

INITIAL ENVIRONMENTAL EXAMINATION

Project number: 40253-023

July 2016

LOAN 2721-VIE: BIODIVERSITY CONSERVATION CORRIDORS GREATER MEKONG SUB-REGION PHASE 2

Subproject:

**Upgrading Pa Ring-A Rom Inter-village path and Internal
Path in Pa Hy Village, Hong Ha Commune, A Luoi District,
Thua Thien-Hue Province**

Prepared by Thua Thien-Hue Provincial Project Management Unit – for the Central Project Management Unit, Ministry of Natural Resources and Environment, for the Asian Development Bank

**THUA THIEN HUE PROVINCIAL PROJECT MANAGEMENT
UNIT**

**L2721-VIE - GREATER MEKONG SUB-REGION
BIODIVERSITY CONSERVATION CORRIDORS
PROJECT – VIETNAM COMPONENT**

TWO SUBPROJECTS OF HONG HA COMMUNE, A LUOI DISTRICT

**PARING - A ROM INTER-VILLAGE PATH &
INTERNAL PATH IN PAHY VILLAGE**



Initial Environmental Examination (IEE)



**GREATER MEKONG
SUBREGION
CORE ENVIRONMENT
PROGRAM**

CURRENCY EQUIVALENTS

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.0000472
\$1.00	=	VND 22,250

ABBREVIATIONS

ADB	-	Asian Development Bank
BCC	-	Greater Mekong Subregion Biodiversity Conservation Corridors Project - Vietnam Component
CPC	-	Commune People's Committee
CPMU	-	Central Project Management Unit
DONRE	-	Department of Natural Resources and Environment
DPC	-	District People's Committee
EM	-	Ethnic Minority
EMDF	-	Ethnic Minority Development Framework
EMP	-	Environmental Management Plan
EPP	-	Environmental Protection Plan
IEE	-	Initial Environmental Examination
MONRE	-	Ministry of Natural Resources and Environment
NR49	-	National Road No.49
PPC	-	Provincial People's Committee
PPMU	-	Provincial Project Management Unit
RF	-	Resettlement Framework
S1	-	Pa Ring - A Rom Inter-village Path Subproject
S2	-	Internal Path in Pa Hy Village
UXO	-	Unexploded Ordnance

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I. INTRODUCTION

1. The project "Greater Mekong Sub-region Biodiversity Conservation Corridors Project - Vietnam Component (referred to as Project BCC) is sponsored by Asian Development Bank to be conducted in three provinces namely Quang Tri, Thua Thien Hue, Quang Nam. In Thua Thien Hue Province, the sub-projects will be conducted in 10 communes of A Luoi and Nam Dong Districts. The objective of the project is to create biodiversity corridor system in these three provinces in order to restore and maintain the coherence of the ecosystem in the region; contribute to adaptation; mitigate to climate change in Central Annamites; provide benefits to local livelihoods, provide safe water environment; improve and upgrade of infrastructure projects in commune areas under the project.

2. As a part of the BCC Project, there are two subprojects will be implemented in Hong Ha commune, A Luoi district, Thua Thien Hue province namely "Pa Ring - A Rom Inter-village Path" & "Internal Path in Pa Hy Village".

3. This Initial Environmental Examination/ Environmental Protection Plan (IEE/EPP) document have been prepared to meet the environmental safeguards requirements of the ADB¹ and GOV². The IEE/EPP contains the following information:

- (i) Section II contains a description of the subproject;
- (ii) Section III contains a description of the environmental conditions in the vicinity of the subproject;
- (iii) Section IV contains a describes of the potential environmental impacts of the subproject;
- (iv) Section V contains the environmental mitigation plan;
- (v) Section VI contains the environmental monitoring plan;
- (vi) Section VII describes the public consultation and disclosure activities that were carried out in June 2016;
- (vii) Section VIII describes the institutional arrangements for environmental management activities and the institutional strengthening activities that will be required to be undertaken;
- (viii) Section IX contains the environmental monitoring and reporting system for the subproject.

II. DESCRIPTION OF SUBPROJECTS

Table 1: General information of subproject

DATA ITEMS	SUBPROJECT DATA
GENERAL INFORMATION	
Subproject Name	Pa Ring - A Rom Inter-village Path (S1) & Internal Path in Pa Hy Village (S2)
Subproject Type	Upgrading existing rural road
Subproject owner	Thua Thien Hue Provincial Project Management Unit of "GMS Biodiversity Conservation Corridors – phase 2 (Thua Thien Hue PPMU)
Address of Subproject owner	No. 173 Pham Van Dong Street, Vy Da ward, Hue city, Thua Thien Hue province

¹ ADB Safeguards Policy Statement SPS 2009

² Law on Environment Protection No.55/2014/QH13; Decree No.18/2015/ND-CP and No.19/2015/ND-CP

DATA ITEMS	SUBPROJECT DATA
Name and title of Head of Project owner	Mr. Nguyen Huu Quyet. Director of Thua Thien Hue PPMU
Telephone, fax and email details of Project owner	Tel: 054.3935662
Name of Environmental Officer of PPMU	Mr. Van Duc Chung – Coordinator
Telephone, fax and email details of PPMU Environmental Officer	Mr. Van Duc Chung Tel: 0909.275.729 Email: chungducvn@gmail.com
SUBPROJECT DESCRIPTION	
New project or rehabilitation project	Road upgrading subproject
Designed level of the road	Rural road level C
Designed speed	15 km/h
Designed parameters of the road Road width (m) and length (m)	1) S1: Length: 639.93 m - Cross-section: + Roadbed width: 5.0m; + Road surface width: 3.5m; + Road slope: 3.0%; - Earth roadside: Width = 2x0.75m. 2) S2: Length: 327.45 m - Cross-section: + Roadbed width: 5.0m; + Road surface width: 3.5m; + Road slope: 3.0%; - Earth roadside: Width = 2x0.75m.
Surface structure	For both subprojects: Cement concrete surface type M200, thickness 18cm, buffer foundation with grit of thickness 10cm
Construction on the road	S1: 3 concrete cross pipe culverts with 1 m of width and have the same dimension with the subproject road. S2: There is no culvert will be constructed. The subproject end at one small flow. The existing bridge is already collapsed.
Length of drainage systems	Existing drainage system along road side will be improved
Clearance area	None
Project particular features	S1: The subproject connects the end point of an existing Program 135 road to National Road No.49 (NR49) with the total length of nearly 640 m. The subproject running along Ung Hoong River and closed to Huong Dien Hydropower Reservoir. A Luoi Protection forest locates 2 km away from the subproject on roadside of NR49.

DATA ITEMS	SUBPROJECT DATA
	S2: The subproject road connects NR49 to Pa Hy village center with the total length of 327.45m. The subproject road running along A A River (80 m) and A Luoi Protection forest locates about 600m from the subproject road, on the other side of NR49
CONSTRUCTION ACTIVITIES	
Construction commencement date (month/year)	August 2016
Construction completion date (month/year)	September 2016 (2 months)
Number of construction workers	About 20-30 workers for both S1 & S2 subprojects
Construction camps required (Yes/No)	Yes. Two camps for two subprojects There are several locations suitable for setting up temporary camp for workers of two subprojects. They are all close to NR49 and plain and large enough.
- Construction in rainy season (Yes/No)	- No. The subprojects will be constructed in 2 months in dry season.
Location, area and description of material source	Sources of material: - Stone: from Son Thuy Quarry in A Luoi district, 22km from the site. This quarry has operation permission from Thua Thien Hue PPC. - Sand: to make concrete mixture taken from the Hong Quang sand reserves, A Luoi district. It is 25 km away from the construction site and was authorized by PPC to serve construction activities in the province. - Filling soil: using excavation soil for embankment purpose. - Other materials such as cement, steel... bought from Hue city 50 km from construction site.
Balance and management measures for excess spoil	S1: Excavation soil will be reused for filling purpose. Filling soil: 870 m ³ Excavation soil: 19,023 m ³ . S2: Excavation soil will be reused for filling purpose. Filling soil: 238 m ³ Excavation soil: 1043 m ³ . Unused excavation soil will be transferred to the temporary dumping site as agreed with Hong Ha CPC.
Approximate types and quantities of raw construction materials	The quantities of concrete, sand, soil are indicated in the detailed design. The approximate quantities are: S1: 405 m ³ of concrete; about 400 m ³ of stones; 320 m ³ of sand; 137 tons of cement. S2: 218 tons of concrete; 197 m ³ of stones; 181 m ³ of sand; 69 tons of cement

