

Social Safeguards Due Diligence Report

Resettlement and Ethnic Minorities Development Plan
Document Stage: Revised
Project Number: 41461
January 2015

Viet Nam: Sustainable Rural Infrastructure Development Project in Northern Mountain Provinces

Subproject 55: Upgrading Domestic Water Supply in Xuan Lung and Xuan Huy Communes, Lam Thao District, Phu Tho Province

Prepared by Ministry of Agriculture and Rural Development.

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ABBREVIATIONS

ADB	-	Asian Development Bank
AH	-	Affected households
AP	-	Affected persons
CARB	-	Compensation, Assistance and Resettlement Board
CPC	-	Commune Peoples, Committee
CPMU	-	Central Project Management Unit
DARD	-	Department of Agriculture and Rural Development
DCARB	-	District Compensation, Assistance, Resettlement Board
DMS	-	Detailed Measurement Survey
DOF	-	Department of Finance
DONRE	-	Department of Natural Resources and Environment
DPC	-	District Peoples, Committee
DPI	-	Department of Planning and Investment
EA	-	Executing Agency
EM	-	Ethnic Minority
EMP	-	Environmental Management Plan
FS	-	Feasibility Study
GOV	-	Government of Vietnam
IEE	-	Initial Environmental Examination
IMO	-	Independent Monitoring Organization
IOL	-	Inventory of Losses
LURC	-	Landuse Rights Certificate
MOF	-	Ministry of Finance
MOLISA	-	Ministry of Labor, Invalids and Social Assistance
MONRE	-	Ministry of Natural Resources and Environment
MARD	-	Ministry of Agriculture and Rural Development
NTP	-	Notice to Proceed
PCARB	-	Provincial Compensation, Assistance and Resettlement Board

PIB	-	Project Information Booklet
PPC	-	Provincial People Committee
PPMU	-	Provincial Project Management Unit
RCS	-	Replacement Cost Study
RP	-	Resettlement and Ethnic Minorities Development Plan
RF	-	Resettlement Framework
RP	-	Resettlement Plan
SES	-	Socioeconomic Survey
USD	-	US Dollars
VND	-	Vietnamese Dong
VWU	-	Viet Nam Women's Union

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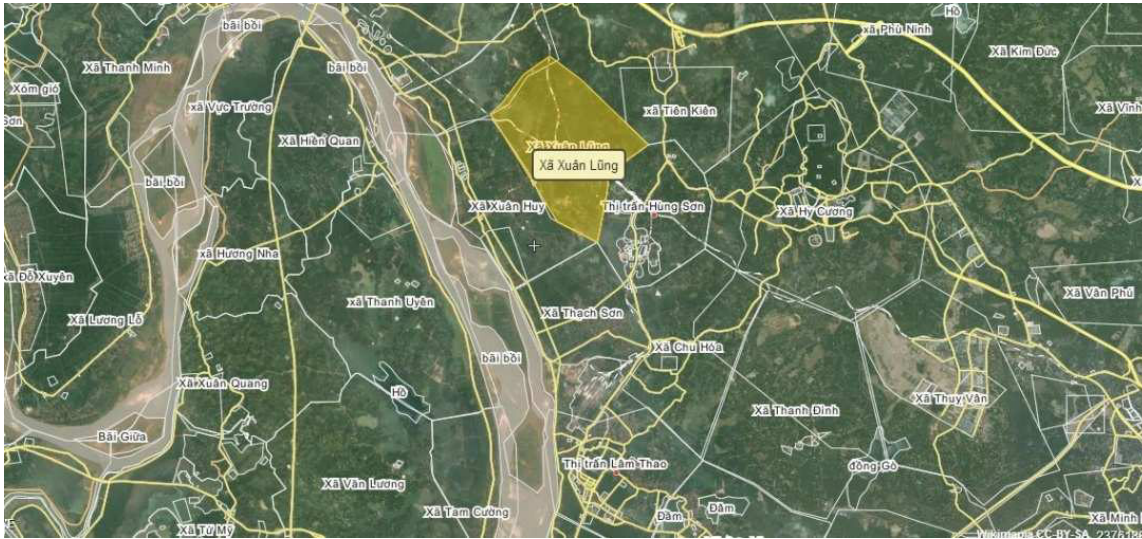
Table 1: Length of water pipeline per size..... 1

