# **Initial Environmental Examination**

June, 2015

VIE: INTEGRATED RURAL DEVELOPMENT SECTOR PROJECT IN THE CENTRAL PROVINCES (Additional Financing)

SUBPROJECT: UPGRAGDING PHO LAI - THANH CAN - NAM DUONG - CO THAP DIKE CUM ROAD, THUA THIEN HUE PROVINCE

#### **CURRENCY EQUIVALENTS**

(as of 25 September 2014)

Currency unit – Vietnamese Dong (VND)

VND 1.00 = \$0.0000471 \$1.00 = VND 21,245

#### **ABBREVIATIONS**

ADB Asian Development Bank

AP Affected persons

CEP Commitment on Environmental Protection

CPC Communal People's committee
CPMU Central Project Management Unit

DARD Department of Agriculture and Rural Development

DONRE Department of Natural Resources and Environment

DPC District People's Committee

EIAR Environmental Impact Assessment Report

EMDF Ethnic Minority Development Framework

EMP Environmental Management Plan

DARD Department of Agriculture and Rural Development

FPD Forest Protection Department

IEE Initial Environmental Examination

IPM Integrated Pest Management

IRDPCP Integrated Rural Development Project in Central Provinces

LIC Loan Implementation Consultant

MONRE Ministry of Natural Resources and Environment

PC People's Committee

PPC Provincial Peoples Committee

PPMU Provincial Project Management Unit

RF Resettlement Framework

SIR Subproject Investment Report

TPC Town People's Committee

UXO Unexploded Ordnance

#### **WEIGHTS AND MEASURES**

km – kilometer

kg – kilogram

ha – hectare

m – meter

#### **NOTE**

In this report, "\$" refers to US dollars.

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### 1. INTRODUCTION

- 1. Loan 2357(SF) for the Integrated Rural Development Sector Project in the Central Provinces (IRDSPCP) was approved by ADB on 15 October 2007. The total cost of the Project was estimated at \$168.2 million and is jointly financed by ADB and Agence Francaise de Developement (AFD). The IRDSPCP focuses on upgrading and rehabilitating rural infrastructure (rural roads and irrigation systems, flood control, markets and other key infrastructure). To date, 129 subprojects have either been completed or are nearing completion. Review missions had determined that the quality of construction of subprojects was good. The executing agency (EA) has developed the expertise needed to effectively implement the project and significant benefits are already accruing.
- 2. At the request of the Government, the potential for additional financing was investigated during the Mid-Term Review in 2011 and two review missions in 2012. About 39 new subprojects were found eligible for consideration in the additional financing. The amount of \$70 million has been recommended and included in the country program for ADB Board consideration in 2013. The IRDSPCP Additional Financing (the Project) aims to rehabilitate and upgrade deteriorated critical productive rural infrastructure in support of the Government of Viet Nam's new National Target Program for Rural Development (NRD).
- 3. In consultation with the relevant provincial government and field investigation by the CPMU, a total of 23-24 eligible subprojects were initially identified based on 7 screening criteria which are focused on social economic development, safeguards, integrated development model, feasibility and sustainability. The types of subprojects are as follows:
  - (i) Small & medium-sized dam and reservoir improvements e.g., spillways, head-works, reservoir walls, and leakage control;
  - (ii) Rehabilitation of primary and secondary irrigation canals and river bank stabilization. Wherever possible key strategic investments such as the lining of critical lengths of canal or the reinforcing of existing water control structures will be chosen; and
  - (iii) Rehabilitation of commune to district, and inter-commune roads to improve linkages between higher level alignments (provincial and national routes) and lower level commune to village and inter-village roads. In addressing key issues of sustainability, designs will take into account the increased intensity and frequency of climatic hazards anticipated to result from global climate change, the local geology and terrain, potential change in utilization patterns (type and volume of traffic), and the longer-term availability of recurrent expenditure for operations and maintenance (O&M).
- 4. As part of the IRDPC, UPGRADING PHO LAI THANH CAN NAM DUONG CO THAP DIKE CUM ROAD subproject will be implemented at Quang Vinh commune, Quang Dien district, Thua Thien Hue province.
- 5. This Initial Environmental Examination/Commitment on Environmental Protection (IEE/CEP) document has been prepared to meet the environmental safeguards requirements of the ADB¹ and GOV². The IEE/CEP contains the following information:

