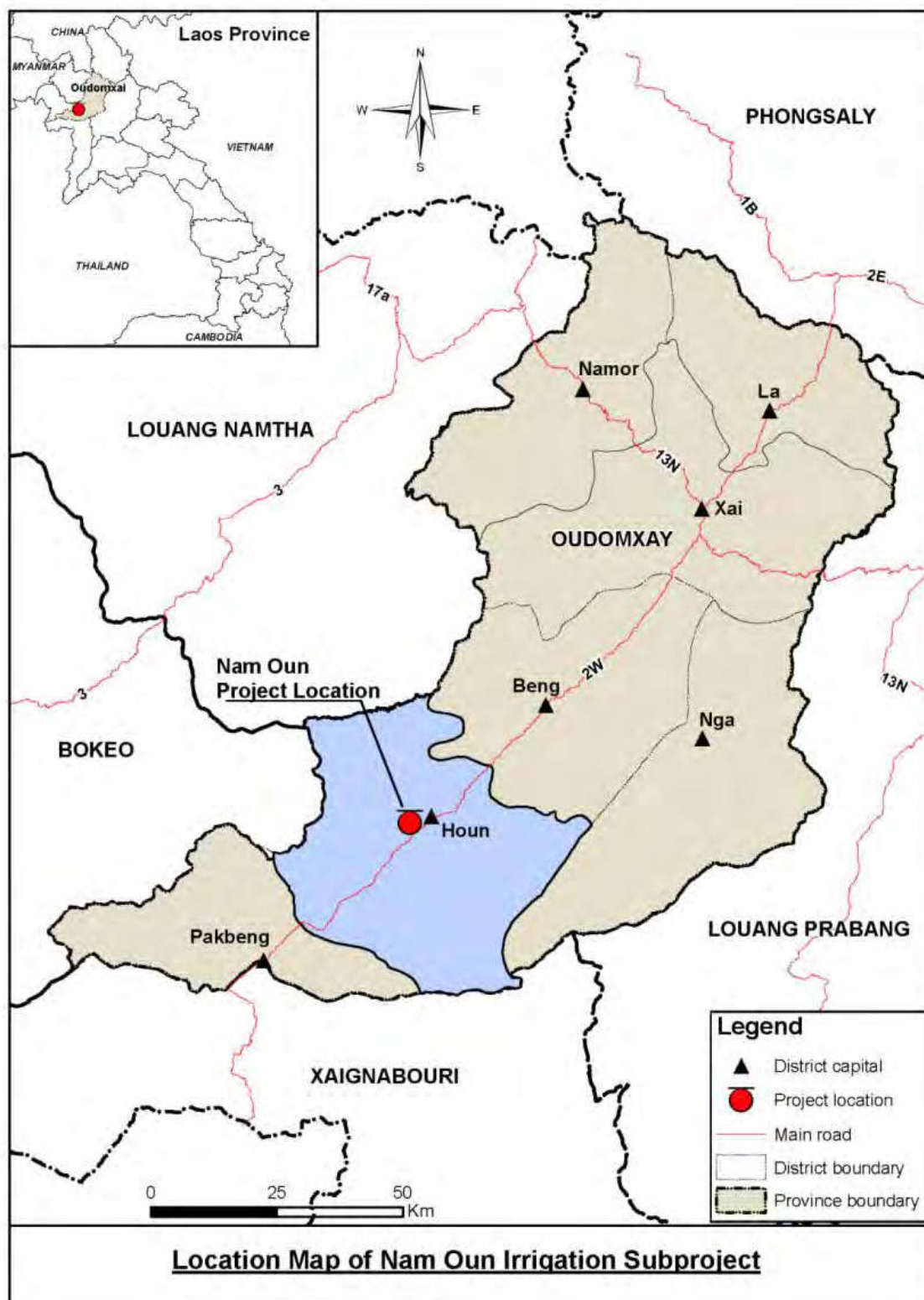


Figure 1: Location Map of Nam Oun Irrigation Subproject

6. The principal area of influence is the command area of 420ha consisting of its right bank command area of 364 ha and its left bank command area of 56 ha, respectively. The beneficiary villages are composed of 5 villages, Ban Nam Oun, Ban Fen, Ban Chantai, Ban Nongdinh and Ban Nathong with a total beneficiary of 1,208 HHs.

7. Further area of influence includes the weir and upper stream site. The catchment area of the Nam Oun streams will also be subject to planned usage as a result of the associated investments in catchment zoning and village land-use. **Figure A8-2 and 3** show the location of the catchment area and command area. Some photos of the existing irrigation schemes of Nam Oun Irrigation Subproject are presented in **Figure 4**.

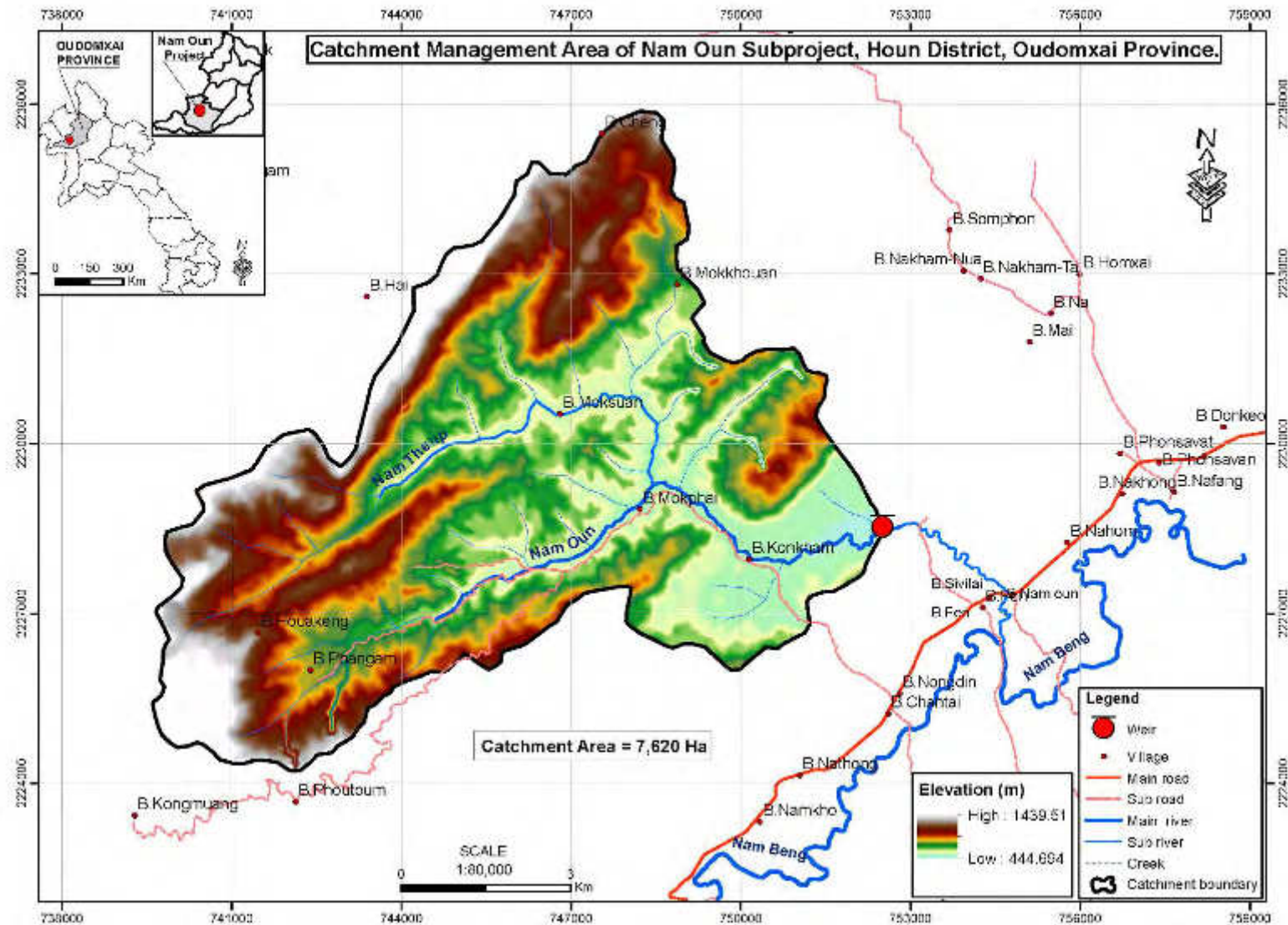


Figure 2: Catchment Area of Nam Oun Irrigation Subproject









	
Existing Nam Oun upstream weir (concrete) (view from the left bank)	LMC (earth) of the upstream weir (command area = 56 ha)
	
Proposed new weir site at 20 m upstream of the existing upstream weir (planned to construct both sides intake and control gates)	Upland field adjacent to the upstream weir (A Chinese company rented the land for 3 months for watermelon growing.)
	
Existing Nam Oun downstream weir (Buttress type) (crest length = 9 m) (view from upstream) (broken intake control steel gate at the right bank, not operational)	
	
Outlet of Intake for RMC (earth)	RMC (earth) of the downstream weir (total command area = 364 ha)

Figure 4: Photos of the Existing Irrigation Schemes of NamOun Subproject

3. Policy, Legal and Administrative Framework

8. Government policy on environmental protection is expressed in the sixth National Socio-Economic Development Plan (SEDP), for the period 2006 – 2010 and statements relating to the preparation of the ensuing seventh one, for the period 2011 – 2015 confirm that environmental protection will remain a focus¹. The formation of the Water Resources and Environment Administration (WREA) within the Prime Minister's office in 2007 was a move to strengthen environmental protection and management within government. Specific policy for environmental management of investment projects is stated in the objectives for the Decree on Environmental Impact Assessment, April 2010 which states that all investment projects may create adverse environmental and social impacts, are to be designed with the correct and appropriate environmental and social impact prevention and mitigation measures or environmental management and monitoring plans (EMMP) and social management and monitoring plans (SMMP) (Article 1).

9. The law governing the protection of the environment, including the assessment and management of projects, is the Environmental Protection Law (EPL), 1999 which is further elaborated on by the Decree on the Implementation of the EPL, of 2002. Responsibilities and procedures for Environmental Assessment, together with requirements for environmental monitoring of projects, have been revised and are set out in a new Decree on Environmental Impact Assessment (EIA decree), dated April 2010.

10. The decree sets out the principal institutional arrangements, assigning primary responsibility for undertaking environmental assessment of projects to the project developer, which may be an individual or private sector entity as well as a Government Department. In the case of development projects, the relevant line Ministry is responsible to review and assess draft environmental assessments and issue its own approval before submission to WREA and local administrations, as appropriate. The WREA is responsible for review and approval of environmental assessment reports, co-ordination of monitoring and evaluation, and issuance of compliance certificates, acting through the head office in Vientiane or through its provincial departments. Public participation and discussion with local administrations is required throughout the environmental assessment process.

11. Investment projects are categorized according to a schedule to the EIA decree into category 1 – small scale, requiring an initial environmental examination (IEE) or category 2 – large scale, requiring an environmental impact assessment (EIA). Where a project is of a type that is not listed, an investment application is submitted to WREA for screening. For irrigation projects, those with a command area of between 100 and 2000 ha are in category 1, and those with a command area greater than 2,000 ha are in category 2. (The corresponding category in the ADB's classification system is B, which, similarly, requires an Initial Environment Examination (IEE).