DATA ITEMS	SUBPROJECT DATA
Quantity of solid wastes generated during construction (monthly, in m ³) <ul style="list-style-type: none"> - Soil, sand, broken stones... - Domestic wastes 	<ul style="list-style-type: none"> - Consist of: domestic waste, waste concrete - Estimated quantities (per month): Construction waste for both subprojects: 30 m ³ Domestic waste: 450 kg/month (for 30 workers, 0.5kg per day)
List of number and condition of construction vehicles and equipment	S1: 02 excavators, 02 bulldozers, 01 leveling, 4 ten tons trucks, 01 5kw generator, 1 10-ton compaction machine, 3 mobile concrete mixing plants, 3 concrete compaction machines, 1 welder, 1 steel cutter, 1 tamping rammer. 20 construction workers S2: 02 excavators, 01 bulldozer, 01 leveling, 3 ten tons trucks, 01 5kw generator, 1 10-ton compaction machine, 2 mobile concrete mixing plants, 2 concrete compaction machines. 15 construction workers The Supervisor will ensure that the above equipment will be in good operating conditions and that the Contractor will maintain it in good condition until the works' completion.
OPERATION & MAINTENANCE ACTIVITIES	
Subproject capacity	Subprojects will: Subprojects will help to facilitate community exchanges and transportation in the region, and promote economic and social development. The main beneficiaries are 42 households (S1) and 50 households (S2) of Hong Ha commune, A Luoi district.
Designed speed	15 km/h
Expected load/Standard load (for truck)	H13-X60 6 tons
Expected number of transportation	< 100 vehicles/ per day as they are mainly serve local people of Pa Ring, A Rom and Pa Hy villages.
Description of maintenance activities	Conduct annual maintenance, detection and timely measures to repair damage (if any) such as subsidence, slump, landslide, do not let erosion due to rain destroy the construction; Apply extra base, curb; dig vertical and horizontal drains; Repair pot-holes, local subsidence, etc. If necessary, communities will be mobilized to support operation and maintenance of culvert and roads; clean grass, clear trees, etc. With roads: Regular maintenance from the district budget. Operations and major maintenance will be funded from the provincial budget. Operation and management cost will be covered by District and Local budget.

DATA ITEMS	SUBPROJECT DATA	
RESETTLEMENT AND LAND ACQUISITION³		
Number of Affected Households (AHs)	None	
Number of severely affected AHs	None	
Number of APs that must relocate	None	
Total land area to be acquired (ha)	Temporary = 0	Permanent = 0
Agricultural land area to be acquired (ha)	Temporary = 0	Permanent = 0
Forestry land area to be acquired (ha)	Temporary = 0	Permanent = 0
Aqua cultural land to be acquired (ha)	Temporary = 0	Permanent = 0
Residential land to be acquired (ha)	Temporary = 0	Permanent = 0
Garden land to be acquired (ha)	Temporary = 0	Permanent = 0
Other land to be acquired (ha)	Temporary = 0	Permanent = 0
SUBPROJECT COST		
Total subproject cost (VND)	S1: 1.800.000.000 VND S2: 700.000.000 VND	

³ This data should be extracted from the subproject Resettlement Plan

Figure 1: Map of subprojects and surrounding area



III. DESCRIPTION OF EXISTING ENVIRONMENT

Table 2: Existing environment

DATA ITEM	SUBPROJECT DATA
SUBPROJECT LOCATION	
Commune(s):	Hong Ha commune
District	A Luoi
Province	Thua Thien Hue
Geographical location:	<p>S1: Start point: End point of an existing Program 135 Concrete Road End point: Connects to NR49, near the bridge over Ung Hoong River</p> <p>S2: Start point: Connects with NR49, near the bridge over A A River End point: At the entrance of Pa Hy village</p>
PHYSICAL ENVIRONMENT CONDITIONS	
Air quality	The subprojects locate in mountainous area, near the large water bodies with open air and low traffic density. There is no trace of air pollution in the subproject area.
Noise and vibration	Through observation, although two subproject roads connect to NR49 but the traffic frequency is low and noise, vibration levels are also low.
Climate and natural disasters	<p>- Like the other areas of the district, Hong Ha commune is also influenced by the tropical monsoon, in the transition zone of Northern and Southern climate. The annual average temperature is about 22°C - 25°C, with lowest temperature is varied from 7°C to 12°C and the highest temperature varied from 34°C to 36°C. The average humidity is 86%-88%.</p> <p>- The average rainfall is varied from 2900-5800 mm divided into two seasons. Rainy season: from September to December with rain mainly concentrate in October to December lead to flash flood and inundation. Dry season last from May to August; less rain and the district usually suffer from dry and hot wind from the West that lead to last long dry period and even drought.</p> <p>- The subproject areas locate in a dense river network area with Ung Hoong and A A Rivers as well as Huong Dien Hydropower Reservoir.</p>
Topography and soils	<p>A Luoi is a mountainous district; locate in the West of North Truong Son Range. The average elevation of the district is 600-800 above Mean Sea Level and the average slope ratio is 20-25°.</p> <p>Hong Ha commune is lying in the East of Truong Son Range with abrupt topography, high slope, difficult for the movement of people.</p>
Water Bodies	The largest water body in the subproject area is Huong Dien Hydropower Reservoir with the capacity of over 800 million cubic meters, locates near S1
Underground water	There is no data related to underground water in the subproject area. Local people is not using under groundwater for living and the implementation of the subproject will not impact on the underground water quality.
Water resources and quality	<p>- Surface water quality:</p> <p>There is no data related to surface water quality in the subproject area but according to the result of surface water quality monitoring of Thua Thien Hue</p>

DATA ITEM	SUBPROJECT DATA
	2014, the water quality of Bo River (the main water source for Huong Dien Reservoir) is still in good and there is no trace of pollution. Local people take water in the streams in mountainous areas and let water flow through gravity water pipe system to their house.
Flooding	The main flood season is from October to December. Flash floods and landslide are usually happen in the river/ stream network.
Terrestrial flora and fauna	A Luoi Protection Forest has the total area of 17,422 ha. There is no plant or animal species in the protected list of the forest. A Luoi Protection Forest is also play an important role in water reserve for the Bo River, its branches like A A and Ung Hoong Rivers and Huong Dien Reservoir in the subproject area. There are many varieties of plant species in the subproject area, but no rare or endemic species are recorded. Sao La Reserve locates in Quang Nam and Thua Thien Hue Provinces to protect the endangered and specific mammal - Sao La. In Thua Thien Hue, it occupied an area of 121 km ² , mainly in A Luoi district. The distance from the Reserve to the subproject area is about 15 km. However, no rare animals were detected in the subproject area. A Luoi Protection Forest
Aquatic flora and fauna	- The fisheries sector of the commune was not an advantage to develop because of the steep topography. - In the subproject area, there are no rare or endangered species recorded in Vietnamese Red Book.
Protected areas	A Luoi Protection Forest locates 600 m from S2. However, the implementation of the subproject will not create large impact on the forest as NR49 running between S2 and A Luoi Protection Forest.
SOCIO-ECONOMIC CONDITIONS	
UXO	The main construction activity of the subprojects is concrete the old earth road base on the existing road foundation so there is no potential of UXO left.
Land use	Most of the land of the commune is forest. Total natural area of the commune in 2013 is 183 km ² The production area is small and separated. Local people plant Acacia and rubber for production forest. The main crop types are water rice, corn, cassava, vegetable, and banana... The main breeding is water buffaloes, cow, goat, pig and poultry.
Nearest residential land	Around the ending point of the S2 is Pa Hy village with some houses locate along the road (about 20 m)
Infrastructure	There is no local infrastructure system locate in the subproject road.
Agriculture and aquaculture	-Agriculture: rice, corn, cassava, banana... -Aquaculture: fish in ponds combined with ducks, etc.
Population	It is estimated that the subproject will generate benefit directly for local people of 50 households in Pa Hy village (S2) and 42 households in Pa Ring and A Rom villages (S1), belong to Hong Ha commune
Ethnic minorities	In the subproject area, 95% of the local people are Pa Co ethnic minority. Other ethnic groups are Co Tu and Kinh
Livelihoods	The main livelihoods are the agricultural and forestry sector (95%).
Physical and cultural heritage	None.
Public health	National health programs and disease prevention implemented well. Only a few cases of poor food safety and hygiene