<sup>&</sup>lt;sup>1</sup> ADB Safeguard Policy Statement (2009)

ADD Saleguard Policy Statement (2009)

- (i) Section II contains a description of the subproject;
- (ii) Section III contains a description of environmental conditions in the vicinity of the subproject;
- (iii) Section IV contains a describes potential environmental impacts of the subproject;
- (iv) Section V contains the environmental management plan including mitigation measures, monitoring system and cost estimation for Environmental Monitoring System (EMS) implementation;
- (v) Section VI contains activities description on community consultation and subproject disclosure;
- (vi) Section VII contains conclusion and recommendation including summarization of main impacts and typical mitigation measures in the subproject's implementation.

## 2. PROJECT DESCRIPTION

Table 1. General information of subproject

DATAITEM	CURRED IECT DATA
DATA ITEM	SUBPROJECT DATA
GENERAL INFORMATION	
Subproject Name	Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum road
Subproject Type	Improvement and upgrading
Executing Agency	People's Committee of Thua Thien Hue Province
Sub-project owner	Department of Agriculture and Rural Development, Thua Thien Hue Province
Sub-project Management Unit	PPMU of IRDPCP, Thua Thien Hue Province
Address of PPMU's office	7 Dong Da, Hue City, Thua Thien Hue province
Name and Title of Head of Project owner	Ho Sy Nguyen
	Title : Director
Telephone, fax and email details of Project owner	Tel: 054.3834957; FAX: 054.3834922
Name of Environmental Officer of PPMU	Diep Minh Phong
Telephone, fax and email details of PPMU Environmental Officer	0905979676
SUBPROJECT DESCRIPTION	
New project or rehabilitation project	Improvement and upgrading project
Grade of traffic road (Technical Standard)	Rural road at class A in plain area
Designed velocity (km/h)	15 Km/h
Length and width of road (km)	Upgrading of road with a length of 11.54 km; Width: B road-bed = 5.0m; B road-surface = 3.5m
Road surface (paving asphalt, concrete,	Concrete

DATA ITEM	SUBPROJECT DATA
soil, etc.)	
Number and length of bridge	New construction of a concrete bridge: Nam Duong Bridge Slab bridge, length = 43.8 m; steel reinforced concrete;
Number and dimension of culvert	Round culvert with a diameter of 75-100cm: 44 pcs; box culvert with a dimension of 100x100cm to 250x250cm: 16 pcs. Culverts are steel reinforced concrete;
Width of land clearance area:	Width of existing road varies in 3 - 9m range while the width of designed road is 5 m. Thus, width of clearance area is approximately 0.0 - 2.0 m along the route;
Number of other road cutting the subproject road	Road No.11; 23 concrete roads and 09 earth roads of villages;
	The route is connected to road No.11A at 03 points including K1+673, K3+133 and K5+043; the rest cut 32 residential roads;
Number of flows running through road	
- River	Pho Lai River
- Lake	Not any
- Other flows	More than 05 canals
Number of hills and mountainous running	
roads - Hills	Not any
- Mountains	Not any
Auxiliary Works	04 pumping station with a capacity of 250-720 m3/h
	Canals with a length of 328 m and a dimension of 0.3m x 0.4 to 0.74m x 0.9m
CONSTRUCTION ACTIVITIES <sup>3</sup>	
Commencement date (month/year)	July 2016 (as expected)
Completion date (month/year)	June 2018 (as expected)
Number of workers	About 50 persons
Necessary camps (Yes/No)	Yes, 01 main camp at the proposed bridge and 02-03 camps along the proposed road
Construction in rainy season (Yes/No)	No
Asphalt/concrete mixing plant	No
Location and area of borrow area or description of material source	Phong An commune located at a distance of 12.73 km from the subproject site. The borrow pit is operated in accordance with decision no. 2289/QD-UBND issued by Thua Thien Hue PPC on the 22 <sup>nd</sup> of November 2010.
	- Stone will be taken from Truong Son quarry. It is far from the subproject area about 8 Km. This quarry is operated in