I. SUMMARY OF PROJECT DESCRIPTION

A. Brief description (Present work)

1. This social safeguards due diligence report (DDR) is prepared for the subproject of “Upgrading Domestic Water Supply in communes of Xuan Lung and Xuan Huy, Lam Thao District, Phu Tho Province” – one of the subprojects of the Sustainable Rural Infrastructure Development Project in the Northern Mountain Provinces funded by Asian Development Bank (ADB). The subproject site is located within an area that has two distinct seasons namely rainy (May-September) and dry season (October-April). The terrain is flat and hill (midland) is predominantly agricultural area within the flood plains of the Thao River. The main waterway is the Thao river, which is used as source for irrigation water, navigation, and natural drainage. The population within the subproject beneficiary communes is 10,002 (2,624 HHs) that all are Kinh people. Agriculture is the main livelihood source, and paddy rice is the main crop. Poverty rate is around 10%.

Figure 1: Location map



2. Geographical location Xuan Lung commune
 - Northern borders : Ha Thach Commune , Phu Tho town
 - Southern borders : Thach Son commune ,
 - Eastern borders : Hung Son town , Tien Kien commune .
 - To the west : Xuan Huy commune
3. Geographical location Xuan Huy commune
 - Northern borders Ha Thach commune (Phu Tho Town)
 - Southern borders : Thach Son commune
 - Eastern : Xuan Lung commune
 - West : Thanh Uyen commune (Tam Nong district)

B. Proposed Works

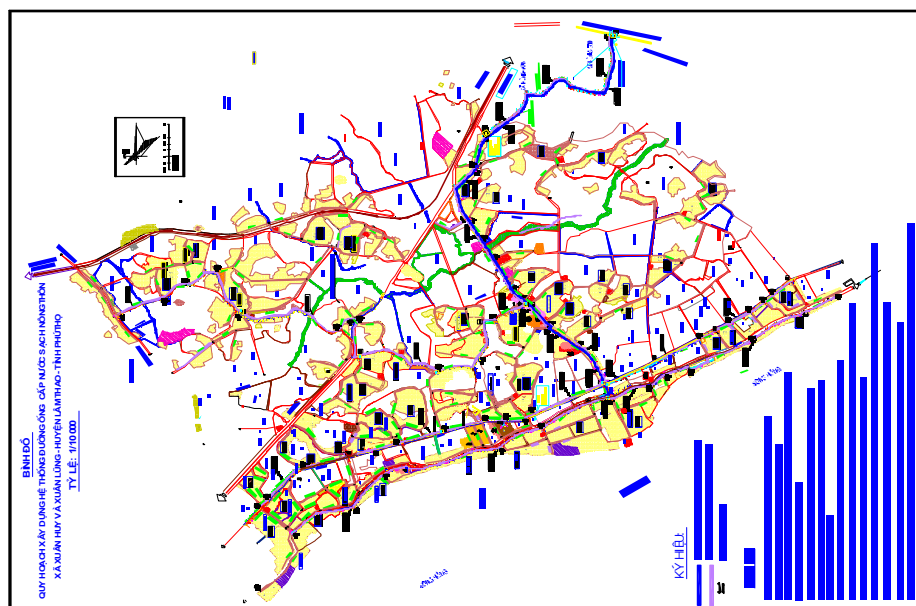
4. The subproject entails the installation of additional water pipeline (111.31 km) connected to the existing water main pipe towards the additional service area within the two beneficiary communes of Xuan Lung and Xuan Huy (HH water pipe connection). Details of the pipe length per kind (diameter) is found below:

Table 1: Length of water pipeline per size

Size of pipe_D (mm)	160	110	90	63	50	40	32	D20 for HH
Length of pipeline (m)	3,842	6,117	2,198	6,367	12,100	18,146	7,015	55,525

5. The reserved tank. Because the subproject area located fairly far from Viet Tri WTP about 25km, there is a need to build a separate water storage tank in the case of any incident of disruption from the main water supply source. The amount of stored water should be enough to provide 3-5 hours supply in any case of emergency. The dimension of the tank is 3.5m x 8m x 8 m =224m³. The tank is located underground of the pump house.
6. To enable potable water flow to reach all sections of the service area, an automatic electric booster pump house (2pumps, each pump has p=15kw) will be installed at a strategic segment of the pipeline. The pump house will have a 30m² floor area and has an iron fence and gate. Total lot area is 50 m².
7. Also a management house (100m²) will be built to house the O&M operations center of the subproject. Total lot area is 210m².
8. All buildings will be built within idle government lands (CPC land), while the pipeline will be laid along the side of the road well within the road ROW (government land).