IV. ENVIRONMENTAL IMPACTS SCREENING

Table 3: Environmental impacts screening

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFIC ANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Pre-Construction Stage Impacts					
Disturbance of UXO	NO				The subproject is upgraded based on the existing foundation with out expand to both sides of the road. There is no potential of UXO left in the subproject area.
Effects on households from loss of residential or agricultural land	NO	NO	NO	NONE	Upgrading road, position adjusted in some cases to suit the actual terrain. The old road is large enough to be upgraded, so it is not necessary to acquire more land, for construction.
Construction Stage Impacts					
Dust, vegetation clearing, noise, water quality or other impacts from quarries for of mining at construction materials sites.	NO	NO	NO	NONE	The total amount of construction material is small, estimated only about 1110 m ³ of filling soil for both subprojects; 600 m ³ of stones and 500 m ³ of sand and the contractor will purchase these material from authorized mines so the impact is negligible.

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction	YES	MEDIUM	NEGATIVE	TEMPORARY	<p>Description: Run off water when its rain could bring debris, waste and silt into nearby water bodies, especially Huong Dien Reservoir; A A and Ung Hoong Rivers. This will reduce the water quality and indirectly impact on local people who mainly using water from rivers/ streams for living.</p> <p>Locations: Water bodies in the subproject area; Huong Dien Reservoir; A A and Ung Hoong Rivers.</p> <p>Objects: surface water quality of Huong Dien Reservoir, A A and Ung Hoong Rivers; local people in Pa Hy, Pa Ring and A Rom villages.</p> <p>Level: This is an medium impact. Although the scale of the subproject is small, the construction will be mainly manual works but S1 is located close to Huong Dien Reservoir and large amount of soil from cassava hill must be excavated (about 19000 m³) for leveling purpose. Impact on surface water quality Huong Dien Reservoir and Ung Hoong River will directly impact on the health of local people in Pa Ring, A Rom villages and other villages in Hong Ha commune as the river; stream water is the main water supply source for local people.</p> <p>Duration: estimated 2 months.</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	YES	MINOR	NEGATIVE	TEMPORARY	<p>Description: Dust, noise and vibration from the operation of construction machines and transportation vehicles could impact on health of local people whom living near the subproject area.</p> <p>Locations: Pa Hy village locate near the end point of the S2. Pa Ring and A Rom villages locate near the start and end point of S1.</p> <p>Objects: Local people living in Pa Hy, Pa Ring and A Rom villages</p> <p>Level: This is a minor impact as the construction time is short and number, capacity of the construction machines is small. The subproject is located in mountainous area with very low population density, dust will disspread soon into the open air. Although large excavated soil in S1 could generate dust and reduce ambient air quality but S1 locate near large water bodies of Huong Dien Reservoir and Ung Hoong River so the impact is negligible</p> <p>Duration: estimated 2 months.</p>
Poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations?	NO	NO	NO	NONE	<p>Worker living in worker camp in poor hygiene conditions so some kind of diseases such as skin diseases could be out broken. STI's and HIV/AIDS could be transmitted from workers to local people, as workers are mainly male workers. However, the number of worker is small (about 30 workers for both subproject construction site) and the construction time is short (about 2 months) so the impact is negligible. Moreover, some of the workers could be local people, as the contractor will recruit local people for simple works.</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Disruption to traveling of local peoples and/or their access to paddy field and production area	YES	MINOR	NEGATIVE	TEMPORARY	<p>Description: The construction of the two roads including concrete the roads surface, transport materials, equipment arrangement will limit the movement of local people to their production area (S1) or travelling home, access public services in Hong Ha commune center (S2).</p> <p>Locations: Along the subproject roads of S1 and S2.</p> <p>Objects: Local people living in Pa Hy, Pa Ring and A Rom villages.</p> <p>Level: This is a minor impact as the construction time is short and number, capacity of the construction machines is small. The local population density is also low as 42 and 50 households for S1 and S2 respectively. Moreover, the main transportation means is motorbike and the roadsides are large so local people could easily find our other ways for travel.</p> <p>Duration: estimated 2 months.</p>
Increase duration and area of flooding.	NO	NO	NO	NONE	Construction work will not increase the duration and extent of flooding due to construction works are implemented in a short period and mainly in dry season based on the existing road foundation.
Interferes with infrastructure such as communication or electricity infrastructure	NO	NO	NO	NONE	There is no other infrastructure locates along the subproject road.

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Social disruption caused by construction workers	NO	NO	NO	NONE	Only small number of workers (20-30 workers) and the contractor will recruit some local people for simple work so the impact is negligible.
Health or safety risks to public or construction workers	YES	MINOR	NEGATIVE	TEMPORARY	<p>Description: The main sources of health and safety risks include: i) construction machines and equipment are arranged along the roads cause obstructing the travelling of local people and endangering the traffic; (ii) risk of unsafe traffic conditions on both S1 and S2 due to operation of transport vehicles; (iii) dust and noise from construction machines and material transportation will have impact on the workers and daily life of local people in the subproject area (iv) risk of site incidents due to improper use of equipment.</p> <p>Locations: Along the subproject roads of S1 and S2; Residential area of Pa Hy, Pa Ring and A Rom villages</p> <p>Objects: Construction workers and local people in Pa Hy, Pa Ring and A Rom villages.</p> <p>Level: This is a minor impact as the construction time is short (2 months) and number, capacity of the construction machines is small. Small number of worker (20-30 workers) and the local population density is also low as 42 and 50 households for S1 and S2 respectively.</p> <p>Duration: estimated 2 months.</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Disposal of solid wastes generated by construction activities or municipal wastes generated from construction camps	NO	NO	NO	NONE	Only small number of workers (20-30 workers) and the contractor will recruit some local people for simple work so the impact is negligible.
Operation phase					
Change accessibility to local services.	YES	SIGNIFICANT	POSITIVE	PERMANENT	The completion of the subproject will support local people in Pa Hy village more convenience on movement, goods exchange and access Hong Ha commune center. People of 42 households in Pa Ring and A Rom villages could access to their cultivation area and commune center in all kind of weather
Employment or livelihood benefits from employment of local people	YES	SIGNIFICANT	POSITIVE	PERMANENT	Location: subproject area in Hong Ha commune. S2 upgrading road to Pa Hy village and S1 upgrading road to the cultivation area of Pa Ring and A Rom villages will reduce poverty through provide new access for the local people to the cultivation areas, centers, markets and other social services therefore, reduce the pressure on the forest.
Impacts on ethnic minorities	YES	SIGNIFICANT	POSITIVE	PERMANENT	As nearly 100% of people in Hong Ha commune is Pa Co ethnic minority, the completion of the subproject will support them in goods exchange and access to commune center, steadily improve incomes and living standards

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Changes to traffic safety	YES	MINOR	NEGATIVE/ POSITIVE	PERMANENT	<p>Description: The completion of the road will increase the traffic frequency and the speed of the motorbike travel on the road will also increase. The risk of traffic accident, especially at the junctions of S1 and S2 with NR49. On the other hand, the better road surface condition will make the road less slippery and decrease the risk of road accident.</p> <p>Locations: A long the subproject roads especially at the junctions with NR49.</p> <p>Objects: Local people living in Pa Hy, Pa Ring and A Rom villages and other people whom doing business with these villages of Hong Ha commune.</p> <p>Level: The negative impact is a minor impact as the traffic frequency of NR49 is not high. The main vehicles on the subproject roads are motorbikes and population density of the subproject villages are low (only 92 households in total).</p>
Noise and vibration impacts, changes in dust levels or air quality from increased traffic volumes	NO	NO	NO	NONE	<p>The subproject roads connect with NR49 but the traffic frequency is low. People using the road are mainly local people in Pa Hy, Pa Ring and A Rom villages. The main transportation type is motorbike in a small number and the subproject locates in mountainous area with a lot of large water bodies so the impact is negligible</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	IS IMPACT LIKELY TO OCCUR - YES / NO?	IS IT MINOR OR SIGNIFIC ANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Changes to access to natural resource	NO	NO	NO	NONE	A Luoi Protection Forest is about 600 m from S2. However, the completion of the road will not make more convenient for forest encroachment as the S2 and A Luoi Protection Forest locate on two sides of NR49. On the other hand, there are no specific or endangered animal/ trees in the subproject area. The road will be concrete with only 3.5 m surface width that only suitable for motorbike.

V. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

A. Environmental Mitigation Plan

Table 4: Environmental mitigation plan

Potential Impact	Mitigation Measure	Responsibility	Cost (Price unit)
Construction Phase			
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction	Store chemicals (oil, lubricants, etc.) for construction in a secure place with impervious floor and roof cover to avoid rainwater and flooding. No temporary material stockpile near Huong Dien Reservoir, Ung Hoong and A A Rivers (50 m)	Contractor	Includes contract in with contractor
	Ensure vehicles and equipment are maintained in good condition	Contractor	
	Regularly collecting waste land to avoid sedimentation;		
	Wash construction vehicles and equipment near Huong Dien Reservoir, Ung Hoong and A A Rivers shall not allow avoiding pollution by lubricating oil from washing.		
	Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on wastewater and hazardous wastes;	Contractor	
	Regularly collect and dispose-off the wastes.		
Install sediment ditches at the construction site near Huong Dien Reservoir, Ung Hoong and A A Rivers. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Hong Ha CPC.	Contractor		
Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	Inform construction schedule and scope to Hong Ha CPC and local people in Pa Hy, Pa Ring and A Rom villages in advance; Ensure equipment and vehicle maintenance is in good condition; Cover all trucks carrying raw materials to and from the construction sites and along NR49 with canvas; Watering the construction sites of road section in dry and low humidity days,	Contractor	Includes contract in with contractor

Potential Impact	Mitigation Measure	Responsibility	Cost (Price unit)
	<p>increasing the frequency of watering when passing through Pa Hy, Pa Ring and A Rom villages at least one time/ day.</p> <p>Mobile concrete mixing plants to be arranged a distance of 100 m away from Pa Hy, Pa Ring and A Rom villages</p>	<p>Contractor</p> <p>Contractor</p>	
Disruption to traveling of local peoples and/or their access to paddy field and production area	<p>Inform construction schedule and scope to Hong Ha CPC and local people in Pa Hy, Pa Ring and A Rom villages through informal public consultation or any local people meetings and notice board in Hong Ha CPC;</p> <p>Arrange construction material neatly along the route and complete construction section by section to reduce the impact period;</p> <p>Avoid material transportation in the rush hours when children go to Hong Ha Primary and Secondary schools (S2)</p>	<p>Contractor</p> <p>Contractor</p> <p>Contractor</p>	Includes in contract with contractor
Health or safety risks to local people or construction workers	<p>Provide sufficient labor safety to workers such as safety clothes safety boots, helmet, gloves, mask... and train workers how to use them properly and patrol regularly to ensure compliance;</p> <p>Set up warning sign boards and lighting system at night time for the construction site to prevent traffic accident;</p> <p>Set up barricades, fences at the construction site to prevent unauthorized trespass;</p> <p>A first aid kit will be provided for both S1 and S2 construction sites to ensure patient will receive first aid timely before transporting them to Hong Ha Medical clinic;</p> <p>Collaborate with Hong Ha Medical Clinic to receive additional support.</p>	<p>Contractor</p> <p>Contractor</p> <p>Contractor</p>	Includes in contract with contractor
Operation phase			
Changes to traffic safety	<p>Install road humps, warning signs at the junctions with NR49, section passes through Pa Hy, Pa Ring and A Rom villages;</p> <p>Limit the speed of motorbike on the road in accordance to traffic law, especially at the starting point;</p> <p>Regularly maintain the road and repair small damage in time.</p>	Commercial and Trade Division of A Luoi District	In the operation budget of the Division

B. Environmental Monitoring Plan

1. Environmental Compliance Monitoring

- Environmental compliance monitoring is carried out to test the compliance with operating procedures, technical standards and/or contractor specifications in the EMP.

Table 6: Environmental Effects Monitoring Plan

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Construction Stage						
Minimization of noise generation	Noise level	At end point of S2 (Pa Hy village), Pa Ring and A Rom villages	Observation and community consultation	Weekly, monthly or when community's feedback is raised	Construction supervision consultant	Included in the Contract signed with PPMU
				Monthly during construction duration or if there is feedback about high noise levels from the community	Environmental Officer at PPMU	PPMU Operation budget
Minimization of dust generation	Dust concentration	At end point of S2 (Pa Hy village), Pa Ring and A Rom villages	Observation and community consultation	Weekly, monthly or when community's feedback is raised	Construction supervision consultant	Included in the Contract signed with PPMU
				Monthly during construction duration or if there is feedback about high dust concentration levels from the community	Environmental Officer at PPMU	PPMU Operation budget
Control of surface water quality	Sedimentation, rubbish, lubricating oil and solid waste	A A Bridge (near the start point of S2); Huong Dien Reservoir -	Visual observation; Public consultation	Weekly and after the heavy rain events	Construction supervision consultant	Included in the Contract signed with PPMU

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
		at the area near the start point of S1		Once during the construction phase or in case of complaints of residents	Environmental Officer at PPMU	PPMU Operation budget

Table 7: Environmental Compliance Monitoring Plan

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Construction Stage						
Storage of materials, construction sites and worker camps conditions; waste disposal impact on water quality	Condition of material stockpile, construction camp, waste disposal area	Overall construction area	Observation and community consultation	Monthly or after heavy rainfall, flood	Construction supervision consultant	Included in the Contract signed with PPMU
Labor safety and community safety	Number, use of labor equipment; signal system; obey for traffic law of transportation vehicles	In construction site and on material transportation road	Observation and community consultation	Weekly/ Monthly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ Environmental Officer at PPMU	Included in the contract signed with PPMU
Worker and local people safety	Proper work and health safety measures implemented	Overall construction area.	Observation and community consultation	Monthly	Construction supervision consultant	Included in the Contract signed with PPMU

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Control dust, noise and vibration generated from construction activities	Measures implemented to minimize dust, noise and vibration generated from construction activities	Overall construction area.	Observation and community consultation	Monthly	Construction supervision consultant	Included in the Contract signed with PPMU
Control soil erosion, sedimentation	Measures implemented to minimize soil erosion and sedimentation due to construction activities	Overall construction area, especial the end point of S1, close to Ung Hoong River.	Observation and community consultation	Weekly or after heavy rainfall, flood or when community's feedback is raised	Construction supervision consultant	Included in the Contract signed with PPMU

C. EMP Implementation Arrangement

Table 8: EMP implementation

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
CPMU	Provide advice to PPMU Safeguards Officer on Initial Environmental Examination (IEE)/ Environmental Protection Plan (EPP) and Environmental Monitoring Report Review and provide “no-objection” on IEE submitted by PPMUs	Provide advice to PPMU Safeguards Officer on EMP implementation during construction Monitor progress during construction Consolidate PPMU environmental reporting	N/A
A Luoi DPC/ DPIU	Sign-off on environmental assessment documents prior to submission for approval Approval of any subprojects requiring EPP	Monitoring implementation of EMP through their own internal monitoring system	Project owner with responsibility for operation stage environmental performance including implementation of EMP during operation

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
			Monitoring implementation of EMP through their own internal monitoring system
Thua Thien Hue PPMU	Engage consultant and have overall responsibility for IEE/EPP preparation and submission for approval Ensure staff are adequately trained in environmental issues	Responsibility for EMP implementation during pre-construction and construction Ensure that contract specifications and bid documents include environmental requirements Undertake inspections and monitoring of environmental issues during construction Coordinate environmental monitoring reporting to CPMU	Responsibility for EMP implementation during first year of operation Undertake inspections and monitoring of environmental issues during first year of operation Assist project owners to incorporate environmental requirements into infrastructure O&M procedures
Construction supervision consultant	n/a	Implement independent environmental monitoring at subproject area on monthly basis. Monitoring results will be included in the report that will be sent to PPMU once a month.	n/a
Commune Supervision Board (CSB) and local community members ⁴	Involvement in consultation and participation activities to identify and develop subprojects Ability to comment on environmental assessment documentation upon disclosure	Involvement in environmental monitoring activities	N/A
Construction contractor	n/a	Allocate adequate resources to meet the requirements	n/a

⁴ CSB is established according to Decree 29/2011/ND-CP of GOV. Article 8 of this decision provides the community with opportunities to inspect compliance, monitor implementation and evaluate the results of investments in the commune, including environmental impacts.