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 $<sup>^3</sup>$  Source: Basic Design Explanation of Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum road Subproject

DATA ITEM	SUBPROJECT DATA
	accordance with the decision no. 2595/QD-UBND issued by Thua Thien Hue PPC on the 21 <sup>st</sup> of November 2007.  - Sand and gravel will be taken from An Lo mine. It is far from the subproject area about 4.2 Km. An Lo mine is operated in accordance with decision no. decision no. 936/QD-UBND issued by Thua Thien Hue PPC on the 29 <sup>th</sup> of May 2012.  - Steel will be taken form Hue city located at a distance of 19 km from the subproject area.  - Cement will be purchased from Van Xa factory located
	6.2km from the beginning of the route or Hue city.
Method on management and balance of excavated soil/surplus soil	The route is upgraded based on the existing one, therefore, the quantity of excavated soil along the route will not great if compared with the compactness soil which is used for upgrading;  Cutting soil: 36,604.28 m³; Filling soil: 76,346.31 m³;
	Surplus soil: 7320.86 m <sup>3</sup> ;
	(20% of excavated soil estimated)  It is expected that the vast majority of this discarded soil will be re-used for leveling off low land in the communities or leveling off ground in other projects
	The rest will be transported to the regulated landfill of Quang Dien town. The area of the landfill is about 3ha and the depth of a cell ranges from 5m to 7m. It is far from construction sites about 7km. An agreement of transportation and disposal construction and domestic waste for the subproject should be prepared and signed by the contractors and the authority before commencing construction;
Type and approximate quantity of raw construction materials	Concrete, estimated volume: 8378.23 m³; Stone: 9478 m³ Steel: 56.300 tons
Quantity of solid waste generated from construction (calculated monthly following m³)  - Soil, sand, debris, etc - Domestic waste	
Number and conditions construction vehicles and equipment	04 bulldozers; 04 excavators; 04 rolling machines; 20 tip trucks, 03 concrete mixers. All vehicles and machines are in good conditions and have registration of periodical

DATA ITEM	SUBPROJ	ECT DATA
	verification	
OPERATION AND MAINTENANCE ACTIV	'ITIES⁴	
Allowed velocity	15 Km/h (in limited conditions	)
Expected trafic volumes in 2015-2035	Car: 05 to 31; Bus: 00; Smatruck: 00; Motorbike: 247 to 10	all truck: 17 to 116; Medium 663; Bike: 325 to 864
Expected load	6 tons	
Expected ratio of vehicles increased	Increased by 5-10% after the	subproject in 2015 - 2035.
Descriptions of periodical maintenance activities	cut off branches of trees and clear; dredge sludge of ditche any broken sign roads and pimplement storm and flood gand update data related to than dood in the subproject a will be provided from the budgovernment.  Annual average cost for Cactivities estimated 770,000, Periodic maintenance:  Periodic maintenance is corroads. Estimated cost for periodic maintenance is corroads.	uard in rainy season; record e bridge and road and storm rea. Fund for these activities get of the town and the local Operation and Maintenance 000 VND aducted every five years for riodic maintenance is 30% of airing some damaged works are. Detailed activities will be inical Report according to the
RESETTLEMENT AND LAND ACQUISITION	ON⁵	
Affected households	32 households of which none families, the handicapped, sin	
Number of severely affected APs	There is no production la household.	nd loss of >10% for any
Number of APs that must relocate	No house/shop shall be reloca	ated or rebuilt at new place.
Total land area to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 1,756 m <sup>2</sup>
Agricultural land area to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 1,150 m <sup>2</sup>
Forestry land area to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 0 m <sup>2</sup>
Aquacultural land to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 0 m <sup>2</sup>
Residential land to be acquired(ha)	Temporary= 0 m <sup>2</sup>	Permanent = 0 m <sup>2</sup>
Garden land to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 606 m <sup>2</sup>

 $<sup>^{4}</sup>$  Source: SIR of Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum road

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<sup>&</sup>lt;sup>5</sup> This data is obtained from Resettlement Plan

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)
Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap road subproject, Thua Thien Hue Province
Integrated Rural Development in Central Provinces Project