12. Lao PDR is signatory to the following international environmental agreements:

- ASEAN Agreement on the Conservation of Nature and Natural Resources
- Convention for the Protection of the World Cultural and Natural Heritage
- Agreement on the Cooperation for Sustainable Development of Mekong River Basin
- United Nations Convention to Combat Desertification
- United Nations Framework Convention for Climate Change
- Convention on Biological Diversity
- Montreal Protocol on Substances that Deplete the Ozone Layer
- Vienna Convention for the protection of the Protocol of the Ozone Layer

¹ GoL, Report on the Round Table Implementation Meeting, Vientiane, 03 Nov 2009

- Ozone Layer and the Montreal Protocol on Substances that Deplete the Ozone Layer
- Millennium Declaration
- Convention on International Trade in Endangered Species of Wild Fauna and Flora
- Stockholm Convention on Persistent Organic Pollutants
- Wetlands of International Importance Especially as Waterfowl Habitat (Ramsar Convention)

13. The decree sets out in detail procedures, rights and responsibilities for the preparation and approval of IEEs and the preparation, approval, implementation and verification of environmental management and monitoring plans (EMMPs).

4. Description of the Environment

4.1 Physical Resources

(1) Topography

14. The subproject area is at elevations between 340m - 365m ASL and is in gently undulating terrain. The weir point is on the elevation of 365 m ASL. The upper catchment area is in steep terrain at elevations of up to 527 m ASL, while the maximum height in the area is 1400 m ASL.

(2) Geology and Soils

15. Geological investigations made by the Agriculture and Forestry Soil Classification Center indicated that the soil layers within the district comprises of 6 soil categories. Most of the soil type is heavy clay and smallest part is sandy loam. The underlying rock in the area is primarily sedimentary rock formed from shallow water sediment, deposited in the Paleozoic era. Soils on the command area are alluvial, transported from parent material in the upper catchment that consists mainly of recently deposited, unconsolidated gravels, sand and clays. The soils are suited to intensive irrigated agriculture, though yields are significantly improved through the application of mineral fertilizer.

(3) Climate

16. The Northern part of Lao PDR has a warm temperate climate with dry winters and hot summers. The dry season occurs between November and February while the rainy season occurs between May and October. The dry season is generally cooler, though temperatures rise significantly in March and April prior to the onset of the rains.

17. Detailed meteorological information was sourced from Oudomxay Provincial Meteorology and Hydrology Station. Rainfall is above 160 mm between May and September, peaking in August at 354 mm. In December and February the rainfall drops below 24.2 mm and can be as low as 13.6 mm in February. The dry season is particularly pronounced in the province. Rainfall varies significantly from year to year. **Table 1** below present the total rainfall figures for the years 2006, 2007, 2009 and 2010 were particularly dry years.

Table 1: Rainfall in Oudomxay Province

Total Rainfall in mm								Station: Oudomxay					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
2005	3.6	0.4	143.7	98.6	169.2	219.8	333.4	456.5	119.1	27.8	15.1	34.6	1,622
2006	0.0	54.8	43.6	128.2	102.1	101.4	303.7	483.7	53.0	68.6	2.1	0.0	1,341
2007	1.5	23	29.2	128.2	238.9	146	146.1	293.1	192.2	95.2	45.4	0.1	1,339
2008	65.9	29.8	73.4	115.7	103.1	218.0	452.5	384.2	327.5	145.9	74.8	13.4	2,004
2009	0.0	0.0	28.4	131.4	163.0	262.1	329.4	207.3	172.4	28.4	9.4	8.5	1,340
2010	30.4	2.6	37.3	159.2	161.3	103.0	277.1	198.9	109.5	36.7	2.1	34.5	1,153
2011	13.6	0.0	102.8	222.6	264.9	212.8	253.9	233.2	395.6	65.6	13.0	0.6	1,779
2012	56.6	2.0	12.5	117.3	254.7	204.7	357.3	478.5	72.7	54.9	69.2	1.1	1,682
2013	25.7	23.2	54.1	122.6	80.8	169.2	461.2	386.6	231.4	55.7	68.9	124.6	1,804
2014	0.1	0.0	4.9	31.6	106.2	123.5	250.4	420.1					937
Mean	19.7	13.6	53.0	125.5	164.4	176.1	316.5	354.2	185.9	64.3	33.3	24.2	1,562.6

18. Temperature averages between 17.70C and 29.10C over the year, with lowest temperatures of around 11.30C occurring in January and reaching 22.40C in August. Water Resources

19. The Nam Oun rivers the water resource for the proposed irrigation scheme. Water is relatively clean, though more turbid in the wet season and sensitive to land disturbance in the catchment areas. Flows are highly dependent on levels of rainfall and are therefore greatly reduced during the dry season. Data on stream flows of Nam Oun have not been collected at stations near subproject sites.

20. Wet Season Flow: The Grant Implementation Consultant (GIC) together with the staff of Project Implementation Unit (PIU) and District Coordination Office (DCO) observed a certain large flow, estimated at 3.5 m³/sec for Nam Oun river as a normal flow during the wet season.

21. Dry Season Flow: Nam Oun river has a very limited discharge during the dry season, the catchment area of which is 76 km². The GIC and the staff of PPO observed a limited flow, estimated at 0.67 m³/s in the stream in February 2015. Based on the observation and other information, the design minimum flow of Nam Oun river for this study is estimated at 0.40 m³/s, applying a 60% of the stream flow in February.

4.2 Ecological Resources

23. Land in and around the subproject site is extensively cultivated, with thickets of trees occurring around homes and alongside waterways in some areas. Slopes surrounding the area have been subject to traditional shifting cultivation but currently bear mainly shrub vegetation, as tree cover near areas of habitation is seldom allowed to develop due to continued collection of fuel-wood and poles.

24. Increasingly, land that is not used for irrigated agriculture is used for commercial crops and tree plantations. The commercial crops include water melon and corn, the tree crops include stands of rubber trees and banana. In more distant areas formerly cleared land has been left for longer, dense secondary forest is developing, and is inhabited by common birds and reptiles. National Biodiversity Conservation Area (NBCA) around or within the project area.

25. Pesticides use in the area is observed quite extensively in Oudomxay province as well as other northern provinces, especially for commercial crops and tree plantations. A recent study by the National Agriculture and Forestry Research Institute showed that the

negative impacts from banana plantations like use of chemicals and plastic piping (which, allegedly in the lease terms with landowners, is not removed when the lessor engaging in banana cultivation leaves the land) throughout the production process could be outweighing the benefits, confirming results from missions to the province. The use of pesticides for subsistence farming is a far less significant impact. However, the intensification and commercialization of agriculture due to the development of irrigation systems potentially leads to increasing chemical input. Environmental pollution due the use of herbicides impacts in particular water quality of rivers and irrigation canals and the (occupational) health of farmers and workers on plantations. Pesticides and other agro-chemicals are imported legally or illegally from China and Thailand. Farmers can buy these products easily in most provincial towns, where labeling is poor, and shopkeepers' knowledge correspondingly poor². Although there are regulations and decrees on pesticide control and application, many of the chemicals that are stocked contain substances that are banned in Lao PDR. The Department of Agriculture within the Ministry of Agriculture and Forestry (MAF) has the mandate to control and manage the supply and trading of pesticides, and dealers are required to register at the Provincial Departments of Agriculture.

26. Aquaculture is practiced in and around the subproject area, mainly on a household scale. According to the reports of the villagers, the amount of fish caught in the stream is very low, enough to serve for families' consumption only and not enough to sell in the market. Further, DCO reported that the aquatic resource particularly fish in the stream have somewhat decreased over the last 10 years potentially due to prohibited fishing techniques (electro fishing) by local people, but likely due to a multitude of reasons. Occasional sudden fish kill in irrigation channels and rivers in the province was reported by PONRE, yet, not having the capacities to ascertain the cause.

27. Further threats to aquatic ecosystems include over fishing, the use of damaging fishing techniques such as blasting and poisoning, upstream use of pesticides, release of pollutants and the introduction of exotic fish species for aquaculture.

28. Head works and other irrigation infrastructure impacts the aquatic ecology and in particular fish migration and thus also impacting sustainable livelihoods through reduced fish stocks. DCO, village authorities and villagers confirmed that there are no long distance migratory fish species (white fish). During the dry season, the population of fish is low at upstream due to the low level of water, thus fish will not migrate upstream. However, more fish can be caught upstream during the wet season because the weir crest is under the water level. Some fish species need to migrate before the onset of the wet season, meaning that the weir is a barrier for their upstream passage. The increase of fish at upstream shows that fish can migrate upstream due to high flow level of water during the wet season. According to the villagers, by comparison of the number of fish caught at upstream and downstream of the weir is quite similar in the wet season.

4.3 Economic, Social and Cultural Resources

29. The Subproject is expected to benefit 5 villages, Ban Nam Oun, Ban Fen, Ban Chantai, Ban Nongdinh and Ban Nathong with a total beneficiary of 1,208 HHs.

30. Livelihood Sources: the main source of HH income are: i) crop production (rice, corn, vegetables, garlic, onion, and garlic), ii) livestock & poultry; iii) collection and sale of non-timber forest products; and labor.

31. Based on the sample household interviews, 56% of household income come from non-agricultural sources and 44% from agriculture sources. Of the 50 Sample households

² Louanglath, K., Tiapangnavong, T and van der Wulp, H (2008). Pesticide Survey Northern Lao PDR, FAO project publication: GCP/RAS/229/SWE: Pesticide Risk Reduction in South East Asia.

74% are involved in rice production, 60% are producing corn, 59% are involved in livestock, poultry and fish production, 8% are producing banana production, 6% are producing watermelon and 4% are producing rubber.

32. Poverty: Based on the Village Household Master list, 92% of HHs in the area are classified to be at medium income level, 3% are reported to be poor and 6% are high income category. Ban Faen has the highest percentage of poor HHs at 7%, Chantai 3% and Nam Ou and Nongdin 1% each.

33. In comparison to the data from the Village HH Master list, the results of the Sample Household Interview in Table 6 above shows that the average HH income for the five villages is above the 2009/2012 poverty line. The data shows that 12% of the sample HHs are poor, 16% are middle income level and 72% are found to have income above the 2009/2012 rural poverty line.

34. Considering the above, there are indications that poverty is more prevalent in Ban Chantai and Ban Faen and among the Lao, Lao Lue, Khmu Rok, Hmong and Phunoi ethnic groups.

35. Ethnic Minorities: The villages have a total of 1,212 households (HHs) composed of 12 different ethnic groups. Of the 1,212 HHs, 559 HHs (46%) belong to the Lao-Tai Ethno-Linguistic Group with 6 specific ethnic groups (Lao/Lao Loum, Tai Lue, Tai Phuan, Tai Daeng and Tai Dam); 393 HHs (32%) are Mone Khmer Ethno-Linguistic Group with 3 ethnic groups (Khmu, Khmu Rok and Khmu Ou); 218 HHs (18%) are Hmong lu-Mien with 5 ethnic groups (Hmong, Hmong Dam, Hmong Khao and Phunoi); and 42 HHs (3%) Tibeto-Chinese of Phunoi ethnic group.

36. Considering the diverse ethnic and sub-ethnic groups within the subproject coverage, The Subproject is classified under Category B and an Ethnic Minority Development Plan (EMDP) (Annex 10) and Gender Action Plan (GAP) (Table A7-21 in Annex 7) are developed to specify strategies and plans for the equal representation, involvement and benefits of ethnic minority groups and women in subproject activities.