Figure 2: Subproject



C. Social Issues:

9. The LIC social safeguards specialists with support of CPMU, Phu Tho PPMU, and communes' PCs has conducted a social impact assessment in the proposed communes to identify social impact issues and scope of land acquisition in the subproject communes.
10. There are some main social issues of the subprojects found from social impact assessment conducted by the LIC specialists:
 - (i) Inadequate potable water supply for the two beneficiary communes of Xuan Lung and Xuan Huy.
 - (ii) Existing water source for domestic use include piped water (limited coverage within subproject area), shallow wells, rain and water source of neighbouring communes.
 - (iii) The Water supply company has no funds to invest in expanding its services to subproject area.
 - (iv) Groundwater is polluted and many wells dry up during the dry season.

II. Scope of Land Acquisition

11. According to the social impact assessment, all subproject facilities (i.e. pump house and management house and pipelines) are to be sited in government lands (CPC land), while the pipelines are to be buried at the side of the existing roads well within the Right of Way (ROW). Therefore, negative impacts resulting from land acquisition, including temporarily impacts on local people have not been identified in the subproject area. It is predicted that there is no potential land acquisition impact on the local people during subproject implementation.
12. **Resettlement Category:** The subproject could be categorized C for Involuntary Resettlement and Indigenous People due to no land acquisition and negative impact on the local people. Following ADB SPS 2009 (para 17, Appendix 2) and Project Resettlement Framework (para 26, Item A, Chapter IV), there is no need for the preparation of RP and IP. In case land acquisition of the local people occurs during subproject implementation due to changes in technical design, a RP will be prepared and submitted to ADB for endorsement. Payment for affected land and non-land assets must be paid at replacement costs and before commencing construction.

III. Public Consultation Meetings

13. **Xuan Lung Commune:** The Public Consultation meeting was held on 25 September 2014 in the commune. Participants include major stakeholders (i.e. PPMU, CPC officials, Local residents, academe, CPMU, Safeguard Consultants). The CPC Chairperson welcomed the visitors and encouraged his constituents to actively participate in the discussions. PPMU Director explained the rationale of the subproject, while Safeguard consultants informed the body of the environment and social impact of the subproject implementation. The participants have raised a number of issues which include: a) they have long waited for this subproject to be implemented; b) there is inadequate potable water supply in their area; c) Incidence of waterborne diseases is confirmed especially for residents using shallow wells with polluted ground water; d) time is wasted fetching clean water from neighboring areas; and e) concern that subproject may not be able to sustain the supply of clean water to the service area. Participants to meeting agreeable to pay between 5,000-7,000VND/m³ of clean potable water piped to their homes.
14. **Xuan Huy Commune:** The Public Consultation meeting was held on 26 September 2014 in the commune. Participants include major stakeholders (i.e. PPMU, CPC officials, Local residents, academe, CPMU, Safeguard Consultants). The CPC Chairperson welcomed the visitors and encouraged his constituents to actively participate in the discussions. PPMU Director explained the rationale of the subproject, while Safeguard consultants informed the body of the environment and social impact of the subproject implementation. The participants have raised a number of issues which include: a) they have long waited for this subproject to be implemented; b) there is inadequate potable water supply in their area; c) poor quality of piped water (i.e. yellow color and sometime “fishy” odour; d) ground water is polluted and normally dries up during dry season; e) Incidence of waterborne diseases is confirmed especially for residents using shallow wells; f) time is wasted fetching clean water from neighbouring areas; g) affordability of water-users fee; and h) concern that subproject may not be able to sustain the supply of clean water to the service area. Participants to meeting agreeable to pay between 5,000-7,000/m³ of clean potable water piped to their homes. (*See minutes of the Public Consultation Meeting in Appendix 5*)

VI. Implementation Arrangements

15. The Ministry of Agriculture and Rural Development (MARD) is the Executing Agency for the Sustainable Rural Infrastructure Development Project in Northern Mountainous Provinces. CPMU under MARD has responsibility for project management. Phu Tho PPMU is responsible for the subproject implementation.