DATA ITEM	SUBPROJECT DATA				
Other land to be acquired (ha)	Temporary= 0 m <sup>2</sup>	Permanent = 0 m <sup>2</sup>			
Affected assets	None	Permanent = 0			
SUBPROJECT COST					
Total subproject cost (VND and \$USD)	75,414,938,000VND/ 3,550,0	00USD			

BẢN ĐỒ HƯỚNG TUYẾN 🚬 TIỂU DƯ ÁN: NĂNG CẤP ĐƯỜNG GIAO THÔNG KẾT HƠP ĐỀ NGĂN LŨ PHỔ LAI - THANH CẦN - NAM DƯƠNG - CỔ THÁP XÃ QUẢNG VINH, HUYỆN QUẢNG ĐIỀN, TỈNH THỪA THIÊN HUẾ quality KK1 observation location KK3 KK2 - at Pho Lai temple in QUẨNG ĐIỂN Pho Lai hamlet M CUỐI ĐÊ Pho Lai Nam Dương **Temple** quality Khuông Phố Đông KK2 observation location TRAM BOM SẨM - at residential area . 5 in Thanh Can hamlet xã Quảng Phước ĐOẠN ĐƯỜNG KẾT HỢP ĐỀ NGĂN LŨ KK4 quality KK5 Material KK3 observation location ONG THƯỢNG \* ĐIỂM CƯỚ transportation Phú Lương - at residential area ÉM ĐẦU ĐÊ ĐIỂM CUỐI NHÁNH 2 road 4 Nam Duong NM1 hamlet HI CÂU NAM DƯƠNG quality Thành La Vân TRAM BOM CẦU BẮC VINH KK6 observation location NM2 xom B - at residential area xã Quả The proposed in Co Thap hamlet bridge of Nam TUYẾN NHÁNH VÀO CẦU ĐỰC TRONG Duong Water quality xã Quảng Vinh observation location KK6 at the proposed ĐIỂM ĐẦU NHÁNH 2 bridge of Nam Duong in Pho Lai river Material transportation Material Bố Điển road 6 transportation Water quality xã Quảng observation location xã Qu road 11 MN2 Le Van at the proposed bridge of Bac Vinh in LEGEND: Pho Lai river PROPOSED ROAD PROPOSED DIKE CUM ROAD Material PROPOSED BRANCH ROAD TO DUC TRONG BRIDGE transportation **EXISTING PROVINCIAL ROANDS** road 1A **EXISTING ROUTE** AGRICULTURE LAND PROTECTED BY THE DIKE

Figure 1: Map of Subproject and Surrounding Area

## 3. DESCRIPTION OF EXISTING ENVIRONMENT

Table 2. Environmental baseline

DATA ITEM	SUBPROJECT DATA				
PROJECT LOCATION					
Commune(s):	Quang Vinh				
District:	Quang Dien				
Province:	Thua Thien Hue				
Geographic location:	16 <sup>0</sup> 34'07 <sup>'</sup> N;				
	107 <sup>0</sup> 29'27 <sup>°</sup> E				
PHYSICAL ENVIRONMENT CO	ONDITIONS				
Air quality, noise and vibration	Air quality & noise: Major activities in the subproject area are agricultural production activities There are no industrial parks and factories, thus the air is not polluted. Noise is mainly caused by the activities of local people, such as transporting, farming, aquaculture, etc				
Climate and natural disasters	The climate is divided into two different seasons including rainy and dry seasons. The dry season normally begins January to August and be influenced by southwest wind so the air is hot and dry. The rainy season begins September to December of the following year. Months of September and November usually occur extreme floods while November has a lot of the rains. The average rainfall ranges from 2,500 to 2,700 mm. The highest average annual temperature is 35.9°C and the lowest is 12°C. The annual average temperature of the hottest month is 29.4°C and the coldest month is 19.7°C. The monthly average humidity is 87.0%.				
Topography and soils	This region is a plain area with flat terrain with sand, silt, soil salinity. In subproject area, there are mainly agriculture land, rice and vegetable planting land and forest land.				
Waterbodies	There are Pho Lai river and canals in the subproject area. There is no waste water of the subproject discharging into them. Water of the river and canals is mainly used for agriculture purpose.				
Underground water	Groundwater is at shallow layers. As observed, deep well is 4-6m from the ground surface. Ground water in some places is salinity.				
Water quality	There are some canals and Pho Lai river in the subproject area.				
	There is no data on the water quality in this area but as observed, there are signals of minor contamination caused by sediment, waste and salinity. However, water pollution by solid waste is at low level.				
	+ Vietnam's current standards on surface water quality:				
	- QCVN 08:2008/BTNMT - National technical regulation on surface water quality;				
	+ Vietnamese standard on waste water receiving sources:				
	- QCVN 14:2008/BTNMT National technical regulation on domestic				