4.4 Land Use

37. While irrigated agriculture can take place in lowland areas and valley floors, hilly areas were previously heavily forested and subject to a level of shifting cultivation that probably did not threaten the integrity of forest reserves. However with increases in population and economic activity, the pressure on land subject to shifting cultivation has intensified, leading to a search for more sedentary forms of land use. The GoL's Strategy for Agricultural Development places emphasis on sustainable production patterns, stabilization of shifting agriculture, adapted to the specific socioeconomic and agro-ecological conditions in each region³. For the Northern Highland Zone, where the project is situated, the issue of forest depletion from intensified shifting cultivation is highlighted. The current transition from subsistence based systems to market orientated systems is also recognized. Agricultural policies and measures to stabilize shifting cultivation are to have a greater social and environmental orientation, and to strengthen the agriculture and natural resources sector's resilience to climate change.

38. A further strategic vision on integrated watershed management (IWSM) is founded on the cause-impact linkage between land use practices in upper watersheds and their impacts on water downstream, and formed the basis of a "landscape continuum planning framework"

³ Ministry of Agriculture and Forestry, Lao PDR (2010), Strategy for Agricultural Development 2011 to 2020: Sector Framework, Vision and Goals Agriculture and Forestry for Sustainable Development, Food and Income Security. Vientiane.

developed by the Ministry of Agriculture and Forestry (MAF), which translates the IWSM into local level operational procedures. Participatory tools for planning that leads to improved and more sustainable land use include Agro-ecological zoning and participatory land use planning, preventing conflicts among land and resource users. The combination of the implementation of government policy in the uplands and developing markets has accelerated the transition from traditional livelihoods towards more productive and cash crop oriented agriculture systems. Besides the implementation of government policy and market development, changes to sustainable land use patterns also require assurance of security of land tenure for rural households. A detailed analysis of constraints and opportunities for sustainable upland development and the role of land use planning and the development of zones for appropriate land uses has been undertaken as part of the PPTA and will guide support to land use planning to be undertaken during the sector project.

39. However changes in the overall land-use patterns have taken place more rapidly in recent decades, featuring a reduction in cover and degradation in the quality of the natural forest with a decline of 27% in area and the unsustainable extraction of timber and non timber forest products (NTFPs). In the past 4-5 years, growing demand for land from neighboring countries has attracted investors either through contract farming and foreign direct investment (FDI) in plantations such as concessions for rubber, sugar, and cassava production. While FDI should have positive impacts in terms of capital, technology transfer, and market access, such investments can also be a threat to biodiversity and long term integrity of soil cover, as well as unfavorable for local smallholders. This added pressure on land resources has further undermined smallholder access to their basic productive resource and in some instances, has contributed to further poverty.

4.5 Unexploded Ordinance

40. Data on bombs dropped by US forces between 1968 and 1972 is available from the National Mines Regulatory Authority and has been reviewed. No sites occur within or around the Nam Oun Irrigation weir site or command area. Records on any ordinance arising from ground fighting or from bombings by Southern Vietnamese, Lao or Thai air forces, are not available. However, on initial consultations respondents report no known occurrence of unexploded ordinance in the vicinity of the towns, or knowledge of ground or air strikes from which items of unexploded ordinance may remain.

5. Anticipated Environmental Impacts and Mitigation Measures

5.1 Method of Assessment

41. Potential impacts have been assessed by means of site visits, discussions with local authorities and beneficiaries and the use of secondary sources of information. This section summarizes the potential environmental impacts and required mitigation, which is incorporated into the Environmental Management Plan prepared for this subproject.

5.2 Environmental Impacts Related to Location

42. This subproject involves physical changes through rehabilitation works within the existing corridor of impact and access. It comprises the combination of i) a new weir construction, ii) improvement of right main canal (RMC) with related canal structures, and iii) improvement of left main canal (LMC) with related canal structures. As no substantial widening of the canal network is planned, no permanent restrictions on the movement of people and animals are likely. At present, not all canals in the network are lined, and prone to substantial seepage losses, which will be significantly reduced by the proposed improvements. Surplus water flows into streams at the periphery of the network. With

reduced seepage losses, more water will flow into these streams, however this is not likely to significantly affect the receiving waters, either positively or negatively.

43. The feasibility study design for these improvements does not much lead to requirements for acquisition of private assets. At feasibility study stage, the rehabilitation works of this subproject will result in: i) Loss of agricultural land of about 900 sqm owned by 6 AHs for whom this would represent a loss of 1.4% of their total productive land. There are no severely AHs losing more than 10% of their productive land; ii) No loss of crops and trees; iii) No loss of residential land, iv) No loss of primary and secondary structures, v) No relocation of households, vi) No loss of common property; and vii) One affected vulnerable household.

44. There are no areas of special ecological or biodiversity significance in or around the command area or within the catchment. Local communities confirm that buildings or artefacts of cultural significance do not occur in the subproject area and that no fighting took place during the years of conflict that may have led to the placing of military ordnance in the subproject area.

5.3 Environmental Impacts Related to Construction

45. Impacts related to construction will be temporary in nature, and can in most cases be mitigated. Mitigation measures are listed in the EMP which is to be included in the bidding documents for contractors, so that the cost of compliance with the mitigation can be included in the bid price.

46. Excavation work, to prepare canals for the installation of lining and of borrow areas will release silt, except when works take place during dry conditions. However if the works are controlled, quantities will be small, and will either be carried away by the irrigation water when the scheme is completed, or will settle on roads, paths and fields where it will not cause a problem. The use of silt fences will probably not be necessary for canal lining operations, but may be justified at borrow sites, if there is a risk of releasing significant quantities of silt from these. Mitigation of any risks of silt runoff will be achieved by (i) the placement, by the Contractor, of a site supervisor for all excavation work, (ii) confining excavation operations to the dry season (iii) use of silt traps where warranted, according to instructions from the construction supervisors and (iv) disposal of spoil from excavation works at sites approved by the construction supervision agency. To the extent possible, spoil should be used as fill, for example backfilling of culvert walls.

47. Construction operations may also involve the temporary closure of irrigation systems. Because construction will take place mainly during the dry season, this may have significant impacts on crops and livestock and on local livelihoods. In some situations this can be mitigated by the use of temporary diversions, either in channels or by the use of flexible pipes and pumps where necessary, however it is unlikely to be feasible to maintain full irrigation flows while the works are taking place. User communities will also be involved in scheme planning and construction, ensuring that local farmers are aware of the construction schedule will further mitigate the effects of temporary closure.

48. Excavation works will also release dust, which will be a potentially significant nuisance where it takes place close to peoples' homes. Where excavation operations carried out during dry and windy weather are within 50m of an occupied dwelling, excavated sites should be sprayed with water to control dust release. The operation of plant is not expected to cause a significant increase in air pollution, as most construction tasks are likely to involve hand labor. Only light plant such as cement mixers and water pumps are likely to be used.

49. Similarly, as most construction will involve hand labor or small plant, noise nuisance is not expected to be significant. The location of the new weir is about 2 km away from the nearest village.

50. Temporary use of land, including the construction of a temporary track for vehicular access to the weir site, will receive compensation in the form of rents payable during scheme construction period and land will be re-instated in accordance with the RF.

51. The proposed of the temporary vehicle access track has yet to be identified. Due to the relief in the area, it is likely that some significant earthworks will be involved in constructing the track from the nearest road head. Spoil from earthworks must be re-used to the extent possible, provided to local users for re-use, stockpiled for use when the site is reinstated, or disposed of at a suitable location approved by the supervising engineers. On completion of the works the track should be reinstated in accordance with the wishes of the affected landowners.

52. While the Contractor will be encouraged to engage local people for the works, some skilled workers and possibly supplementary labor will need to be brought to the site from elsewhere in Lao PDR. These workers are likely to be accommodated in buildings rented by the Contractor, though temporary accommodation may also be built. Interactions with local residents can potentially lead to the spread of communicable diseases, or incidences of disharmony, and temporary toilet facilities can release raw sewage. These potential effects can be avoided or mitigated by (i) consultation with local people on acceptable areas for siting of facilities, (ii) installation of suitable toilets such as pit latrines and grey water drainage facilities such as soakage pits (iii) arrangements for collection of solid waste, (iv) briefing of workers and awareness raising of the local population on dangers of communicable diseases and (v) assignment of responsibility for worker and local peoples' welfare to a senior member of the Contractor's staff.

53. Some construction operations, including excavations and use of plant and the use and handling of fuels or other hazardous materials will pose a small safety risk to workers and to local people. These will be mitigated by the allocation of responsibility for site safety to the Contractor's site supervisory staff, who will ensure that all reasonable safety measures, such as use of safety clothing and equipment and placing of hazard warnings are taken.

54. Fuels and hazardous materials may also cause soil contamination or pollution of waterways. These and safety hazards will be prevented either by exclusive use of commercial fuel providers operating nearby, or by the storage of fuel in designated, supervised areas that are clearly marked and have restricted access. These areas should be at least 20m from the nearest watercourse. All machine waste will be deposited in sealed containers and removed from the site for recycling or safe disposal as appropriate.

5.4 Environmental Impacts Related to Operation

55. Agriculture practiced by beneficiary farmers will intensify in areas beyond the current effective command area. This will bring significant long term benefit to users. Users who are not currently using water pumps to obtain irrigation water will begin to practice irrigated agriculture, or to resume irrigated agriculture if they were in areas where irrigation water was formerly available. Any increase in the use of agro-chemicals, particularly pesticides, can affect plant, animal and insect populations and lead to loss of biodiversity. Adverse effects may occur as a result over-application of agro-chemicals, poor or unsafe storage, and improper handling including washing of equipment used to dispense chemicals in rivers or irrigation channels. Since groundwater is not used for drinking water in the visited sub-projects, potential groundwater contamination is not a priority issue and will be also reduced through the proposed mitigation measures. A tendency to apply excessive agro-chemicals,

and risks associated with poor storage and handling (sometimes based on misconceptions, such as the belief that chemicals in powder form do not leave lasting residues on utensils) can be mitigated by the promotion of sustainable land use practices such as (i) the use of organic based pest control methods, informed use of mineral fertilizers, (ii) promotion of the concept of integrated pest management, focusing on cost effective and environmentally friendly or benign pest management techniques and (iii) emphatic discouragement of the use of persistent pesticides through awareness raising and training on the proper use of agro-chemicals through PAFO and DAFO. In this connection it is noted that rapid expansion of plantations, particularly banana and rubber, has taken place in the project area over recent years. There is an extensive existing banana plantation adjoining the command area. Management of the banana plantation is chemical intensive, and follows banana culture methods now used extensively in Oudomxay and other northern provinces. Invariably, industrial banana plantations involve foreign investment and management, and a temporary lease covering one rotation of banana plants for a limited number of years. Agreements with landowners typically do not include removal of plastic pipes and rubbish left on site following banana cultivation. A recent study has reviewed the negative impacts of banana plantation cultivation has highlighted potential issues related to soil damage, effects of abandoned plastic piping and other materials, and of intense agro-chemical use.