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
		and obligations of Site EMP	
Commercial and Trade Division of A Luoi District	n/a	n/a	Responsible for the management of subproject in the operation phase

D. Monitoring and Reporting system

Table 9: Monitoring and reporting system

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom
Construction	EMP Compliance Report indicating compliance with all subprojects' EMPs and monitoring results	Monthly	Construction Supervision Consultant	PPMU
	EMP Compliance Report indicating compliance with all subprojects' EMPs and monitoring results	Quarterly	PPMU	CPMU
	Subproject Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of subproject	CPMU	ADB

E. EMP budget

Table 10: EMP budget

Item	Marginal Costs for Pre-Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
Mitigation				

L2721-Vie - Greater Mekong Subregion Biodiversity Conservation Corridors Project - Vietnam Component (BCC)
 Pa Ring - A Rom Inter-village Path & Internal Path in Pa Hy Village Subprojects, Hong Ha Commune, A Luoi District, Thua
 Thien Hue Province - Initial environmental examination (IEE)

Item	Marginal Costs for Pre- Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
Compensation and land clearance	In a separated item on project compensation and resettlement	No	No	Included in other items
Monitoring				
PPMU's Internal monitoring	Included in management cost of PPMU	PPMU's management cost	Budget of Project supervision	
Construction Supervision Consultant	n/a	Included in a separate contract with CPMU	n/a	Included in contracts or other operation capital sources
Training on capacity enhancement on environmental monitoring capability	n/a		Local budget regulated on the Decree No 18/2015/ND-CP)	n/a

VI. PUBLIC CONSULTATION AND DISCLOSURE ACTIVITIES

A. Description of Activities to Date

Table 11: Public consultation and disclosure activities

CONSULTATION METHOD	DETAILS OF ACTIVITIES	
Correspondence and meetings with local authorities (Hong Ha CPC)	Date of correspondence	May, 2016
	Dates of meetings (if requested)	June, 2016
	Minutes of meeting attached (Yes / No)	Yes
Public meeting	Date(s) held	9/6/2016;
	Location(s) held	Meeting room of Hong Ha CPC, A Luoi district
	Invitees	Representative of Hong Ha CPC, village heads, Fatherland front, Farmer Association, farmer union
	Methods of invitation	Radio announcement and letter, coordinate with CPC to mobilize women's participation in meetings
	Agenda attached (Yes / No)	Yes
	Minutes of meeting attached (Yes / No)	Yes
	Number of attendees	10 people (8 males; 2 females)

B. Outcomes of public consultation to date

Table 12: Results of public consultation

Hong Ha commune		Date: 9/6/2016	
Participants	Topic	Concerns of EM people	Future Action plan
Representatives of the following organization: Thua Thien Hue PPMU, other	Environment safety	- Impacts from temporary storage site for construction materials,	The Contractor shall: <ul style="list-style-type: none"> Provide public information for local people on construction conditions; Do not storage excavated soil for long time, transfer it as soon as

Hong Ha commune		Date: 9/6/2016	
Participants	Topic	Concerns of	Future Action plan
relating units. - People's Committee, Village Heads...		including: dust, noise.	possible to disposal site; <ul style="list-style-type: none"> Minimize quantity of construction materials that keep in temporary storage; Ensure that all machines are in good operation condition
		Air pollution due to dust, exhaust fume and noise during transportation of material and construction machines	<ul style="list-style-type: none"> Ensure that construction equipment and vehicles are regularly maintained and having certificate Progress and construction plan was widely informed to the village community at least 10 days prior to construction. Collecting information and feedback from the community

VII. GRIEVANCE REDRESS MECHANISM

5. During the deployment of the subproject, local people are disseminated environmental protection activities such as EMP. Negative impacts on the environment may occur during the construction and operational phases. Any comments/ suggestions of local people will be solved quickly, transparently and protected by law, particularly for affected people by the subproject. Complaint handling mechanism was classified by level and responsibilities of involved parties.

6. Per the environmental management frame, there are 03 steps to redress complaint as below:

- **Stage 1:** If a household has any complaint he/she can submit a complaint in the written or verbal forms to the representative of Hong Ha CPC (usually the Deputy Chairman of the CPC). CPC will work with Construction Supervision Consultant and Environmental Officer of PPMU to solve complaints and representative of the Hong Ha CPC will response in written form to the complainant.
- **Stage 2:** If the complaint is not resolved within 7 days, the complainant will submit an application to A Luoi DPC to resolve the complaint.
- **Stage 3:** If more than 10 days but no official response in written form from A Luoi DPC, the complainant may submit a complaint in the written form to the Thua Thien Hue PPC (through Thua Thien Hue DONRE). Thua Thien Hue PPC will require A Luoi DPC to solve the complaint. In case the complaint is still not resolved, Thua Thien Hue PPC will require environmental police to investigate and requested stakeholders to resolve the complaint.
- If efforts to resolve disputes using the grievance procedures remain unresolved or unsatisfactory, APs have the right to directly discuss their concerns or problems with the ADB Southeast Asia Department through the ADB Viet Nam Resident Mission (VRM). If APs are still not satisfied with the responses of VRM, they can directly contact the ADB Office of the Special Project Facilitator (OSPF).

VIII. CONCLUSIONS AND RECOMMENDATIONS

7. The subprojects of "Pa Ring - A Rom Inter-village Path" and "Internal Path of Pa Hy Village" in Hong Ha Commune, A Luoi District, Thua Thien Hue Province is being implemented by Thua Thien Hue PPMU, as a part of the BCC project.

8. An environmental assessment of the project has been carried out and the main potential environmental impacts of the sub-project during construction phase are:

- (i) Deterioration of surface water quality due to silt runoff and sanitary wastes from worker camps and chemicals used in construction.
- (ii) Increased local air pollution due to rock crushing, cutting and filling works, noise and vibration due to material transportation and operation of construction machines.

9. The main potential environmental impacts during the operation phase are:

- (i) Changes to traffic safety.

10. A range of mitigation and monitoring measures has been developed for the sub-project, which have been described in the Table 4 above.

11. Based on the findings of the environmental assessment and EMP contained in this document, it is concluded that:

The investment on the Subprojects "Pa Ring - A Rom Inter-village Path" and "Internal Path of Pa Hy Village" in Hong Ha Commune, A Luoi District, Thua Thien Hue Province aims to upgrade the existing road system, contribute to social and economic development activities and modernization in rural area, improve the welfare of 92 households of Pa Hy, Pa Ring and A Rom villages, Hong Ha commune, A Luoi district, Thua Thien Hue province, by providing opportunities for rural, commercial, transport and social cultural development. The subproject will improve movements of local traffic, resulting in greater socio-economic effectiveness, contributing to the development of agriculture following Government policies.

Based on the study, the main negative impacts on environment will result from the construction activities and stop in the operation phase.