DATA ITEM	SUBPROJECT DATA
	waste water; This regulation is applied as a substitution for Standard TCVN 6772:2000 – Water quality – Standard on domestic wastewater in the List of Vietnam's environment standards which must be applied - MONRE's Circular No. 02/2009/TT-BTNMT regarding regulations on evaluation on waste receiving capability of water source.
Flooding	The subproject area is located in the flooding region.
Terrestrial flora and fauna	+ Terrestrial flora: mainly rice field and fruits and vegetables gardens in residential areas; + Terrestrial fauna: buffalo, cow, pig, chicken, ducks, etc. + Terrestrial flora and fauna in subproject area are not listed in Vietnam's Red Data Book.
Protected areas	In subproject area, there is no historical or historical vestiges;
Environmental sensitive points	Pho Lai Temple in Pho Lai hamlet
	Residential areas in Nam Duong, Pho Lai, Thanh Can and Co Thap hamlets
SOCIAL ENVIRONMENT CON	DITIONS
UXO	The existing route is under operation; because the road is upgraded on existing route, there is no possibility of UXO;
Land use	Agriculture land: 1549.52 ha; forest land, residential land and other land: 426.48 ha <sup>6</sup> .
	Land is mainly used for agriculture-forest development;
	Agriculture: mainly plant rice and vegetable, 2 crops/year;
	Forestry: planting Acacia, Eucalyptus, etc.
Nearest residential land	Residential areas are located along the route including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets - Quang Vinh commune; residential land is located at road edge; The distance between residential houses and the subproject road ranges from 3m to 20m;
Rural infrastructure	The road is upgraded on existing route with the different of road width on sections for affects on works like houses at road sides can be minimized; The electric and communication cables were arranged in parallel with the route; therefore, route construction will have affects on some local infrastructure works such as electric cables;
Access to Water Supply & Sanitation and Solid Waste Management	Local people use tap water for domestic purposes with a percentage of 98%. Domestic wastewater is discharged into the ditches in the front of their houses. Recently, there is a proposal of domestic solid waste collection serving households in the project area. In April 2014, the proposal will be implemented. In accordance with the proposal, solid waste will be collected twice or three times per week and transported to temporary waste storages in the commune and then will be sent to the district landfill to treat. The landfill is located at a distance of 7-8 km from the subproject area; <sup>7</sup>

<sup>&</sup>lt;sup>6</sup> Source: CPC of Quang Vinh, Annual report on social economy, Dec 2013

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 $<sup>^{\</sup>rm 7}$  Source: According to Quang Vinh Commune People's Committee

DATA ITEM	SUBPROJECT DATA				
Agriculture and handicraft	+ Agriculture: mainly wet rice, bean, corn, vegetable; + Handicraft: production of rice vermicelli, traditional hat, carpentry;				
Population	Estimated number of beneficiary people: 9422 people. Population density is $477  \text{persons/km2}^8$				
Ethnic minorities	There is not any ethnic group living in the subproject area;				
Livelihoods	+ The main employment of the community is agriculture and handicraft production, occupying 98% of the local population.  + The average income is VND 22 million/person/year;  + The level of poverty (following the new poverty line made by the Government): number of poor households make up 9.12% of the population, mainly including policy families, the handicapped, single/female owned households.				
Physical and cultural heritage	There is no cultural heritage or preservation area in the subproject region;				
Public health	Diseases which often occur in the summer are diarrhea, petechial fever Besides, there are respiratory diseases like sore throat, sinusitis				
Traffic and transportation characteristics	<ul> <li>+ Current traffic volume is small, only serving agriculture, living activities in villages and communes and some construction activities at small scale;</li> <li>+ Main traffic means include bicycles, motorbikes and some transport vehicles in construction activities on small scale;</li> </ul>				