APPENDIX 1. Subproject Social Safeguards Screening Form

Province:	Phu Tho	District(s):	Lam Thao
Subproject Title:	Upgrading Domestic Water Supply in Xuan Lung Commune and Xuan Huy Commune, Lam Thao District, Phu Tho Province		
Subproject components:	Main and distribution pipeline, booster pumphouse, Management house and concrete water tank (reservoir)		
Design stage:	Basic Design Stage		

Screening Questions	Yes	No	Not Known	Remarks
A. Involuntary Resettlement				
1. Does the subproject include upgrading or rehabilitation of existing physical facilities?	X			The subproject entails to expand the coverage on an existing water supply facility.
2. Are there pending or unresolved land acquisition-related impacts related to the existing facility to be upgraded/expanded under the subproject?		X		Existing issue is the inadequate supply of potable water to all members of the 2 beneficiary communes.
3. Are there resettlement/land acquisition actions conducted by the PPC or DPC in the subproject prior (within 3 years) to the approval of the supplemental loan?		X		None related to construction of potable water supply system.
4. Are there any subproject effects likely to lead to loss of housing, other assets, resource use or incomes/livelihoods?		X		All subproject facilities will be built/installed within government lands (CPC lands).
5. Is land acquisition likely to be necessary?	X			Only government lands will need to be acquired for the subproject.
Is the site for land acquisition known?	X			
6. Is the ownership status and current usage of the land known?	X			<ul style="list-style-type: none"> All subproject facilities will be built/installed within government lands (CPC lands). Pipelines are to be laid along existing road ROW; Management house to be built in CPC compound; and Booster pumphouse to be erected at an idle land beside the road.
6. Are there non-titled people/households who put up/established improvements/crops/trees/structures at the subproject site or within the right of way?		X		
7. Are there any non-titled people who live or earn their livelihood at the site or within the Right of Way?		X		
8. Will there be loss of housing?		X		
9. Will there be loss of agricultural plots?		X		
10. Will there be losses of crops, trees, and fixed assets?		X		The construction of the Management house will require the dismantling and relocation of the CPC covered parking lot to another corner of the compound.
11. Will there be loss of businesses or enterprises?		X		
12. Will there be loss of incomes and livelihoods?		X		

Screening Questions	Yes	No	Not Known	Remarks
13. Will there be people who will experience major resettlement impacts. i.e. be physically displaced from housing or lose 10% or more of productive land? (If yes, indicate number of DPs in the remarks column)		X		
14. Are there displaced persons that can be considered as vulnerable as defined under the project? (If yes, indicate number of DPs in the remarks column)		X		
15. Will people lose access to facilities, services, or natural resources?	X			Installation of the pipeline will entail shallow excavation located along the existing road ROW, which may temporarily obstruct access of local residents to their properties in very short time. Boards/planks and other temporary means can be used to allow local people passage over the trenches meantime pipelaying is on-going.
B. Ethnic Minorities				
1. Are there communes within the subproject area that are inhabited by households considered as ethnic minorities in Vietnam?		X		There are only a few EM individuals that intermarry with local people and settled within the subproject area.
2. Do the ethnic minority households in the subproject area possess the following characteristics: (i) identify themselves and by others as an ethnic minority group; (ii) attached collectively to a geographically distinct habitat or ancestral territory; (iii) have customary cultural, economic, social, or political institutions that are separate from the dominant Kinh/Viet society and culture; and (iv) have a distinct language, often different from the official language of the country or region?		X		
3. (If 'yes' in items 1 and 2) Will any of these EM households be adversely affected by the subproject?				Not Applicable
4. (If 'yes' in items 1 and 2) Will any of these EM households benefit from the proposed subproject?				Not Applicable

APPENDIX 2: MINUTES OF THE SCOPING MEETING

Date/Time: 25 September 2014

Location: PPMU Phu Tho Province Office, Viet Tri City

Attending: CPMU: Mr. Hung; PPMU: Mr. Nam (Vice Director), Mr. Kim and Mr. (safe guard staffs); LIC: Alan Salvador, VIWASE team: Hoa (team leader), Trang (Resettlement Spl), Ninh (Environment Spl), Huong (Resettlement Spl), PPMU Design Consultant: Tung