According to the IEE, Thua Thien Hue PPMU has following suggestions:

- (i) No significant effects on the environment are identified and it is recommended that no further environmental assessment is warranted.
- (ii) Approval of IEE report of the Subprojects "Pa Ring - A Rom Inter-village Path" and "Internal Path of Pa Hy Village as consent for on-going implementation steps and ensures the progress and project effectiveness

APPENDICES

APPENDIX 1: Photographs about existing environment



S1 start point connects with existing concrete road



S1 end point at junction with NR49



Acacia and cassava cultivation area in S1



View from start point of S1 to Ung Hoong River and Huong Dien Reservoir



S2 start point (on the left) and A 3 Bridge over A A River on NR49



S2 end point at the entrance of Pa Hy village

Appendix 2: Public consultation meeting minutes

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập - Tự Do - Hạnh phúc

Hồng Hà, Ngày 2 tháng 6 năm 2016

DỰ ÁN HÀNH LANG BẢO TỒN ĐA DẠNG SINH HỌC TIỂU VÙNG MỀ CÔNG MỞ RỘNG
 - GIAI ĐOẠN 2 (DỰ ÁN BCC)

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG VỀ ĐÁNH GIÁ MÔI TRƯỜNG, TÀI ĐỊNH CƯ VÀ PHÁT TRIỂN DÂN TỘC THIỂU SỐ

Tiểu dự án: Hành lang bảo tồn đa dạng sinh học vùng Mề Công Mở Rộng - A Rom
 Xã: Hồng Hà, huyện: A Lưới, tỉnh: Thừa Thiên Huế

I. Thành phần tham dự

- | | |
|--|--|
| - Ông/Bà: <u>Lê Văn Hải</u> | Chức vụ: <u>KT UBND xã</u> |
| - Ông/Bà: <u>A. Mong Dien</u> | Chức vụ: <u>Chủ tịch UBND xã</u> |
| - Ông/Bà: | Chức vụ: |
| - Ông/Bà: | Chức vụ: |
| - Ông/Bà: | Chức vụ: |
| - Ông/Bà: | Chức vụ: |
| - Ông/Bà: | Chức vụ: |
| - Đại diện những người bị ảnh hưởng: | người (chỉ liệt kê danh sách đính kèm) |

II. Nội dung tham vấn

Chuyên gia môi trường trình bày những tác động môi trường 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.

Chuyên gia tài chính trình bày về những tác động khi thu hồi đất và các tài sản trên đất, những chính sách của Chính phủ nước Cộng hòa xã hội chủ nghĩa Việt Nam và địa phương, chính sách của dự án trong vấn đề bồi thường thiệt hại khi Nhà nước thu hồi đất đai và các tài sản trên đất.

Chuyên gia về cộng đồng, dân tộc thiểu số trình bày về chính sách dân tộc thiểu số của dự án, các tác động xã hội trong quá trình thực hiện dự án. Giới thiệu với cộng đồng về những chính sách của Chính phủ nước Cộng hòa xã hội chủ nghĩa Việt Nam và địa phương về dân tộc thiểu số.

III. Ý kiến thảo luận

III.1 Về các tác động môi trường tiêu cực và biện pháp giảm thiểu

Người dân cho rằng bị ảnh hưởng bởi quá trình tập kết nguyên vật liệu xây dựng, phát sinh bụi, tiếng ồn, mất mỹ quan cảnh quan môi trường, thiếu nước.

Để giảm thiểu các tác động tiêu cực, không nên xây dựng nhà ở người dân trong khu vực đất đai, tập trung xây dựng nhà ở và chuyển đổi đất đai từ khu vực quy hoạch công viên công cộng.

Khu vực đất đai xây dựng với diện tích nhỏ, nên giữ lại khu vực đất đai xây dựng.

III.2 Về các vấn đề thu hồi đất và các tài sản trên đất và các chính sách

Người dân cho rằng bị ảnh hưởng bởi quá trình thu hồi đất đai và tài sản trên đất đai của người dân.

III.3 Về các vấn đề về dân tộc thiểu số

Đa dân cư vùng này vùng dân tộc Pa Co, Pa Dao
 Người dân vùng chủ yếu là nông nghiệp và lâm nghiệp
 đời sống còn gặp nhiều khó khăn do địa thế còn cô lập
 họ người dân đang phát triển sản xuất tiểu thương

IV. Kết luận

Người dân hòa bình và họ chủ yếu
 Khi thực hiện dự án cần có sự phối hợp chặt
 chẽ với chính quyền địa phương để tránh ảnh hưởng
 đến người dân địa phương.

Đại diện Chủ đầu tư

Đại diện cộng đồng

Đại diện tư vấn

Đại diện UBND xã



ĐẠI DIỆN UBND XÃ
 Lê Văn Hại

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập - Tự Do - Hạnh phúc

DANH SÁCH NHỮNG ĐẠI BIỂU THAM DỰ CUỘC HỌP
THAM VẤN CỘNG ĐỒNG VỀ ĐÁNH GIÁ MÔI TRƯỜNG, TÁI ĐỊNH CƯ VÀ
PHÁT TRIỂN DÂN TỘC THIỂU SỐ.

STT	Họ và tên	Địa chỉ	Chữ ký
1.	Lê Văn Hoi		
2.	A. Nhung Tiên		
3.	Hồ Thị Dao	Thôn A Nam	
4.	A. Nhung Khánh	Thôn A Nam	
5.	Hồ Như Thi	Thôn Pa Hy	
6.	Hồ Thị Cu	Thôn Pa Hy	
7.	Hồ Văn Rao	Thôn Pa Hy	
8.	Hồ Văn Hoi	Thôn Pa Hy	
9.	Kau Cu	Thôn Pa Hy	
10.	Nguyễn Thị Nhíp	Thôn Pa Hy	
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STT	Họ và tên	Địa chỉ	Chức vụ	
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Văn Hóa, Ngày 9 tháng 6 năm 2016
 Xác nhận của địa phương

 PHÓ CHỦ TỊCH
 Lê Văn Hài

Appendix 3. Rapid Environment Assessment checklists and Environmental categorization forms

Rapid Environmental Assessment (REA) Checklist

Instructions:

- (i) The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the Environment and Safeguards Division (RSES), for endorsement by Director, RSES and for approval by the Chief Compliance Officer.
- (ii) This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB's (a) checklists on involuntary resettlement and Indigenous Peoples; (b) poverty reduction handbook; (c) staff guide to consultation and participation; and (d) gender checklists.
- (iii) Answer the questions assuming the "without mitigation" case. The purpose is to identify potential impacts. Use the "remarks" section to discuss any anticipated mitigation measures.

Country/Project Title:

L2721-VIE – Greater Mekong Subregion Biodiversity Conservation
 Corridors Project – Vietnam Component

Subproject:

Internal path in Pa Hy village

Screening Questions	Yes	No	Remarks
A. Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas?			
▪ Cultural heritage site		X	
▪ Legally protected Area (core zone or buffer zone)		X	
▪ Wetland		X	
▪ Mangrove		X	
▪ Estuarine		X	
▪ Special area for protecting biodiversity	X		A Luoi Protection Forest is located 1km from the subproject road. But it is located roadside of National Road No.49. The subproject also connects to NR49 from the opposite site.
B. Potential Environmental Impacts Will the Project cause...			
▪ impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to physical cultural resources?		X	

Screening Questions	Yes	No	Remarks
▪ disturbance to precious ecology (e.g. sensitive or protected areas)?		X	
▪ alteration of surface water hydrology of waterways resulting in increased sediment in streams affected by increased soil erosion at construction site?		X	The subproject will upgrade 327.45 m earth road based on the existing foundation so it will neither make change to the surface water hydrology nor increase soil erosion
▪ deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		x	The subproject will upgrade 327.45 m earth road based on the existing foundation, construction time is short (about 2 months), small construction machine (mainly manual work) and number of worker is small (20 workers) so there is no impact to the water quality by silt runoff and sanitary waste
▪ increased air pollution due to project construction and operation?		x	Short construction time (2 months), small construction machine (mainly manual work) and small number of workers (20 workers); the construction site is in the open air, so the impact to air quality is negligible
▪ noise and vibration due to project construction or operation?		x	Short construction time (2 months), small construction machine (mainly manual work) and small number of workers (20 workers) so the noise impact is negligible
▪ involuntary resettlement of people? (physical displacement and/or economic displacement)		x	
▪ disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?		x	
▪ poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations?		x	Short construction time (2 months) and small number of workers (20 workers) so the impact is negligible
▪ creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents?		x	
▪ social conflicts if workers from other regions or countries are hired?		x	Short construction time (2 months) and small number of workers (20 workers) – half of them are local people so the impact is negligible
▪ large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		x	Short construction time (2 months) and small number of workers (20 workers) – half of them are local people so the impact is negligible
▪ risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?		x	