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<sup>&</sup>lt;sup>8</sup> Source: PPMU of Thua Thien Hue province, SIR of Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum Road, 2014

<sup>&</sup>lt;sup>9</sup> Source: PPMU of Thua Thien Hue province, SIR of Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum Road, 2014

Integrated Rural Development in Central Provinces Project

## 4. ENVIRONMENTAL IMPACT SCREENING

Table 3. Environmental impact screening

		POTE	ENTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Pre-Construction Stag	je				
Environmentally responsible procurement and SEMP preparation	Yes	N/A	N/A	N/A	Including environmental requirements in biding documents and civil work contracts will take importance role to fully reflect environmental protection cost of the civil works and engage the environmental responsibilities of civil contractors. Any missing of environmental management cost will create high risks of implementing mitigation measures during the construction phase due to lack of resources and capacity thus, environmental protection cost and responsibility need to involved at the beginning.  More Site Environmental Management Plan (SEMP) will help the contracts deeply understanding on environmental requirement and preparing detail/specific mitigation action on the site, therefore, the an appropriate SEMP will help to implement actual mitigation measures and identify any unanticipated environmental impacts and propose additional mitigation measures.
Plan construction materials management	Yes	N/A	N/A	N/A	Materials Management Plan (MMP) detailing arrangements to be made to facilitate the timely production and supply of construction materials to avoid impacts due to unnecessary stockpiling outside the Project site.

		POTENTIAL IMPACT			
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Plan Spoil and Waste Disposal	Yes	N/A	N/A	N/A	Waste Management and Spoil Disposal Plan is prepared for handling, storage, treatment, transport and disposal of solid and liquid wastes, hazardous materials, hazardous wastes and excavation spoils. Ensuring disposal of excavation spoils will not cause negative visual impacts. The plan will also provide details of a trip ticket system to ensure that contractors dispose excavation spoils in approved areas. Such system will be designed so that the PPMU and construction supervisors could readily monitor the volume and disposal site of excavation spoils, and to ensure that the total volume of spoils disposed will not exceed the maximum capacity of disposal site (landfill). Domestic waste collection and management also need to set plan during this phase to avoid missing implementation resources and sanitation issues on the site.
Disturbance of UXO	No				The road is upgraded on the existing route. Therefore, there will be no possibility of UXO.
Effects on households from loss of residential or agricultural land	Yes	Minor	Negative	Temporary and permanent	<ul> <li>Description: There are 32 households residing in Quang Vinh commune be affected by subproject. The main impacts include loss of 606 m² of garden land, and 1,150m² of agriculture land.</li> <li>Location: Quang Vinh commune</li> <li>Objects: Local households</li> <li>Affected level: The impact is considered not significant since there are no significantly affected households, no one that will require physical relocation, no production land loss of more than 10% of the total. The affected households will received support and compensation for their acquired land from the subproject.</li> <li>Time of impact: Permanent</li> </ul>

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Dust, vegetation clearing, noise, water pollution or other impacts for taking construction materials from borrow areas to construction sites.	Yes	Minor	Negative	Temporary	Description: Stone, sand and soil will be purchased from licensed mines as mentioned above. These mines are operated in accordance with environment protection requirements of Thua Thien Hue DONRE. The owners of these mines take responsibilities for any environmental problems related to vegetation clearing and water quality. Materials from these mines will be transported to construction sites by contractors. Transportation of material to the construction sites will generate noise, dust which affect local residents along transportation routes and near the construction sites.  Location: Filling soil will be taken from Dong Hoc borrow pit, Phong An commune, that have the business license of Thua Thien Hue province, located 12.73 km from the construction site. Transporting roads are concrete (commune's roads) and asphalt (road no.11).  Affected Objects:  The local roads (Phong An Commune in Phong Dien District, Quang Vinh Commune in Quang Dien District and other inter-commune roads).  Local residents along transportation road (NH1A, PR 4, PR 6, inter- commune road, local roads in Quang Vinh, Phong An Communes.  Affected level: Small  Dust and noise will not be seriously affected because (i) loading capacity of vehicles is less than 10 tons, (ii) communal roads are almost structured of concrete with the width of 3-3.5m; (iii) Among the total soil about 54,383.74 m³ must be transported; requires about 08 tip trucks with a capacity of 10 tons/ day within 2 years.  Time of impact: 2 years