56. Long term effects on the aquatic ecosystem will result from the expansion of the command area, the greater obstruction of fish movements from construction of permanent weirs, and effects of any increased use and improper handling of agro-chemicals. While the increase of the extent of paddy fields which are seasonally inhabited by fish, molluscs, crustaceans and aquatic insects and the improved water storage resulting by the replacement of the weir will increase the extent of the aquatic habitat, aquatic ecology and in particular fish migration will be impaired, thus also impacting sustainable livelihoods through reduced fish stocks. This will be mitigated by a standard design of weirs, which integrates a fish ramp as a passage for aquatic species. Increased use of agro-chemicals will also potentially have effects on the long term health of the aquatic ecosystem, again to be mitigated by promotion of organic based pest control methods, use of integrated pest management and related capacity development measures as described in the preceding paragraph.

57. The intensification of agriculture will also lead to greater use of fertilizers. Surplus fertilizer, such as nitrogen compounds that are not taken up by plants or bound in the soil will raise the nutrient status of the water released at the outflow of the system, increasing the chemical oxygen demand of the water. If allowed to accumulate, or if insufficiently diluted when released into the receiving waters, the increased nutrient status may affect the aquatic ecosystem and lead to eutrophication and algal blooms. This risk can be reduced by information and training of farmers in informed use of mineral fertilizers, so that they are applied at optimal levels. This should be provided in the context of good agricultural practices, so that farmers can gain a basic understanding of nutrient needs in relation to soil type and site characteristics, leading to sound decisions about fertilizer type and dosage rate prior to planting and also in response to signs of growth deficiencies. Besides reducing environmental risks, this has the added advantage of reducing farmers' input costs.

58. The incidence of waterborne diseases in local communes is significant. Irrigation water is used as a supplementary source for domestic purposes, and this practice will increase after construction when the more water may be flowing through the system. Risks will come both from waterborne pathogens, and from any increase in ponding that may result from wastages, as ponds provide a habitat for insect vectors of disease. These risks can be mitigated by (i) promoting improved operation and maintenance of the schemes as part of training and support to water user groups so that blockages and ruptures causing water logging are rapidly repaired, and (ii) raising awareness, during training and support to water

user groups, on the hazards posed by poor sanitation, water logging and use of untreated irrigation water for drinking.

59. Competition with other water uses. Population growth and increasing incomes will place increasing demands for domestic water supply, as well as for irrigation. This becomes critical during the dry season, and in particular when dry years occur. It is important to allow a minimum stream flow to maintain the aquatic ecosystem as well as meet the demands of users. Hydropower is a further potential use of water, although this use does not compete as such (because water is returned to the stream course) but can modify flows, particularly for systems which use dams, to reduce the variability of flows over the annual cycle. At present, the water for domestic use is obtained from a variety of sources including open wells and gravity fed supplies from streams. Water from the irrigation canals is used for washing and in some cases, drinking and cooking. For the purposes of design, a minimum flow has been estimated (see para 21) although there is an absence of data on dry season flows and their variability from year to year. However, should plans be made to develop intakes for rural water supplies on the streams that feed the irrigation systems, improved data is important as well as formal communication and cooperation to resolve potential conflicts. Improved data could be obtained by systematic recording of water levels in the reservoir. Should a rural water supply scheme be proposed in the area, it will be subject to environmental assessment under the Environmental Protection Law (1999) and EIA Decree (2010) and also the Water and Water Resources Law (1996). The latter is under revision to reflect recent institutional changes and growing use of water for hydropower and irrigation. Article 11 of the draft revised version of the Water and Water Resources Law states that "the allocation of water sources and catchments shall be based on surveys and on data collected, in order that water and water resources are distributed, managed and used effectively and in accordance with their purposes". However, as yet the draft does not provide detail on water resource allocation, or means of arriving at allocation decisions. Future users such as water supply schemes will be obliged under law to assess the resource and the issue of allocation of water to different uses. This will of necessity involve greater data on stream flows, gathering of further data such as downstream uses and discussion on options such as limits on use during the dry season.

60. Also with increasing population and use of irrigated agriculture, the demand for irrigation water will grow and potentially lead to conflict among users. This can be substantially reduced by collaborative action among users to optimize the use of irrigation water and to ensure that allocations to all users, including those situated at the periphery of the network, are fair.

61. As with all irrigation schemes, soil salinization may occur as a result of the accumulation of salts that are dissolved in the irrigation water, and upward transport of salt deposits in lower soil horizons in the case of over-irrigation. These risks are low for the scheme, as any salt not taken up by growing plants will be subject to natural flushing by rainwater in the wet season, and users consulted during the field visits confirmed that over-irrigation rarely takes place. Over-irrigation is prevented both by the relative shortage of irrigation water towards the edges of the command area, by water regulation for areas closer to the primary canal. While salt build-up may occur in these areas, risks of widespread build-up over irrigated fields are low.

62. Risks of increasing erosion and scour are minimal. Land either side of the canal alignment is gently sloping and not readily prone to erosion. In critical areas in the watersheds (e.g. river banks), bio-engineering concepts are used to design measures to stabilize environments near the infrastructure. There may be some risk to water flows by the deposition of material excavated for house building or other construction purposes, or from dumping of solid waste into the system.

5.5 Key Data Gaps

63. Only present day data is available on stream flows in the Nam Ounriver. The amount of water than can be extracted for irrigation use without depleting minimum flows to the extent that they cause the lower reaches of the steam to dry up and damage the aquatic ecosystem, are not known. For reliable planning on levels of permissible extraction, the flow levels in dry years need to be known, and dry years appear to recur on a cycle of between 6 to 10 years approximately. It is therefore not practicable to await long term flow data before stream construction. However, systematic recording of flow rates prior to, during and after construction will serve to guide water users as to maximum permissible extraction rates.

5.6 Uncertainties

64. The principal uncertainty related to this initial environmental examination relates to the lack of information over stream flows and its fluctuation within and between years. Other, though less important uncertainties relate to (i) the effectiveness of the operation of the Water User Group (WUG) for the scheme, and (ii) the effectiveness of extension on the use of pesticides, fertilizers and improved agriculture techniques to take place during implementation and (iii) the effectiveness of land use planning in protecting or enhancing the integrity of the catchment as well as safeguarding livelihoods for people living in and around the subproject area.

5.7 Global, Transboundary and Cumulative Impacts

65. The controlled use of irrigation water and the use of potentially harmful chemicals in pest control are, to some extent, transboundary issues. Risks of the use of harmful substances or excessive use of less harmful substances in irrigated agriculture are heightened by ready availability from neighboring countries. In particular, Chinese products that provide no information on active ingredients, hazard warnings or instructions in Lao and English are regularly purchased and used in the subproject area. These risks can be reduced by improved regulation of the agro-chemical industry within China, and improved control over the trading of these over the China / Lao PDR border, as well as by improved information collection on agrochemicals available on the local market, and dissemination on their proper use.

66. Irrigation schemes always cause some reduction in downstream water flows, due to increased losses to evapotranspiration. For a small scheme such as the Nam Oun subproject, the transboundary impact is minimal but any successful promotion of efficient use of irrigation water will both minimize wastage in the scheme itself and also provide a source of knowledge for adoption by practitioners of irrigated agriculture in the neighboring area.

67. Similarly, any improvements in managing irrigation, use of agro-chemicals and in group capacities for co-operative action will have a potentially cumulative impact in the area, by contributing to a build-up of knowledge and skills among communities who interact with neighboring communities. The spread of this knowledge and capability can be enhanced by organizing visits of by new WUGs to villages where WUGs have been in place for some years and have shown capabilities. These may be those formed earlier during NRIDP or under preceding projects. Appropriate plans for such visits can be made by liaising with the PPO in the project provinces to identify stronger WUGs, and arrange consents for the field visits to take place.

6. Analysis of Alternatives

68. The Nam Oun Irrigation Subproject is one of a number of candidate irrigation subprojects selected for the NRIDP under additional financing. Alternative subprojects are

also other irrigation schemes. The Nam Oun Irrigation Subproject has been selected on the basis of the number of beneficiaries, the relatively advanced stage of concept design and its situation within Houn district, Oudomxay province, which has been identified as a NRIDP target area.

69. The existing irrigation system is gravity fed, utilizing a weir and canal network. There may be no other alternative water sources than Nam Ounriver nearby. As a gravity fed scheme, it will be relatively simple to construct and maintain and inexpensive to operate. The use of a weir is necessary in order to provide sufficiently regular flows for irrigated agriculture to be feasible.

70. The “no project” alternative would, in this case, simply mean the substitution of the Nam Oun with an alternative scheme within Houn district or another project target area.

7. Information Disclosure, Consultation and Participation

7.1 Consultations and Information Disclosure during Subproject Design

71. Two public consultations/meetings were carried out for the preparation of the IEE document. The first consultation took place during the introductory meetings conducted at Chantai village on 24 February 2015, then at NamFen village on 25 February 2015. Mainly, the subproject information and participating district and scheme selection were discussed with the PAFO, DAFO officials and with the subproject villagers. The second consultation was organized on 14 May 2015 with representatives from the villages of Ban Nam Oun, Ban Fen, Ban Chantai, Ban Nongdinh and Ban Nathong which included the consultation for IEE.

72. Overall, the NRI-GIC consultation and public participation presented the following agenda and information about the proposed subproject. The presentations were followed by discussions to collect opinions from people who may be affected:

- Summary of the proposed works under the subproject;
- Summary of subproject objectives and likely positive and negative environmental impacts during the construction and operational phases;
- Any areas of concern that they may have during project implementation; and
- Acceptability of the proposed works to the public.

73. The attendance of the subproject beneficiaries during the consultations/meetings has been recorded. Attendance sheets are included as **Attachment 1**, and the Photos of the public consultations are presented in **Attachment 2**. Findings of the consultations are summarised in **Attachment 3**. The consultations confirmed the desire for subproject components including improved, permanent headworks, WUG formation, catchment management planning, training/awareness raising on use of pesticides, improvements of the irrigation canal system, training in high yield varieties as part of training in irrigated agriculture and gender awareness raising and related training, Participants also called for restrictions on imports of chemical fertilizers and herbicides.

7.2 Further Information Disclosure

74. This draft IEE will be presented to the village officials and the subproject beneficiaries, to district administrations and to the PAFO and PONRE in Oudomxay again to invite comment from the public in accordance with the EIA Decree No. 112/PM, dated 16 April 2012. Copies will be left for review for a period of 30 days.

75. During construction and operation, communities in and around the subproject area will kept informed of construction activities that are likely to cause noise and dust nuisance, or disruption to irrigation flows or roads and pathways.

8. Grievance Redress Mechanism

8.1 Requirements

76. These mechanisms are defined in the Project's Resettlement Framework aiming at the participation of APs throughout the various stages of LARC planning and implementation of subprojects. The information for APs about entitlements, compensation and supportive mitigation options and grievance mechanisms shall be provided by the Project's relevant agencies and committees. Extensive meetings with APs also allow the implementing agencies to identify the needs and preferences of APs pertaining to compensation and rehabilitation assistance and to reduce any negative potential impacts caused by the proposed subproject.

77. In terms of grievance redresses, the villagers have been briefed about rights to grievance and the procedures during feasibility and detailed design stages in case LARC items would become a subproject related issue. This shall be repeated at the start of construction phase. The APs may present their complaints to the concerned local administrative officials and resettlement committees. The complaint can be filed first at the village level and can be elevated to the highest or provincial level if the APs are not satisfied with the decisions made by the village and district levels/committees. APs will be exempted from all taxes, administrative and legal fees associated with their claims and grievance redress.

8.2 Grievance Approach

78. The main steps outlined below serve as an orientation for the grievance main approach. Additional steps can be incorporated as appropriate. For each step details shall be described, agreed and explained to both resettlement responsible committees and the residents of affected villages.