ITEM	MATTER	DISCUSSION	FOLLOW-UP
1	Background	A scoping meeting was held to determine the scope of the Safeguard report for SP55 that needs to be prepared and submitted by the Safeguard consultants for review and consideration of ADB/MARD/PPMU	
2	Presentation of Subproject Description	PPMU Safeguard Staff Mr. Kim presented the rationale and general description of the proposed subproject SP55 to the body. Mr. Tung representing the PPMU Design consultants provided further details of the proposed scheme.	
3	Clarification of subproject details	<ul style="list-style-type: none"> • Clarificatory questions were raised on the Subproject description presentation. • It was mentioned that the subproject main components are: a) booster pump house, b) management house; and 111.31 km pipelines. • The subproject seeks only to expand the service area of existing water supply system. No treatment facility will be installed. • The subproject will attach to the main water pipeline of the existing water supply facility along the road. • All the major subproject components (i.e. booster pumphouse and management house) will be constructed within CPC (government) lands. The pipelines will be installed along the existing road well within its ROW. So no acquisition of privately owned land necessary. 	PPMU to promptly inform CPMU, LIC and VIWASE if any significant changes will be made on the Subproject Description so that appropriate adjustments can be made in the IEE, RP, and SIR.
4	Initial conclusion	<ul style="list-style-type: none"> • Pending confirmation of the resettlement impact following site inspection and public consultation meeting, the proposed subproject (SP55) can be recommended as Resettlement Category C, which means no involuntary resettlement; • Pending confirmation of the SP55 Resettlement Category C, there is no need for preparation of RP following Project Resettlement Framework and ADB SPS 2009. However, a scoping report will be needed to support the proposed Categorization along with other documents. The 	Proposed Subproject Resettlement and Environment Categorization recommendation to be confirmed during site visit and result of public consultation

		<p>subject will also be subject to Due Diligence by ADB for unforeseen construction phase resettlement-related adverse impacts.</p> <ul style="list-style-type: none"> • Pending site confirmation of site environmental conditions, off-hand it is expected that even simple water supply subproject can create adverse environmental impacts during the construction phase that need to be mitigated. Following the Project Environmental Assessment and Review Framework, the subproject can still be classified as Environment Category B, which will require the preparation of an IEE following the report format prescribed in the Project Administrative Manual (PAM). 	meeting
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Prepared by:

Le Thu Thu Trang

APPENDIX 3. CONFIRMATION LETTER BY PPMU

DEPARTMENT OF AGRICULTURAL AND
RURAL DEVELOPMENT

SOCIALIST REPUBLIC VIETNAM

Independent - Freedom - Happiness

**PROVINCIAL PROJECT MANAGEMENT UNIT
OF SUSTAINABLE RURAL INFRASTRUCTURE
DEVELOPMENT PROJECT IN MOUNTAIN
PROVINCES**

*No.69/CV-KH: About resettlement issue when
implementing the subproject: Upgrading
Water Supply in Xuan Lung and Xuan Huy
Communes, Lam Thao District, Phu Tho
Province*

Phu Tho, 24th October 2014

**Attention: - Centre Project Management Unit of SRIDPNMP (CPMU)
- Loan Implementation Consultant (LIC)**

Phu Tho PPMU of SRIDPNMP now are preparing for the subproject: Upgrading Water Supply of Xuan Huy and Xuan Lung Communes, Lam Thao District, Phu Tho Province. The components of the subproject: building a booster pump station and expanding the distribution pipeline network to ensure the standard water supply volume of 60 liters/person/day. It will supply potable water for over 2,600 HHs in Xuan Lung and Xuan Huy communes, Lam Thao district.

Based on the design, the booster pump station is located in 50m² of idle land which is managed by Xuan Lung Commune Land Fund; the management house will also built in Xuan Huy CPC office compound; and the distribution network will buried at the depth 0.6 - 1m along the existing roads ROW. Therefore, there is no permanent land or assets expected to be acquired from local people. All the impacts on land and assets are temporary that may be caused by pipeline laying. The local people absolutely approve and agree with this water supply work. The subproject will have no involuntary resettlement impact because no adverse impact is expected on local people's assets and livelihood.

We have to honor to report this comment on subproject resettlement to CPMU and LIC as a basic for preparing the Scoping Report for the Involuntary Resettlement sector.