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Road upgrading  Erosion or sedimentation caused during clearing or earthworks	Yes	Minor	Negative	Temporary	Description: During the construction of the road, sediments, debris, and other materials may get into Pho Lai river and some canals and water bodies near the proposed road which cause siltation and/or clogging of the river and water bodies. Excavated soil and other debris not properly stock piled or spilled over during transport can be swept by surface water flow towards the river and waterways, causing obstruction to water conveyance along the natural waterways or the river, canals, water bodies as well as the cultivation area. The clogged river and canals may cause flash flooding of the adjacent areas. Covering of the fertile lands with a layer of silt may affect agriculture productivity of the area.  Location: Along the road at Nam Duong, Pho Lai, Co Thap, Thanh Can hamlets – Quang Vinh commune; at proposed Nam Duong bridge location (in Pho Lai river and the left and right banks of the Pho Lai river)  Affected objects:  Loss of topsoil affecting productive land.  Surface water of water bodies along the road  Agriculture field along the road  Local peoples living near Nam Duong Bridge and along proposed road  Affected level: Small  Erosion is not significant because the road will be built based on existing road foundation that will not require large excavation. Major construction works should be done during the dry season, to minimize the impacts, moreover, the impacts will be felt for only a short time period of 24 months  Time of impact: 2 years

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Nam Duong Bridge Construction cross over Pho Lai river  Soil erosion caused by the excavation of foundation. Frosion of river banks at Bridge construction site  The risk of river sedimentation by solid waste: sand, soil, debris that is not collected.	Yes	Minor	Negative	Temporary	Description: During the construction of the bridges, sediments, debris, and other materials may get into Pho Lai river which cause siltation and/or clogging of the rive. Excavated soil and other debris not properly stock piled or spilled over during transport can be swept by surface water flow towards the stream and waterways, causing obstruction to water conveyance along the natural waterways or the river, canals, water bodies as well as the cultivation area. The clogged river may cause flash flooding of the adjacent areas. Covering of the fertile lands with a layer of silt may affect agriculture productivity of the area.  Soil erosion caused by the excavation of foundation of the proposed road. Excavation of foundation of proposed bridge may lead to erosion of banks of Pho Lai river.  Location: Pho Lai River at Nam Duong Bridge site, agriculture area near the proposed road, Pho Lai river near the proposed road.  Objects: Surface-water near the construction site, agriculture land near the proposed road Affected level:  Small  The impact is at small level due to excavated soil volume to be not big as size of bridge is small: length = 43.8 m, wide = 5.0 m (4.5 m of bridge road surface + 2x 0.25 m of bridge side road).  Time of impact: 2 years

		POTEN	POTENTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Soil contamination from spillage of oil or other chemical substances	Yes	Minor	Negative	Temporary	Description: Soil could be polluted due to improper fueling operations and fuel leakages. Potential pollutants from a project of this nature include diesel fuel, lubrication oils from construction vehicles and machinery  Location: Lubricating oil pollution is generated from construction vehicles along the route at Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets and at the proposed bridge location in Pho Lai river − Nam Duong hamlet.  Affected Objects:  Local peoples living near Nam Duong Bridge and along proposed road  Soil quality a long the proposed road and near the fuel storage  Affected level: Small  Number of construction machines is small (04 bulldozers; 04 excavators; 04 rolling machines; 20 tip trucks).  Time of impact: 2 years