79. In general, APs are entitled to lodge complaints regarding any aspect of the preparation and implementation of this LAC Report without prejudice to their right to file complaints with the court of law at any point in the process. The implementing agencies will shoulder all administrative and legal fees that will be incurred in the resolution of grievances and complaints.

80. It is recognized that members of AHs might not have writing skills or ability to articulate their grievances verbally, however, then AHs are encouraged to seek assistance from the subproject and/or nominated local non-governmental organizations and/or other family members, village heads to have their grievances recorded in writing and to have access to the LARC documentation, and to any survey or valuation of assets, to ensure that where disputes do occur all the details have been recorded accurately enabling all parties to be treated fairly.

81. All complaints and resolutions will be properly documented by the PPO/DCO and be available for (a) the public and (b) review for monitoring purposes.

Table 2: NRIDSP Main Steps of Grievance Mechanisms

Serial No.	Procedural Steps
1	In each village existing mediation committees would be the first contact for APs to address their concerns. It is recommended that in agreement with villages either this committee would be responsible for LARC issues or the village would establish a project related LARC committee. The village shall decide about its community internal approach.
▼	
2	APs would address their complaints to committee/s that would have to react within a defined time (5 days to be defined by village) after submission of the complaint.
▼	
3	In case provided responses are not satisfying to affected people the grievance applications would be forwarded to the district council for resolution within a defined time (5 days) from the date of filing the complaint with this court.
▼	
4	In case APs are still not satisfied next steps could involve provincial authorities that would have to issue a final decision within a defined time (10 days).
▼	
5	If subproject APs are still not satisfied with the response given or decisions made, the complaint can be elevated at national level either to the national court, if legal decision at provincial level will require this, or to the NPMO which is to be established by the DOP through which the MAF will be responsible for the overall project management for final clarification in this matter within 15 days.

9. Environmental Management Plan

9.1 Responsibilities for Environmental Management

82. Table 3 describes the mitigation measures required for design, construction and operation of the scheme, as well as the cost and responsibility allocation arrangements. Overall responsibility for implementing the Environmental Management Plan rests with PAFO, which during design and construction will be supported by the provincial project office (PPO) in Oudomxay province, and during operation will involve co-operation with scheme users. Responsibility for incorporating mitigation into scheme design rests with PAFO, supported by the project implementation consultants who will have appropriate specialists based at the national project management office (NPMO) in Vientiane.

83. Responsibility for carrying out environmental mitigation of construction impacts again rests with the PAFO, as the agency responsible for construction supervision. However, the EMP should form part of the works contract documentation so that the contractor in each case incorporates the cost of mitigation into the bid price, including provision of staff and equipment necessary to carry out all mitigation tasks in full.

84. During scheme operation, responsibility for mitigation rests primarily with the scheme users, supported by PAFO.

Table 3: Environmental Management Plan Summary

Potential Environmental Impact	Mitigation measure(s)	Cost Allocation	Responsibility for Implementation
Pre-Construction Stage			
Safety Hazards to workers and local people, and effects of temporary worker populations in the area	Preparation of plans by the Contractor, allocating responsibilities for safety, health and welfare to senior staff; preparation of plans for first aid and emergency procedures; preparation of plans for satisfactory accommodation of workers, and of information and instruction to be disseminated to workers regarding risks of communicable diseases.	Construction Cost	Contractor
Effects on homes and property	Completion of land acquisition and compensation tasks as detailed in the Resettlement Framework for the sector project	RF budget	NPMO / Consultants
Effects of the construction of a temporary vehicle access track	Selection of the alignment of the access track to minimize extent of earthworks necessary; securing of agreements with affected landowners	Design task (negligible cost)	PPO / DCO
Possible social conflicts, noise and air pollution due to site selection for work camps.	Proper site selection, observing criteria which primarily protect the general public. Observe a minimum distance (buffer zone) between camp site and nearest residential area. Employ mediators to curb social conflicts.	Construction Cost	Contractor
Environmental problems associated with location/selection and abandonment of quarry sites, such as erosion, landslides, sedimentation, soil contamination, damage or loss of habitats and biodiversity.	(i) Preparation of site management plan, indicating rehabilitation options and requirements to observe environmental safeguards, especially for adjacent water resources and crop lands. (ii) Contractor must present a decommission plan for each quarry site, to be approved by the Engineer.	Construction Cost	Contractor
Impacts from Construction			
Effects associated with the extraction of materials	(i) re-use of excavated material to the extent practicable, (ii) obtaining materials from licensed quarries and (iii) forming appropriate agreements with landowners for borrow sites, and landscaping works to used borrow sites, in accordance with the agreements made with landowners.	Construction Cost	Contractor

Potential Environmental Impact	Mitigation measure(s)	Cost Allocation	Responsibility for Implementation
Release of silt	(i) Adequate supervision of the works, (confining excavation works to the dry months, (iii) discretionary use of silt traps where warranted and (iv) careful placing of excavated material	Construction Cost	Contractor
Temporary closure of the irrigation system	Use of temporary diversions using pipes and pumps where necessary; involvement of scheme users in planning of the works	Construction Cost	Contractor
Dust generation and noise nuisance	(i) Wetting of excavation sites and stockpiled material during dry and windy weather, when within 50m of an occupied dwelling (ii) Excessive noise from construction activities is not expected to be an issue, since the works are not located near residential areas. Where there is excessive noise disturbance, agreement shall be made with local communities on restriction of working hours	Construction Cost	Contractor
Use of land for storage and as works depots	Compensation to landowners according to the LARP and restoration of land to former condition or better, according to agreements formed with landowners	Construction Cost	Contractor
Effects of construction of temporary vehicle access track	(i) careful supervision of earthworks to ensure minimal damage to farmland and vegetation, (ii) reuse of surplus spoil, distribution to users in or near the subproject area, or disposal at a site approved by the PAFO / PPO.	Construction Cost	Contractor
Effects of temporary worker populations	(i) consultation with local people on acceptable areas for siting of facilities, (ii) installation of suitable toilets such as pit latrines and grey water drainage facilities such as soakage pits (iii) arrangements for collection of solid waste, (iv) briefing of workers and awareness raising of the local population on dangers of communicable diseases and (v) assignment of responsibility for worker and local peoples' welfare to a senior member of the Contractor's staff.	Construction Cost	Contractor
Safety hazards to workers and local people	Allocation of responsibility for site safety to the Contractor's site supervisors staff, who will ensure that all reasonable safety measures, such as use of safety clothing and equipment and placing of hazard warnings are taken.	Construction Cost	Contractor
Storage, handling and use of fuels and other hazardous materials	Storage of fuels and any other hazardous materials at prescribed secure locations. Responsibility of security and tidiness of store and operation of fuel refilling equipment to be allocated to designated personnel.	Construction Cost	Contractor

Potential Environmental Impact	Mitigation measure(s)	Cost Allocation	Responsibility for Implementation
Impacts from Operation			
Effects of intensified agricultural production	(i) instruction in good agricultural practice including purchase and use of pesticides, promotion of the informed use of mineral fertilizers, promotion of the concept of integrated pest management, and emphatic discouragement of the use of persistent pesticides. (ii) Enforcement and monitoring of proper use of fertilizers and pesticides	Included in Capacity Building budget (for training) and associated investments	PPO/DCO WUG (Head of Production Group) NPMO/Consultant for Training
Obstruction of water flows in the canals from sediment or other deposits	Support to water user groups so that users discourage or prevent any placing of material or solid waste in the canals.	Included in associated investments	PPO/DCO
Competition for use of irrigation water and with other water uses	(i) Reliable collection of information on water levels in the canal system, to enable sound planning of further water use and distribution among WUG. (ii) Mechanism developed for formal communication to resolve conflicts between upstream and downstream water users. (iii) Possible management measure during dry years when flows run low, ensuring environmental flow to maintain the riparian ecosystem.	Included in Capacity Building budget (for training) and associated investments	PPO/DCO WUG (Head of water management group) NPMO/Consultant for Training
Collapse of canals	Routine and periodic maintenance, according to a well designed and adequately resourced maintenance program	Included in associated investments	PPO/DCO WUG
Leaching of nutrients	Promotion of sustainable irrigated agriculture and soil management methods	Included in associated investments	PPO/DCO
Occurrence of water related diseases	(i) promoting improved operation and maintenance of the schemes through water user groups (ii) raising awareness on hazards posed by poor sanitation, water logging and hazard of using of irrigation water in the canal system for drinking.	Included in associated investments	PPO/DCO

9.2 Approach to Environmental Monitoring

85. Environmental monitoring will cover (i) compliance monitoring, to ensure that mitigation specified in the EMP is carried out to an adequate standard, (ii) community feedback to obtain views and information on relevant environmental parameters and (iii) water quality testing.

86. Water quality testing is necessary to detect any deterioration of water quality and in view of the fact that some scheme users use the scheme water as a supplementary source of domestic water supply, to ensure that it is not dangerous for that purpose although the hazards of using water in the canal system for drinking need to be made clear as part of awareness raising. Testing has therefore been designed to gauge suitability for irrigation, rather than for drinking water quality. In order to determine the safety of the water, it should be tested for levels of coliform bacteria, chemical and biological oxygen demand. The following parameters and limits are recommended:

Parameters	Maximum Value
Ph	5.5 - 9
Faecal Coliforms	<1,000 per 100 ml
Biological Oxygen Demand (20oC)	<25 mg/l
Chemical Oxygen Demand	<35 mg/l

87. Samples should be taken from behind the weir, within the canal system, and at a point downstream of the irrigation network. This should be done prior to, during and after construction, and taken to an appropriate laboratory for analysis.

88. Environmental pollution due the use of pesticides impacts in particular water quality of rivers and irrigation canals. Yet, measuring and analyzing pesticides in water samples is a highly sophisticated process, and thus the capacities and laboratories for such complex analyses are frequently missing. Therefore a simple and inexpensive method for indicating overall water quality is used. For improving water quality monitoring, a straightforward and low-cost assessment tool is to evaluate water quality by using macro invertebrates. It is a proven method in Europe and other countries and has been introduced in Lao PDR in 2014 by the Asia Foundation and FISHBIO for community based water quality monitoring. Ten communities in central Laos use the tool for assessing the possible impact e.g. from cassava and cement production, gold mining and small hydropower development. This method will be used for the water quality baseline assessment upstream and downstream of the planned irrigation systems before the construction, as well as annually during the operation phase.