L2721-Vie - Greater Mekong Subregion Biodiversity Conservation Corridors Project - Vietnam Component (BCC)
 Pa Ring - A Rom Inter-village Path & Internal Path in Pa Hy Village Subprojects, Hong Ha Commune, A Luoi District, Thua
 Thien Hue Province - Initial environmental examination (IEE)

Screening Questions	Yes	No	Remarks
▪ risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?		x	
▪ community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?	x		The subproject road has connected to National Road No.49 so the risk of accident is existed. However, the road will support mainly simple transportation form as motorbike of local people and small track of outsider who doing business in the village so the impact is not large.
▪ generation of solid waste and/or hazardous waste?		x	Short construction time (2 months) and small number of workers (20 workers) – half of them are local people so the impact is negligible
▪ use of chemicals?		x	
▪ generation of wastewater during construction or operation?		x	Short construction time (2 months) and small number of workers (20 workers) – half of them are local people so the impact is negligible

A Checklist for Preliminary Climate Risk Screening

Country/Project Title: L2721-VIE – Greater Mekong Subregion Biodiversity Conservation Corridors Project – Vietnam Component

Subproject: Internal Path in Pa Hy Village

Screening Questions		Score	Remarks ⁵
Location and Design of project	Is siting and/or routing of the project (or its components) likely to be affected by climate conditions including extreme weather related events such as floods, droughts, storms, landslides?	0	
	Would the project design (e.g. the clearance for bridges) need to consider any hydro-meteorological parameters (e.g., sea-level, peak river flow, reliable water level, peak wind speed etc.)?	0	
Materials and Maintenance	Would weather, current and likely future climate conditions (e.g. prevailing humidity level, temperature contrast between hot summer days and cold winter days, exposure to wind and humidity hydro-meteorological parameters likely affect the selection of project inputs over the life of project outputs (e.g. construction material)?	0	
	Would weather, current and likely future climate conditions, and related extreme events likely affect the maintenance (scheduling and cost) of project output(s)?	0	
Performance of project outputs	Would weather/climate conditions, and related extreme events likely affect the performance (e.g. annual power production) of project output(s) (e.g. hydropower generation facilities) throughout their design lifetime?	0	

Options for answers and corresponding score are provided below:

Response	Score
Not Likely	0
Likely	1
Very Likely	2

Responses when added that provide a score of 0 will be considered low risk project. If adding all responses will result to a score of 1-4 and that no score of 2 was given to any single response, the project will be assigned a medium risk category. A total score of 5 or more (which include providing a score of 1 in all responses) or a 2 in any single response will be categorized as high-risk project.

Result of Initial Screening (Low, Medium, High): Low

Other Comments: The subproject will pave 327.45m with cement concrete internal road of Pa Hy village, Hong Ha commune, A Luoi district, Thua Thien Hue province. The subproject site is 1km from A Luoi protection forest. However, as the road is connecting to National Road No.49 on the other side of A Luoi Protection Forest, it will not pose any negative impact to the forest in the operation phase. There is a risk of traffic accident during operation phase of the subproject but it is negligible due to low transportation frequency and the transportation means are not large, mainly motorbike of local people and some small truck of businessmen. In the construction time, all impacts are small as construction activities are mainly manual, small number of workers (20 workers) and short construction duration (2 months). Thus, the subproject is categorized as C on environment.

Prepared by: Nguyen Thanh Duong – National Environmental Safeguards Specialist

⁵ If possible, provide details on the sensitivity of project components to climate conditions, such as how climate parameters are considered in design standards for infrastructure components, how changes in key climate parameters and sea level might affect the siting/routing of project, the selection of construction material and/or scheduling, performances and/or the maintenance cost/scheduling of project outputs.

SUBPROJECT ENVIRONMENTAL CATEGORIZATION FORM

<p>A. Instructions:</p> <p>(i) This form is to be completed by the PPMU environment officer with assistance from the NESS and submitted to the Project Director for endorsement before being submitted to ADB for review and approval.</p> <p>(ii) The environment categorization of a subproject is a continuing process. If there is a change in the components or/and site of a subproject that may result in category change, another categorization form should be resubmitted to ADB for review and approval.</p>
<p>B. Subproject Data:</p> <p>Title: Internal path in Pa Hy village, Hong Ha commune, A Luoi district, Thua Thien Hue province</p> <p>Province/District/Village: Thua Thien Hue/A Luoi/Hong Ha Date: May 2016</p> <p>Provincial Project Office: Thua Thien Hue PPMU - Processing Stage: _____</p> <p>Coverage: [1] Province [1] District [1] Village</p>
<p>C. ADB Environment Category: [x] New [] Re-categorization --- Previous Category</p> <p>_____</p> <p style="margin-left: 20px;"> <input type="checkbox"/> Category A <input type="checkbox"/> Category B <input checked="" type="checkbox"/> Category C </p> <p>Comments: This sub-project is ranked as category C. The subproject will involve in paving 327.45m with cement concrete internal road of Pa Hy village based on the existing foundation. The construction time is short (2 months) and work will be done mainly manual with about 20 workers so the impact in general is not large.</p>
<p>Government Environment Category</p> <p style="margin-left: 20px;"> <input type="checkbox"/> Subproject requiring EIAR <input checked="" type="checkbox"/> Subproject requiring EPP </p> <p>Comments: According to Decree No.18/2015/ND-CP dated 14th February 2015 and Circular No. 27/2015/TT-BTNMT dated 29th May 2015, this sub-project will prepare Environmental Protection Plan (KH BVMT). The structure to be applied is in Appendix 5.4 and 5.5 of the Circular No.27/2015/TT-BTNMT.</p>

E. Documents attached: *The categorization will be considered incomplete if proper documentation is not attached.*

Basis for Categorization/ Re-categorization:

- ☒ REA Checklist (must be attached)
☒ Subproject and/or Site Description (must be attached)
☐ Other:

Terms of Reference for IEE:

- ☐ Key issues identified and attached
☐ Under preparation and will be submit

F. ADB Environmental Assessment Requirements

Please check one:

☐ **Category B:**

- Initial Environmental Examination (IEE)
- Public Consultation

☒ **Category C:**

- Review of Environmental Implications

H. Signatures

Please check one:

- ☐ **ADB to approve**
☐ **CPMU Director to approve**

Note: The first categorization of a subproject within a sector will require approval of ADB. If the recommended categorization is approved by ADB, authority for categorization approvals in that sector will be delegated to the CPMU, and all subsequent subprojects categorizations in that sector may be approved by the CPMU Director. ADB will be informed of the results.

CPMU

ADB

Category Assigned by:

Endorsed by:

 Project NESS

 Environment Officer, VRM

Date: _____

Date: _____

Approved by:

Approved by:

 Project Director

 Chief Compliance Officer

Date: _____

Date: _____

Rapid Environmental Assessment (REA) Checklist

Instructions:

- (i) The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the Environment and Safeguards Division (RSES), for endorsement by Director, RSES and for approval by the Chief Compliance Officer.
- (ii) This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB's (a) checklists on involuntary resettlement and Indigenous Peoples; (b) poverty reduction handbook; (c) staff guide to consultation and participation; and (d) gender checklists.
- (iii) Answer the questions assuming the "without mitigation" case. The purpose is to identify potential impacts. Use the "remarks" section to discuss any anticipated mitigation measures.