Address to:

DIRECTOR OF PPMU

- As above
- DARD of Phu Tho
- Leader of PPMU
- Reserve at Archives, PPMU

NGUYEN HUNG SON

APPENDIX 4. MINUTES OF CONSULTATION MEETING

- I. SUBPROJECT:
Upgrading domestic water supply in Xuan Lung commune and Xuan Huy commune,
Lam Thao district, Phu Tho Province
- II. DATE, TIME, AND VENUE / LOCATION
Date 25 and 26 September, 2014 in Xuan Lung commune and Xuan Huy commune,
Lam Thao district, Phu Tho Province.
- III. ATTENDANCE: By Gender

Communes	Total Attendance	
	Male	Female
Xuan Lung	27	43
Xuan Huy	23	18
Total	50	61

IV. PROGRAM:

Topic / Activity	Responsible Person / Entity
Introduction participants of the commune, and objectives the consultation meeting	A representative of the Commune People's Committee
Presentation the Subproject background and objectives, reasons for consultation, and the composition of consultants	Representatives of the Provincial Project Management Unit
Presentation detailed specifications of the subprojects: WTP, intake, pipeline length	Project designer
Presentation ADB resettlement policies, the policy framework of the Government of Vietnam, provincial policies and the policy framework of subprojects: the conditions of eligibility for compensation and resettlement assistance if state revenues land.	Safeguard consultants
Consultation on: the compensation and resettlement plan for the subproject, replacement cost, measures to support relocation and resettlement required by the subproject; the project implementation plan; the environmental impacts and mitigation measures.	Safeguard consultants
Consultation on the grievances and grievances redress.	Safeguard consultants
Consultation on issues related to gender.	Safeguard consultants

V. ISSUES AND CONCERNS

Matrix of issues and concerns

No	Issue Raised		Response on Issue Raised	
	Issue	Who Raised the Issue/ Suggestion	Response	Person / Sector Who Responded to the Issue/ Suggestion
1	- In the implementation period, increase in noises, dust, smoke, may be produced. What will the subproject do to minimize these impacts?	Nguyen Trung Hong, Khu 1, Xuan Lung commune	- PPMU will require the contractor to implement the mitigation measures such as covering the cargo of trucks during transport of soil and other materials: +The contractor will take measures to minimize the environmental pollution during the construction as: the whenever practicable, reuse of excavated soil, and proper disposal of excess spoils, avoid flooding, dust control measures enforced during	Safeguard consultant

N°	Issue Raised		Response on Issue Raised	
	Issue	Who Raised the Issue/ Suggestion	Response	Person / Sector Who Responded to the Issue/ Suggestion
			land clearing/excavation works; proper scheduling of construction activities to avoid works during strong rains; reduce water pollution, proper maintenance of construction equipment and vehicles; proper upkeep of construction camp or yards, etc.	
2	The water source from drill well that his family is using is not clean and not enough for daily life. But when constructor settle pipeline they may damage the asset. How will they do in this case?	Nguyen Trung Hoc, Khu 8, Xuan Lung commune	The constructor has to recover all damage asset as prior subproject condition	PPMU vice director
3	How can we be assured that the subproject facilities can be servicable for a long period of time?	Ms. Dao Bich Ngoc, Khu 2, Xuan Lung commune	The construction contractor will be provided with instructions and detailed technical specifications on the construction of the subproject facilities and can be monitored by the community during the construction and operations and maintenance phase. And contractor will be obliged to implement appropriate methods of construction, hire competent workers and use sound management measures to ensure public order and safety for residents.	Safeguard consultant
4	<ul style="list-style-type: none"> - The construction of water treatment plant will not affect local people's culture. - Compensation is not necessary for little and temporary impacts. - People are just looking forward to a good quality and quantity of treated water. Now, lots of HHs have to buy water for drinking and cooking 	Nguyen Thi Hong, Phuong Xa commune		Safeguard consultant

N°	Issue Raised		Response on Issue Raised	
	Issue	Who Raised the Issue/ Suggestion	Response	Person / Sector Who Responded to the Issue/ Suggestion
5	<p>- Using existing water make women skin dark and not healthy.</p> <p>-Can the local people participate in the subproject construction? And what kind of work can they do?</p>	Nguyen Phuong Thao, Xuan Huy commune	Contractors will prioritize the hiring of local unskilled labor. About 30% of local labor, priority is given to unskilled females. Persons interested to work in the subproject construction, are advised to inform their local leaders by writing their names in a sheet of paper to be provided by the CPC; commune authorities and village chiefs will endorse the names to the contractors for consideration; priority will be given to members of the poorest households. Male and female unskilled workers will receive equal pay for similar work.	Safeguard consultant