Table 4: Environmental Monitoring Plan

Impact to be Monitored	Parameters	Location	Measurements	Frequency	Responsibilities
Design and Preconstruction Phase					
Level of pathogens in water for irrigation / domestic use	Ph; Faecal Coliforms; Biological Oxygen Demand (20oC) and Chemical Oxygen Demand	Selected sample sites in the command area	Collection of sample and laboratory analysis	Quarterly, approximately 12 months prior to construction	PPO/DCO
Overall water quality	Macro invertebrates	Sampling above and below the command area	Collection of sample and analysis	Once before construction	PPO/DCO/ Villagers
Health and safety and welfare of workers and the public	Compliance with EMP	All work sites / worker accommodation	Compliance	Once	PPO/DCO
Construction Phase					
Prevention of accumulation of excessive pathogens in water for irrigation / domestic use	Changes as perceived by irrigation scheme users	Participating villages	Consultations	To be decided by PAFO / PPO at the start of the works	PPO/ DCO
	Ph; Faecal Coliforms; Biological Oxygen Demand (20oC) and Chemical Oxygen Demand	Selected sample sites in the command area	Collection of sample and laboratory analysis	At two monthly intervals during the construction period	PPO/DCO
Adequacy of and effectiveness of the scheme: quantity of water; increases in crop yields; occurrence of disputes	Opinions of users	Participating villages	Consultations	To be decided by PAFO / PPO at the start of the works	PPO/DCO
Implementation of construction mitigation measures detailed above	Compliance	All work sites	Consultations	To be decided by PAFO / PPO at the start of the works	PPO/DCO

Operation Phase					
Prevention of accumulation of excessive pathogens in water for irrigation / domestic use	Changes as perceived by irrigation scheme users	Participating villages	Consultations	To be decided by PAFO / PPO at the start of the works	PPO/DCO
	Ph; Faecal Coliforms; Biological Oxygen Demand (20oC) and Chemical Oxygen Demand	Selected sample sites in the command area	Collection of sample and laboratory analysis	Quarterly	PPO /DCO/WUG
Overall water quality/ use of agro-chemicals	Macro invertebrates	Sampling above and below the command area and if warranted on selected sites in the command area	Collection of sample and analysis	Annually	PPO/DCO/ Villagers
Adequacy of and effectiveness of the scheme: quantity of water; increases in crop yields; occurrence of disputes	Opinions of users	Participating villages	Consultations	To be decided by PAFO / PPO at the start of the works	PPO/DCO
	Water flow monitoring	Water level behind the weir	Measurements	Continuously, by use of automatic water level meter and data logger	PPO/DCO
Capacity building / awareness raising choice, use, handling and storage of agro-chemicals	Types of agro-chemical purchased, standard of storage and handling, dosage levels	Participation	Observations and Consultations	Quarterly	PPO/DCO
Obstruction to water flows	Occurrence of sediment or other deposit in the canal system	Canal networks	Observations	Quarterly	PPO/DCO
Competition for use of irrigation water with other uses	Occurrence of new users e.g. water supplies / micro hydro schemes	Participating villagers	Observations and Consultations	As and when this may occur	PPO/DCO
Failures in routine maintenance (eg collapse of canals)	Collapse of canals and similar	Participating schemes	Observations	Quarterly	PPO/DCO

Occurrence of water related diseases	Increases / decreases in Incidence of water related diseases	Participating villages	Observations and Consultations with villagers and health workers	Quarterly	PPO/DCO
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10. Conclusion and Recommendation

89. The initial environmental examination process has found that the subproject will not cause significant negative environmental impacts. Potential negative impacts relate mainly to the construction phase and can be managed and brought to acceptable levels through the implementation of the Environmental Management Plan. No further environmental assessment is therefore required.

90. The subproject is therefore be classified as Category B according to the ADB's classification system. This refers to projects that are judged to have some adverse environmental impacts, but of lesser degree or significance than those for Category A projects.

91. It is recommended that the Environmental Management Plan is included in contract documentation for works contracts, and in agreements formed with water user groups. Emphasis should be placed on regular monitoring of stream water flows.

Attachment 1: Consultation Attendance Sheet (1/14)
23February 2015 at PAFO, Xay District, Oudomxay Province
Participated by the staff of PAFO, DCOs of Beng and Houn Districts

Attachment 1: Consultation Attendance Sheet (2/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
 Participated by the villagers of 169 persons (55 females) (1/6)
 (Ban Chan Tai, Ban Nathong, Ban Nongdieng)



Village consultation for subproject (ກຸ່ມປະຊາກອນທີ່ເຂົ້າຮ່ວມການປະຊຸມປະຊາກອນ) ກຸ່ມປະຊາກອນທີ່ເຂົ້າຮ່ວມການປະຊຸມປະຊາກອນ
 ວັນທີ (Date): 24/2/2015
 ສະຖານທີ່ປະຊຸມ (Location): ບ້ານໂຮງ, ບ້ານນາທອງ, ບ້ານນອງດຶງ

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ກຸ່ມເຜົ່າ Ethnic Group	ຜົນຜົນຜິດຊອບ Responsibility	ຈາກສາກສ່ວນ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຕົວ Contact address
1	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
2	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
3	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
4	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
5	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
6	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
7	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
8	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
9	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ກຸ່ມເຜົ່າ Ethnic Group	ຜົນຜົນຜິດຊອບ Responsibility	ຈາກສາກສ່ວນ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຕົວ Contact address
10	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
11	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
12	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
13	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
14	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
15	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
16	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
17	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
18	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
19	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
20	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
21	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
22	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
23	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
24	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
25	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
26	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ
27	ທ້າວ ສິນທິພອນ	ຊາຍ	ລາວ	ປະຊາກອນ	ນາໂຮງ	09092228	ບ້ານໂຮງ

Attachment 1: Consultation Attendance Sheet (3/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
 Participated by the villagers of 169 persons (55 females) (2/6)
 (Ban Chan Tai, Ban Nathong, Ban Nongdieng)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ໜ້າທີ່ຮັບຜິດຊອບ Responsibility	ຈາກອາກາດ Organization	ເບີໂທ	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຕົວ Contact address
28	ທ້າວ ພົມມະ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
29	ທ້າວ ພົມມະກອງ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
30	ທ້າວ ຈຸນຸນ	ຊາຍ	ຊົນເຜົ່າ	ທ້າວ ພົມມະກອງ	ກົມໂທ		ບ້ານ
31	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
32	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
33	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
34	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
35	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
36	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
37	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
38	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
39	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
40	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
41	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
42	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
43	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
44	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
45	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
46	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ໜ້າທີ່ຮັບຜິດຊອບ Responsibility	ຈາກອາກາດ Organization	ເບີໂທ	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຕົວ Contact address
46	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
47	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
48	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
49	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
50	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
51	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
52	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
53	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
54	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
55	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
56	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
57	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
58	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
59	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
60	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
61	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
62	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ
63	ທ້າວ ດາວ	ຊາຍ	ຊົນເຜົ່າ	ປ/ຈ	ກົມໂທ		ບ້ານ

Attachment 1: Consultation Attendance Sheet (4/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
 Participated by the villagers of 169 persons (55 females) (3/6)
 (Ban Chan Tai, Ban Nathong, Ban Nongdieng)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜິດສິດບຸກຄົນ Responsibility	ຈາກພາກສ່ວນ Organization	ເມືອງ City	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
64	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
65	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
66	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
67	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
68	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
69	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
70	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
71	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
72	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
73	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
74	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
75	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
76	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
77	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
78	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
79	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
80	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
81	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ

5

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜິດສິດບຸກຄົນ Responsibility	ຈາກພາກສ່ວນ Organization	ເມືອງ City	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
82	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
83	ມ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
84	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
85	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
86	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
87	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
88	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
89	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
90	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
91	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
92	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
93	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
94	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
95	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
96	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
97	ນ. ພິດໄຊ	ຜູ້	ຊົນ	ຈັດ ໓	ບັນຈັດ		ໂຮງໄຊ
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Attachment 1: Consultation Attendance Sheet (5/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
Participated by the villagers of 169 persons (55 females) (4/6)
(Ban Chan Tai, Ban Nathong, Ban Nongdieng)



Lao People's Democratic Republic
MINISTRY OF AGRICULTURE AND FORESTRY
DEPARTMENT OF PLANNING AND COOPERATION
NORTHERN RURAL INFRASTRUCTURE DEVELOPMENT SECTOR
PROJECT ADB Grant NO. 0235-LAO (SF)
Unit 7, Ne Rhu Road, Ban Phonexay, Xaysettha District, Vientiane Capital,
Lao PDR Telefax: +856 21 990 249 Email: npmo.nn@gmail.com

Village consultation for subproject (ກຸງປະຊຸມປົກສະຫວີ).....

ວັນທີ (Date):.....

ສະຖານທີ່ປະຊຸມ (Location):.....

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜົນຜົນຜິດຊອບ Responsibility	ຈາກສະຫວ່ອນ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຜົນຜົນ Contact address
98	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ ສາມ
99	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ ສາມ
100	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ ສາມ
101	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ ສາມ
102	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ	96100241	ບາງກວນ
103	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
104	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
105	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
106	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜົນຜົນຜິດຊອບ Responsibility	ຈາກສະຫວ່ອນ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຜົນຜົນ Contact address
107	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
108	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
109	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
110	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ	95066072	ບາງກວນ
111	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ	95094452	ບາງກວນ
112	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
113	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
114	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
115	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
116	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
117	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
118	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
119	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
120	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
121	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
122	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
123	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ
124	ທ້າວ ສິນ	ຊາຍ	ກຸງ	ປ/ຈ	ບາງກວນ		ບາງກວນ

Attachment 1: Consultation Attendance Sheet (6/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
Participated by the villagers of 169 persons (55 females) (5/6)
(Ban Chan Tai, Ban Nathong, Ban Nongdieng)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈາກອາກາດ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
125	28 ມ. ບົວ ສິວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ບົວ ສິວມ
126	29 ທ. ສິວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ສິວມ
127	30 ທ. ທິດາສີ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ທິດາສີ
128	31 ທ. ຊິງ ຊິງ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ຊິງ ຊິງ
129	32 ທ. ພຣະມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ມ. ທຣ		ພຣະມ
130	33 ທ. ສິ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ສິ
131	34 ທ. ງາວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ງາວມ
132	35 ທ. ສາທາຍ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ສາທາຍ
133	36 ທ. ບຸນ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ບຸນ
134	37 ທ. ບຸນ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ບຸນ
135	38 ທ. ບຸນ ສິວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ບຸນ ສິວມ
136	39 ທ. ສິວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ			ສິວມ
137	40 ທ. ເພັດ	ຊາຍ	ກຸຣິມ	ປ/ຈ			ເພັດ
138	41 ທ. ເຈົ້າ	ຊາຍ	ກຸຣິມ	ປ/ຈ			ເຈົ້າ
139	42 ທ. ວົງ	ຊາຍ	ກຸຣິມ	ປ/ຈ			ວົງ
140	43 ທ. ສິນທິ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ສິນທິ
141	44 ທ. ບຸນ ສິວມ	ຊາຍ	ກຸຣິມ	ວຽກ ສຳນັກງານ	ຈັມໂກດ	91209745	ບຸນ ສິວມ
142	45 ທ. ຈິນທິ ວົງ	ຊາຍ	ກຸຣິມ	ມ. ທຣ	ມ. ທຣ	96506973	ຈິນທິ ວົງ