Country/Project Title:

L2721-VIE – Greater Mekong Subregion Biodiversity Conservation
 Corridors Project – Vietnam Component

Subproject:

Pa Ring – A Rom Inter-village path

Screening Questions	Yes	No	Remarks
A. Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas?			
▪ Cultural heritage site		X	
▪ Legally protected Area (core zone or buffer zone)		X	
▪ Wetland		X	
▪ Mangrove		X	
▪ Estuarine		X	
▪ Special area for protecting biodiversity	X		A Luoi Protection Forest is located 2km from the subproject road. But it is located road side of National Road No.49. The subproject also connects to NR49 via an existing road of 135 program.
C. Potential Environmental Impacts Will the Project cause...			
▪ impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to physical cultural resources?		X	
▪ disturbance to precious ecology (e.g. sensitive or protected areas)?		X	

Screening Questions	Yes	No	Remarks
▪ alteration of surface water hydrology of waterways resulting in increased sediment in streams affected by increased soil erosion at construction site?		X	
▪ deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?	X		The subproject's filling soil for leveling work from hilly terrain could cause deterioration of surface water of the Ung Hoong River and Huong Dien reservoir. The subproject scale will involve about 15 workers in 2 months with half of them are local people so the sanitary waste will not have negative impact to the water quality
▪ increased air pollution due to project construction and operation?		X	Short construction time, small construction machine (mainly manual work) and small amount of workers so the impact to air quality is negligible
▪ noise and vibration due to project construction or operation?		X	Short construction time, small construction machine (mainly manual work) and small amount of workers so the noise impact is negligible
▪ involuntary resettlement of people? (physical displacement and/or economic displacement)		X	No relocation or resettlement in the subproject
▪ disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?		X	The subproject will equally benefit local people
▪ poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations?		X	The subproject construction time is short and the number of worker is small.
▪ creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents?		X	
▪ social conflicts if workers from other regions or countries are hired?		X	Only 15 workers and half of them are local people so it will not make any social conflicts
▪ large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		X	Only 15 workers and half of them are local people.
▪ risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?		X	
▪ risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?		X	

L2721-Vie - Greater Mekong Subregion Biodiversity Conservation Corridors Project - Vietnam Component (BCC)
 Pa Ring - A Rom Inter-village Path & Internal Path in Pa Hy Village Subprojects, Hong Ha Commune, A Luoi District, Thua
 Thien Hue Province - Initial environmental examination (IEE)

Screening Questions	Yes	No	Remarks
▪ community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?		x	The subproject will be implemented in the paddy field area, far from residential area and the construction time is short.
▪ generation of solid waste and/or hazardous waste?		x	Short construction time (2 months), small construction machine (mainly manual work) and small amount of workers (15 workers)
▪ use of chemicals?		x	Short construction time (2 months), small construction machine (mainly manual work) and small amount of workers (15 workers)
▪ generation of wastewater during construction or operation?		x	Short construction time (2 months), small construction machine (mainly manual work) and small amount of workers (15 workers)

A Checklist for Preliminary Climate Risk Screening

Country/Project Title: L2721-VIE – Greater Mekong Subregion Biodiversity Conservation Corridors Project – Vietnam Component

Subproject: Pa Ring – A Rom Inter-village path

Screening Questions		Score	Remarks ⁶
Location and Design of project	Is siting and/or routing of the project (or its components) likely to be affected by climate conditions including extreme weather related events such as floods, droughts, storms, landslides?	0	
	Would the project design (e.g. the clearance for bridges) need to consider any hydro-meteorological parameters (e.g., sea-level, peak river flow, reliable water level, peak wind speed etc)?	0	
Materials and Maintenance	Would weather, current and likely future climate conditions (e.g. prevailing humidity level, temperature contrast between hot summer days and cold winter days, exposure to wind and humidity hydro-meteorological parameters likely affect the selection of project inputs over the life of project outputs (e.g. construction material)?	0	
	Would weather, current and likely future climate conditions, and related extreme events likely affect the maintenance (scheduling and cost) of project output(s) ?	0	
Performance of project outputs	Would weather/climate conditions, and related extreme events likely affect the performance (e.g. annual power production) of project output(s) (e.g. hydro-power generation facilities) throughout their design life time?	0	

Options for answers and corresponding score are provided below:

Response	Score
Not Likely	0
Likely	1
Very Likely	2

Responses when added that provide a score of 0 will be considered low risk project. If adding all responses will result to a score of 1-4 and that no score of 2 was given to any single response, the project will be assigned a medium risk category. A total score of 5 or more (which include providing a score of 1 in all responses) or a 2 in any single response, will be categorized as high risk project.

Result of Initial Screening (Low, Medium, High): Low

Other Comments: The subproject will involve in excavated and filled large quantity of soil and could pollute the surface water of near by Ung Hoang River and Huong Dien Reservoir. Thus, the subproject has categorized as B on environment and an Initial Environmental Examination (IEE) is required.

Prepared by: Nguyen Thanh Duong – National Environmental Safeguards Specialist

⁶ If possible, provide details on the sensitivity of project components to climate conditions, such as how climate parameters are considered in design standards for infrastructure components, how changes in key climate parameters and sea level might affect the siting/routing of project, the selection of construction material and/or scheduling, performances and/or the maintenance cost/scheduling of project outputs.

SUBPROJECT ENVIRONMENTAL CATEGORIZATION FORM

<p>A. Instructions:</p> <p>(i) This form is to be completed by the PPMU environment officer with assistance from the NESS and submitted to the Project Director for endorsement before being submitted to ADB for review and approval.</p> <p>(ii) The environment categorization of a subproject is a continuing process. If there is a change in the components or/and site of a subproject that may result in category change, another categorization form should be resubmitted to ADB for review and approval.</p>
<p>B. Subproject Data:</p> <p>Title: Pa Ring – A Rom Inter-village path, A Luoi district, Thua Thien Hue province</p> <p>Province/District/Village: Thua Thien Hue/A Luoi/Hong Ha Date: May 2016</p> <p>Provincial Project Office: Thua Thien Hue PPMU - Processing Stage: _____</p> <p>Coverage: [1] Province [1] District [1] Village</p>
<p>C. ADB Environment Category: [x] New [] Recategorization --- Previous Category</p> <p>_____</p> <p style="margin-left: 20px;"> <input type="checkbox"/> Category A <input checked="" type="checkbox"/> Category B <input type="checkbox"/> Category C </p> <p>Comments: This sub-project is ranked as category B. The subproject will involve in excavated and filled large quantity of soil and could pollute the surface water of near by Ung Hoong River and Huong Dien Reservoir. Other impacts such as noise, dust, waste from workers during construction period is negligible as short construction time (2 months), small construction machine (mainly manual work) and small number of workers (15 workers)</p>
<p>Government Environment Category</p> <p style="margin-left: 20px;"> <input type="checkbox"/> Subproject requiring EIAR <input checked="" type="checkbox"/> Subproject requiring EPP </p> <p>Comments: According to Decree No.18/2015/ND-CP dated 14th February 2015 and Circular No. 27/2015/TT-BTNMT dated 29th May 2015, this sub-project will prepare Environmental Protection Plan (KH BVMT). The structure to be applied is in Appendix 5.4 and 5.5 of the Circular No.27/2015/TT-BTNMT.</p>

E. Documents attached: *The categorization will be considered incomplete if proper documentation is not attached.*

Basis for Categorization/ Recategorization:

- ☒ REA Checklist (must be attached)
- ☒ Subproject and/or Site Description (must be attached)
- ☒ Other: Initial Environmental Examination report (IEE)

Terms of Reference for IEE:

- ☐ Key issues identified and attached
- ☒ Under preparation and will be submitted on 30 June 2016

F. ADB Environmental Assessment Requirements

Please check one:

☒ **Category B:**

- Initial Environmental Examination (IEE)
- Public Consultation

☐ **Category C:**

- Review of Environmental Implications

H. Signatures

Please check one:

☐ **ADB to approve**

☐ **CPMU Director to approve**

Note: The first categorization of a subproject within a sector will require approval of ADB. If the recommended categorization is approved by ADB, authority for categorization approvals in that sector will be delegated to the CPMU, and all subsequent subprojects categorizations in that sector may be approved by the CPMU Director. ADB will be informed of the results.

CPMU

ADB

Category Assigned by:

Endorsed by:

 Project NESS

 Environment Officer, VRM

Date: _____

Date: _____

Approved by:

Approved by:

 Project Director

 Chief Compliance Officer

Date: _____

Date: _____