Prepared by: Le Thi Thu Trang

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập - Tự do - Hạnh phúc

Xuân Huy, Ngày 25, tháng 09, năm 2017

Dự án phát triển cơ sở hạ tầng nông thôn bền vững các tỉnh miền núi phía Bắc

BIÊN BẢN THAM VẤN CỘNG ĐỒNG

Về các chính sách: Môi trường, Tái định cư, Giới và Dân tộc thiểu số

Tiểu dự án: Xây dựng công trình cấp nước sinh hoạt xã Xuân Lung và Xuân Huy huyện Lâm Thao
Địa điểm: Xã Xuân Huy

I. Thành phần tham dự:

- Ông/Bà: Nguyễn Văn Báo	Chức vụ: Chủ tịch UBND xã
- Ông/Bà: Trần Vĩnh Nam	Chức vụ: Phó BA Ban QLDA T&M
- Ông/Bà: Trần Tiến Hưng	Chức vụ: Cán bộ Ban QLDA T&M
- Ông/Bà: Alan Salvador	Chức vụ: Chuyên gia MT và TĐC
- Ông/Bà: Lê Thị Thu Trang	Chức vụ: Chuyên gia TĐC
- Ông/Bà: Nguyễn Quang Ninh	Chức vụ: Chuyên gia MT
- Ông/Bà:	Chức vụ:
- Ông/Bà:	Chức vụ:

- Đại diện những người bị ảnh hưởng: người (chi tiết xem danh sách đính kèm)

II Nội dung tham vấn:

1. Cán bộ BQLDA tỉnh giới thiệu về địa điểm, quy mô, các thông số kỹ thuật cơ bản và những tác động Tiểu dự án được xây dựng ở địa phương mang lại.

2. Cán bộ tư vấn trình bày về Khung chính sách của Dự án về giới và sự tham gia của cộng đồng trong quá trình thực hiện dự án, những vấn đề về phong tục, tập quán của cộng đồng dân tộc thiểu số, các kế hoạch phát triển người dân tộc thiểu số; những tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực; những tác động khi thu hồi đất và các tài sản trên đất. Đồng thời, chuyên gia cung cấp thông tin liên quan đến các chính sách của Chính

APPENDIX 5. SOCIAL ASSESMENT REPORT

The subproject area comprises Xuan Lung and Xuan Huy communes in Lam Thao district. Xuan Lung commune is a midland with low hills and interspersed field. Xuan Huy commune is located along Thao river, and established within flat lands. People are mainly engaged in agriculture for their livelihood with the average income (9.4-10.2 mil dong per year) is lower than provincial average income VND 20.4 mil. However the poverty rate (around 10%) in the subproject is slightly lower than provincial level (14.2%). The table below contains some socioeconomic indices of the two subproject communes.

No	Item	Unit	Xuân Huy commune	Xuân Lũng commune
	Total land area		611.84	682.39
I	Agricultural land	Ha	224.89	481.83
II	Non-agricultural land	Ha	325.2	159.99
III	People			
1	Number of HHs	HH	1,195	1,429
2	Population	Person	4,806	5,196
	Male		2,379	2,556
	Female		2,427	2,640
3	Average hh size	person	4	4
4	People density	persons/km2	7.85	7.61
5	EM HH	HH	-	15
6	% EM	%	-	0.01
7	Poor HH	HH	125.00	143
8	% poor HH	%	10.50	10.00
IV	Economic			
1	Average per capital income	Mil dong/year	9.40	10.20
2	People at labor age	Persons	1,510	2,530.00
3	Agricultural labor	people	649	1,113
4	Economic structure			
	- Agriculture	%	41.50	42.00
	- Industrial and handicraft	%	40.70	29.27
	- Services	%	17.80	28.73

In Xuan Lung commune: Phu Tho water supply company provide treated water to only 300 HHHs in Xuan Lung commune. Therefore there about 1,129 HHs in the commune that has to source their domestic water supply from already contaminated ground water. In addition shallow wells normally dry up during the dry season from January to April yearly.

In Xuan Huy commune: There are around 300 HHs that use water from drill wells which were constructed in 1991. However these facilities are now seriously degraded with contaminated ground water. People here are forced to use water from river and shallow well for their domestic use. The lack of potable water has cause many difficulites in local people's life. Futher more the acute potable water supply situation can cause severe public health problems if no immediate action is carried out soon. Already one village had been abandoned due to high incidence of cancer reported among its residents that had been traced to polluted ground water that the local people use for their domestic needs. It is suspected that factories located upstream of the village may have been the source of the pollutants..

Hence the people in the subproject strongly desire to have a new potable water system and they willing to pay from 5,000 dong to 7,000 dong per cubic meter of piped water.