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ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈາກອາກາດ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
143	46 ທ. ສິນທິ	ຊາຍ	ກຸຣິມ	ວຽກ ສຳນັກງານ	ຈັມໂກດ	9229095	ສິນທິ
144	47 ທ. ບຸນ ສິ	ຊາຍ	ກຸຣິມ	ວຽກ ສຳນັກງານ	ຈັມໂກດ	909988554	ບຸນ ສິ
145	48 ທ. ຊິງ ພຣະມ	ຊາຍ	ລາວລຸ່ມ	ມ. ທຣ	ຈັມໂກດ	93492531	ຊິງ ພຣະມ
146	49 ທ. ສາທາຍ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ສາທາຍ
147	50 ທ. ສິວມ	ຊາຍ	ລາວລຸ່ມ	ມ. ທຣ	ຈັມໂກດ		ສິວມ
148	51 ທ. ພຸນ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ພຸນ
149	52 ທ. ພຸນ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ພຸນ
150	53 ທ. ສິວມ ສິນທິ	ຊາຍ	ກຸຣິມ	ມ. ທຣ	ມ. ທຣ		ສິວມ ສິນທິ
151	54 ທ. ຊິງ ພຸນ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ຊິງ ພຸນ
152	55 ທ. ບຸນ ສິ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ມ. ທຣ		ບຸນ ສິ
153	56 ທ. ສິນ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ມ. ທຣ		ສິນ
154	57 ທ. ພຸນ ສິ	ຊາຍ	ກຸຣິມ	ປ/ຈ			ພຸນ ສິ
155	58 ທ. ພຸນ ສິນທິ	ຊາຍ	ກຸຣິມ	ວຽກ ສຳນັກງານ	ຈັມໂກດ	92061488	ພຸນ ສິນທິ
156	59 ທ. ສິນ	ຊາຍ	ລາວລຸ່ມ	ປ/ຈ	ຈັມໂກດ		ສິນ
157	60 ທ. ພຸນ ສິ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ພຸນ ສິ
158	61 ທ. ງາວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ງາວມ
159	62 ທ. ງາວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ງາວມ
160	63 ທ. ສິວມ	ຊາຍ	ກຸຣິມ	ປ/ຈ	ຈັມໂກດ		ສິວມ

4

Attachment 1: Consultation Attendance Sheet (7/14)

24February 2015 at Chan Tai Village, Houn District, Oudomxay Province
 Participated by the villagers of 169 persons (55 females) (6/6)
 (Ban Chan Tai, Ban Nathong, Ban Nongdieng)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜົນຜິດຊອບ Responsibility	ຈາກກຸ່ມ Organization	ເມືອງ City	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
161 64	ທ. ງົມ ຈັນ	ຊາຍ	ລື	ປູກ			ງົມຈັນ
162 65	ທ. ງົມ ຈັນ ຈັນ	ຊາຍ	ລື	ປູກ			ງົມຈັນ
163 66	ທ. ຈິ	ຊາຍ	ກຸ່ມ	ປູກ			ຈິ
164 67	ທ. ຈັນ ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
165 68	ທ. ຈັນ ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
166 69	ທ. ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
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77	ທ. ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			
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ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜົນຜິດຊອບ Responsibility	ຈາກກຸ່ມ Organization	ເມືອງ City	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ພົວພັນ Contact address
167 82	ທ. ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
168 83	ທ. ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
169 84	ທ. ຈັນ ຈັນ	ຊາຍ	ກຸ່ມ	ປູກ			ຈັນ
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Attachment 1: Consultation Attendance Sheet (8/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (1/7)
 (Ban Nam Feng, Ban Nam Oun)

ໂຄງການສັດທະພາ ໂຄງລ່າງສົມບັດພາກພື້ນ (ພາກ)
 ກອງປະຊຸມສະຫຼຸບການປະຕິບັດໜ້າທີ່
 ວັນທີ 25/2/2015
 ສະຖານທີ່: ບ້ານນາມຟັງ, ບ້ານນາມອຸ້ນ ເມືອງ ສຸນທາງ ວິທະຍາສາດ

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ສັນຕິພາບສັດທະພາ	ມາຈາກບາງກອນ	ກະຊວງກິດ (ຈ) ຫຼື ຂະນະທີ່ເປົ້າໝາຍໃນເຂດທີ່ກຳລັງປະຕິບັດໜ້າທີ່				ເຊັນ
					ສົມບັດພາກພື້ນ ພາກພື້ນ-ໄກ	ສົມບັດພາກພື້ນ ພາກພື້ນ-ກາງ	ສົມບັດພາກພື້ນ ພາກພື້ນ-ໃກ້	ບໍລິຫານສົມບັດ	
1	ນ. ບົວວິໄລ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		55183549	ບົວວິໄລ
2	ນາງ ພອນ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		97224667	ພອນ
3	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		54641070	ພິມມະສິດ
4	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
5	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		72030221	ພິມມະສິດ
6	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
7	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
8	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		75963352	ພິມມະສິດ
9	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
10	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ

ພາຍຫຼັງ: ຂໍອະໄພສໍາລັບການຖາມສາກຊົນເຜົ່າຂອງທ່ານ - ເພາະພວກເຂົາເຈົ້າເປັນບັນດາພາກສະໜອງທີ່ກຳລັງປະຕິບັດໜ້າທີ່ໃນເຂດທີ່ກຳລັງປະຕິບັດໜ້າທີ່ (ຕາມເງື່ອນໄຂ ADB ວາງ 1 ໄວ້)

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ສັນຕິພາບສັດທະພາ	ມາຈາກບາງກອນ	ກະຊວງກິດ (ຈ) ຫຼື ຂະນະທີ່ເປົ້າໝາຍໃນເຂດທີ່ກຳລັງປະຕິບັດໜ້າທີ່				ເຊັນ
					ສົມບັດພາກພື້ນ ພາກພື້ນ-ໄກ	ສົມບັດພາກພື້ນ ພາກພື້ນ-ກາງ	ສົມບັດພາກພື້ນ ພາກພື້ນ-ໃກ້	ບໍລິຫານສົມບັດ	
11	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
12	ນ. ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		96751308	ພິມມະສິດ
13	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		5898224	ພິມມະສິດ
14	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
15	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		9883935	ພິມມະສິດ
16	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		56524031	ພິມມະສິດ
17	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
18	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ		28839478	ພິມມະສິດ
19	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
20	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
21	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
22	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
23	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ
24	ທ່ານ ພິມມະສິດ	ຍິງ	ປ/ຈ	ຈາກບ້ານນາມຟັງ		ລາວລຸ່ມ			ພິມມະສິດ

ພາຍຫຼັງ: ຂໍອະໄພສໍາລັບການຖາມສາກຊົນເຜົ່າຂອງທ່ານ - ເພາະພວກເຂົາເຈົ້າເປັນບັນດາພາກສະໜອງທີ່ກຳລັງປະຕິບັດໜ້າທີ່ໃນເຂດທີ່ກຳລັງປະຕິບັດໜ້າທີ່ (ຕາມເງື່ອນໄຂ ADB ວາງ 2 ໄວ້)

Attachment 1: Consultation Attendance Sheet (9/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (2/7)
 (Ban Nam Feng, Ban Nam Oun)

ໂຄງການສົດທະນາ ໂຄງລ່າງສື່ມວນຊົນສາທາລະນະ (໒໗໑)

ກອງປະຊຸມ.....

ວັນທີ.....

ສະຖານທີ່.....

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ອາຍຸ	ບັນຍັດປະສານ	ມາຈາກສາກສ່ວນ	ກະຊວງປະຕິບັດ (໑) ສື່ ຂອງໜີ້ຊົນທີ່ໄດ້ຮັບການສະໜັບສະໜູນ				ເຊັນ
						ສະໜັບສະໜູນ ຈາກລັດ	ສະໜັບສະໜູນ ຈາກອົງການສູນກາງ	ສະໜັບສະໜູນ ຈາກອົງການທ້ອງຖິ່ນ	ເປັນສະໜັບສະໜູນ	
25	1 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ			1/10/15
26	2 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		32661458	1/10/15
27	3 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		32661458	1/10/15
28	4 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		58956718	1/10/15
29	5 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		32661458	1/10/15
30	6 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
31	7 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
32	8 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
33	9 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
34	10 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15

ພາຍຫຼັງ: ຂໍອະໄພຕໍ່ການບໍ່ມີການສະໜັບສະໜູນເປັນເປົ້າໝາຍ - ເພາະພວກເຮົາບໍ່ມີເງິນສົດທະນາສະໜັບສະໜູນເປັນເປົ້າໝາຍ (ຕາມເງື່ອນໄຂ ADB ລາຍ 1.1)

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ອາຍຸ	ບັນຍັດປະສານ	ມາຈາກສາກສ່ວນ	ກະຊວງປະຕິບັດ (໑) ສື່ ຂອງໜີ້ຊົນທີ່ໄດ້ຮັບການສະໜັບສະໜູນ				ເຊັນ
						ສະໜັບສະໜູນ ຈາກລັດ	ສະໜັບສະໜູນ ຈາກອົງການສູນກາງ	ສະໜັບສະໜູນ ຈາກອົງການທ້ອງຖິ່ນ	ເປັນສະໜັບສະໜູນ	
11							ສະໜັບສະໜູນ			
12	1 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ			1/10/15
13	2 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		95350012	1/10/15
14	3 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		036430227	1/10/15
15	4 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
16	5 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		036430227	1/10/15
17	6 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		96902818	1/10/15
18	7 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
19	8 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		036430227	1/10/15
20	9 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
21	10 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		92112591	1/10/15
22	11 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ		54994920	1/10/15
23	12 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ			1/10/15
24	13 ທ່ານ ສິນທິພອນ ສິນທິພອນ	ຊາຍ	35	ປ/ຈ	ບາ/ກາເມືອງ		ສະໜັບສະໜູນ			1/10/15

Attachment 1: Consultation Attendance Sheet (10/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (3/7)
 (Ban Nam Feng, Ban Nam Oun)

ໂຄງການສົດທະນາ ໂຄງລ່າງຊົນນະບົດພາກເໜືອ (ໝູ່ເມືອງ)

ກອງປະຊຸມ.....

ວັນທີ.....

ສະຖານທີ່.....

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ຄຳສັ່ງເປັນຕົວຊ່ອຍ	ມາຈາກພາກສ່ວນ	ກະຊວງດິກ (ປ) ຫຼື ຂຽນຊື່ເປັນຂອງຕົນເອງໃສ່ຫ້ອງຊຸມນີ້				ເຊັນ
					ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ໄກ	ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ໃກ້	ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ສະເພາະ	ເບີໂທລະສັບ	
48	1 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (2)		ສາວລຸ້ນ		99031127	ສົມບັດ
49	2 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
50	3 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
51	4 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (1)		ສາວລຸ້ນ		9856191	ສົມບັດ
52	5 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
53	6 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
54	7 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ		97232325	ສົມບັດ
55	8 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
56	9 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
57	10 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ

ໝາຍເຫດ: ຂໍອະໄພສໍາລັບການຖາມຫາຊື່ເປັນຂອງຕົນເອງ - ເພາະພວກເຂົາເຈົ້າບໍ່ມີປະຕິບັດຕາມກອບແຜນການປົກປ້ອງສິດຂອງຊົນເຜົ່າສ່ວນນ້ອຍ (ຕາມເງື່ອນໄຂ ADB ໐໑/໒໐)

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ຄຳສັ່ງເປັນຕົວຊ່ອຍ	ມາຈາກພາກສ່ວນ	ກະຊວງດິກ (ປ) ຫຼື ຂຽນຊື່ເປັນຂອງຕົນເອງໃສ່ຫ້ອງຊຸມນີ້				ເຊັນ
					ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ໄກ	ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ໃກ້	ຊື່ເປັນຕົວຊ່ອຍ ພາກສ່ວນ-ສະເພາະ	ເບີໂທລະສັບ	
58	11 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
59	12 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
60	13 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
61	14 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
62	15 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
63	16 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
64	17 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
65	18 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
66	19 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
67	20 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
68	21 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
69	22 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
70	23 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ
71	24 ພ. ສົມບັດ	ຊື່	ປ/ຈ	ບັນດາ (3)		ສາວລຸ້ນ			ສົມບັດ

ໝາຍເຫດ: ຂໍອະໄພສໍາລັບການຖາມຫາຊື່ເປັນຂອງຕົນເອງ - ເພາະພວກເຂົາເຈົ້າບໍ່ມີປະຕິບັດຕາມກອບແຜນການປົກປ້ອງສິດຂອງຊົນເຜົ່າສ່ວນນ້ອຍ (ຕາມເງື່ອນໄຂ ADB ໐໑/໒໐)

Attachment 1: Consultation Attendance Sheet (11/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (4/7)
 (Ban Nam Feng, Ban Nam Oun)

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ໝາຍເຊັນຕີດສອບ	ມາຈາກບ່ອນໃດ	ກະຊວງປົກ (ຈ) ຫຼື ຂະແໜງທີ່ເປັນຂອງຕົນເອງໃນເຂດທີ່ກຳລັງຖືກສຶກສາ				ເຊັນ
					ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່	ເປັນໄດ້ແກ້ໄຂ	
72	11 ທ້າວ ດຽງ	ຊາຍ	2/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
73	12 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
74	13 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
75	14 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່			98461696	ຊື່ບໍລິຫານສະຖານທີ່
76	15 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
77	16 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
17									
18									
19									
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ໝາຍເຫດ: ຂໍອະໄພສໍາລັບການຖາມຫາຊື່ເຂົ້າຂອງທ່ານ - ເພາະພວກເຮົາກໍ່ມີຈຳນວນທີ່ຈຳກັດຕາມກຳລັງການປະຕິບັດງານຂອງຂັ້ນເຂົ້າສ່ວນນ້ອຍ (ຕາມເງື່ອນໄຂ ADB ວາງໄວ້) 2

ໂຄງການພັດທະນາ ໂຄງລ່າງຊຸມນະບົດພາກພື້ນ (ຂາດ)

ກອງປະຊຸມ.....

ວັນທີ.....

ສະຖານທີ່.....

ລ/ດ	ຊື່ ແລະ ນາມສະກຸນ	ເພດ	ໝາຍເຊັນຕີດສອບ	ມາຈາກບ່ອນໃດ	ກະຊວງປົກ (ຈ) ຫຼື ຂະແໜງທີ່ເປັນຂອງຕົນເອງໃນເຂດທີ່ກຳລັງຖືກສຶກສາ				ເຊັນ
					ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່	ເປັນໄດ້ແກ້ໄຂ	
1									
78	2 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
79	3 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່			55461697	ຊື່ບໍລິຫານສະຖານທີ່
80	4 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
81	5 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່			97923008	ຊື່ບໍລິຫານສະຖານທີ່
82	6 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
83	7 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
84	8 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່
85	9 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່			98745678	ຊື່ບໍລິຫານສະຖານທີ່
86	10 ທ້າວ ດຽງ	ຊາຍ	1/3	ຊື່ບໍລິຫານສະຖານທີ່	ຊື່ບໍລິຫານສະຖານທີ່				ຊື່ບໍລິຫານສະຖານທີ່

ໝາຍເຫດ: ຂໍອະໄພສໍາລັບການຖາມຫາຊື່ເຂົ້າຂອງທ່ານ - ເພາະພວກເຮົາກໍ່ມີຈຳນວນທີ່ຈຳກັດຕາມກຳລັງການປະຕິບັດງານຂອງຂັ້ນເຂົ້າສ່ວນນ້ອຍ (ຕາມເງື່ອນໄຂ ADB ວາງໄວ້) 1

Attachment 1: Consultation Attendance Sheet (12/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (5/7)
 (Ban Nam Feng, Ban Nam Oun)

ລ/ດ No.	ຊື່ ພວກ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈຸດປະສານ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ສື່ສານ Contact address
82	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
83	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
84	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
85	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
86	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
87	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
88	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
89	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
90	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
91	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
92	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
93	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
94	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
95	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
96	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
97	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
98	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
99	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
100	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
101	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
102	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
103	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ

ລ/ດ No.	ຊື່ ພວກ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈຸດປະສານ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ສື່ສານ Contact address
104	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
105	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
106	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
107	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
108	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
109	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
110	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
111	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
112	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
113	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
114	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
115	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
116	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
117	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
118	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
119	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
120	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ
121	ທ່ານ ສິນທິ	ຍິງ	ລາວ	ປູກ	ບໍ່ມີ		ບ້ານ

Attachment 1: Consultation Attendance Sheet (13/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (6/7)
 (Ban Nam Feng, Ban Nam Oun)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈາກການສ່ວນ Organization	ເບີໂທ Contact address	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ສື່ສານ Contact address
126	46	ຊາຍ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2	09092946	ຊາຍ 46
127	47	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2	48	ຍິງ 47
128	48	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 48
129	49	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 49
130	50	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 50
131	51	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 51
132	52	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 52
133	53	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 53
134	54	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 54
135	55	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 55
136	56	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 56
137	57	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 57
138	58	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 58
139	59	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 59
140	60	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 60
141	61	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 61
142	62	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 62
143	63	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 63

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຕຳແໜ່ງ Responsibility	ຈາກການສ່ວນ Organization	ເບີໂທ Contact address	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ສື່ສານ Contact address
138	64	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 64
139	65	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 65
140	66	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 66
141	67	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 67
142	68	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 68
143	69	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 69
144	70	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 70
145	71	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 71
146	72	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 72
147	73	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 73
148	74	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 74
149	75	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 75
150	76	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 76
151	77	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 77
152	78	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 78
153	79	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 79
154	80	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 80
155	81	ຍິງ	ລາວ ລຸ່ມ	ປ/ຊ	11/2/2		ຍິງ 81

Attachment 1: Consultation Attendance Sheet (14/14)

25February 2015 at Fen Village, Houn District, Oudomxay Province
 Participated by the villagers of 167 persons (94 females) (7/7)
 (Ban Nam Feng, Ban Nam Oun)

ລ/ດ No.	ຊື່ ແລະ ນາມສະກຸນ Name and family name	ເພດ Sex	ຊົນເຜົ່າ Ethnic Group	ຜົນຜິດ Responsibility	ຈາກພາກສ່ວນ Organization	ເບີໂທ Phone	ທີ່ຢູ່ສຳລັບການຕິດຕໍ່ຟັງ Contact address
156	82 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ	5296305	ບ້ານ
157	83 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
158	84 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
159	85 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ	54667070	ບ້ານ
160	86 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ	5990874	ບ້ານ
161	87 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ	59778908	ບ້ານ
162	88 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
163	89 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
164	90 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ	56232325	ບ້ານ
165	91 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
166	92 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
167	93 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
168	94 ທ. ພົມມະ	ຊື່	ລາວ	ປ/ຈ	ບ. ດຳລົງ		ບ້ານ
95							
96							
97							
98							

Attachment 2: Photos of Public Consultation

The first day of the village public consultation meeting was held on 23 Feb. 2015 at the Agriculture and Forestry Department Office	
	
Meeting with PPOs and DCOs	Meeting with PPOs and DCOs
Village Public Consultation on 24 Feb 2015 at Ban Chan Tai, Houn District	
	
Chairman was Mr. BountiemSouphanthong Deputy Chief of Houn District	Village consultation at Chantai Village, Houn District Nam Oun Subproject
	
Women Group Discussion by the facilitator	Public Consultation for IEE and all participants agreed and accepted subproject by raising hands

	
Women also participated in the public consultation meeting	Representative presented the result of group discussion

**Village Public Consultation
on 25 Feb 2015 at Ban NamFaen, Houn District**

	
Chairman was Mr. BountiemSouphanthong Deputy Chief of Houn District	Village Consultation at Faen Village, Houn District Nam Oun Subproject
	
Women Group Discussion by the facilitator	Women participated
	
Public Consultation for IEE and all participants agreed and accepted subproject by raising hands	Representative presented the result of the group discussion

Attachment 3: Summary of Findings of Consultations

Group discussions took place with four groups from among the villagers: a village authority group, a female group, an ethnic group, and a WUG farmer group, facilitated by GIC, PPO, and DCO staff. Each group discussed their current problems, causes, and solutions (including activities sought for inclusion in the project). Flipcharts were used to help focus on the social infrastructure agriculture, environmental management and marketing problems, causes and solutions. Findings were discussed and presented

Problems	Causes	Solutions/ Improve suggestion
a. Insufficiency water for paddy field (Both wet season and dry season).	<ul style="list-style-type: none"> There are 2 head works (2 weirs) which is the upstream weir drain almost of water in the river to the left side area which is smaller part. So, the downstream weir were drain water to a larger area (right side) lack of water source. Earth canal with not properly Operation and maintenance which is result of leak of water and make water not reach the downstream part of the rice field area. Conflict between the farmer who require draining water to their paddy rice field and farmer who have fish pond along the main canal due to water leak to fishpond and owner of fish pond conflict to paddy rice farmer and not allow water to the downstream part. No official WUG was organized to manage of the irrigation system, no role and regulation. WUG have no fund for O&M. There are 5 villages in the catchment area (Konekham village, Ban prai, Ban Makson, and Ban Pha Ngam Lom and Theung) continue of shifting cultivation in the catchment area and planting of larger area of rubber tree which is affected to lack water source of Nam Oun for Irrigation system. 	<ul style="list-style-type: none"> Build a new headwork (weir) at upstream of existing 2 weir to be merge of 2 weirs to be one weir and including of rehabilitation of Irrigation river Basin, main concrete canal lining, canal turnout gate and etc.,) Establishment WUG including develop rule, role, regulation, farmer registration and adopting and Improvement of WUG capacity building such as WUG management, financial accounting and Operation and maintenance. Collection of ISF to ensure that WUG have sufficiency fund for rehabilitation of the Irrigation system. Development of Catchments Management plan and request district concerned office to adopting in appropriate.
b. People in the area lack of knowledge and Use chemicals for agriculture activities and now become to affect to their health.	<ul style="list-style-type: none"> A lot of Chemical fertilizer and Herbicides was imported by trader and Chinese to sell in the area. A lot of Using Chemical fertilizer and Herbicides in Water melon cropping and banana planting. All of instruction and sticker was completely in Chinese which is farmer very limited to access to information, and as well as no appropriate training. 	<ul style="list-style-type: none"> Requirement for organization concern to restrict of import of Chemical fertilizer and Herbicides Need project to find appropriate training and awareness to ensure that farmers have enough knowledge of Chemical in agriculture activities.
c. Low rice production yield (2.5 – 3 tone	<ul style="list-style-type: none"> Insufficiency of water for paddy rice field (particularly lower part) Farmer use only local varieties. 	<ul style="list-style-type: none"> Improve the irrigation system to ensure that sufficiency water for agriculture cropping.

Problems	Causes	Solutions/ Improve suggestion
per hectares only).	<ul style="list-style-type: none"> • None high yield variety (HYV) • Lack of new agriculture technique • Pest attack (snail and caterpillar, grasshopper and etc...) • A lot of weeds as insufficiency of water. 	<ul style="list-style-type: none"> • Demonstrate of HYV and training on new agriculture technique • Training on pest and weed control and as well as organic fertilizer Production.
d. Female in the area Lack of incomes	<ul style="list-style-type: none"> • All villages women and men Lack of Gender development concept • Lack of concept of rural development • Women still work hard, no time to take care themselves • Women in the village lack of job to increase they incomes 	<ul style="list-style-type: none"> • Gender development training to Villages Authorities • Basic concept of gender development awareness raising to all men and women in the village • Develop and training basic concept of rural development • Promote gender animal raising to all women poor vulnerable and indigenous people