		POTEN	ITIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Road upgrading Pollution of surface water or groundwater from waste, chemicals, effluent or disturbance of contaminated soils  Nam Duong Bridge Construction cross over Pho Lai river affects to river water quality, aquatic habitat, waterways due to	Yes	Minor	Negative	Temporary	Description: Potential risk of drilling activities (discharge pollutants such as residual bentonite or cement slurries into Pho Lai river at Nam Duong Bridge construction site) causing water pollution. Improperly stored construction materials, waste, as well as oil spillage from poorly maintained equipment and vehicles can further deteriorate the quality of the stream water. Since the local people mainly use water of Pho Lai river as source for their agriculture production and limited domestic uses, a contaminate river water may severely affect local people in terms of possible losses in livelihood and deterioration of health and sanitation conditions. Wastewater generated by the workers at worker's camp and construction area, if not properly collected and disposed of in a sanitary manner, may mix with surface run off, stream water or stagnant water and public health problems may arise. Similarly, wastewater generated during construction that cannot be drained, may seep into the ground and contaminate the groundwater.  Location:  Pho Lai river, ponds, irrigation canals in Nam Duong, Co Thap, Thanh Can and Pho Lai hamets, along the road in the subproject area.  Pho Lai river at the construction site of the proposed bridge  Affected Objects:  Local peoples living near Nam Duong Bridge and along proposed road  Water quality of Pho Lai river  Affected level: Small  Mainly during earthworks and concrete spills or leaked oil, grease from vehicles.  However, the impacts on the water quality are insignificant as the number of vehicles is small and the construction duration is not long (within 2 years as expected);  Time of impact: 2 years

	POTENTIAL IMPACT				
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Clearing the vegetation cover	No				<u>Description:</u> The road will be upgraded on the existing road foundation thus, it does not require clearing vegetation cover. It only affects some crops in garden land and agricultural area along the road in subproject area. The road is not located in protected area or areas of ecological sensitivity.
Changes of surface water hydrology flooding situation	No				<u>Description:</u> The road is upgraded on existing road. 60 culverts (pipe culverts and slab culverts) and the bridge will be built along the road to ensure drainage standard. Therefore, the subproject will not have affects on drainage and irrigation works along the route.  Foundation of the bridge will be built by in-cast concrete piles so construction activities at the bridge cannot change flow direction of Pho Lai river.
Changes of groundwater dynamics	No				The road does not affect groundwater dynamics in the subproject area.

		POTE	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Air pollution from dust or exhaust emissions (CO, NOx, SOx, etc).		Minor	Negative	Temporary	<ul> <li>Description: Construction activities such as clearance, excavation of foundation, excavation of week soil of the existing road; transport of redundant spoils to the disposal site through unpaved roads, etc. will result in suspend dust particles along unpaved roads used as transport route by construction trucks, as well as generate gaseous emissions (NOx SOx,CO, CO2, etc.) that if emitted near/beside residential areas, can cause health problems to the residents.</li> <li>Location:         Residential area, along the roadsides and location where the bridge to be built including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.     </li> <li>Objects:         <ul> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li>Affected level: Moderate</li> <li>Construction of the road and bridge does not cause serious dust or air pollution because (i) the subproject area is rural, the construction site is spacious, (ii) number of construction machine is not many and distributes over 11.54 km length; (iii) construction duration is not long (within 2 years as expected</li> <li>Time of impact: 2 years</li> </ul> </li> </ul>

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Noise generated from construction equipment	Yes	Minor	Negative	Temporary	Description: Construction activities such as clearance, excavation of foundation, excavation of week soil of the existing road; transport of redundant spoils to the disposal site through unpaved roads, etc. will cause the generation of noise and vibrations to be felt with the construction sites and adjacent areas. Noise and vibration will cause disturbance to the activity of local people.  Location: Residential area, along the roadsides and location where the bridge to be built including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.  Objects:  Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets Affected level: Small  The impact is considered at small level due to (i) The number of construction machine is not great; (ii) Impact of noise to residential areas is mainly caused by the means of materials transportation during the construction along transportation route.  Time of impact: 2 years
Clearing or resource extraction from areas of sensitive vegetation	No				The road does not cross protected area or areas of sensitive vegetation

		POTE	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Changes to road safety / traffic movements, trading activities property access	Yes	Minor	Negative	Temporary	<ul> <li>Description: Construction activities can affect on traveling, transporting goods for local people, disturbance to individual households and cause risk for safety traffic in process transport raw materials.</li> <li>Location: Construction sites along the road, in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li>Objects:         <ul> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li>Pho Lai temple</li> <li>Affected level: Minor due to people can use branch route in the communes to travel during construction. Besides, the road will be divided into many sections and contractors will work section by section.</li> <li>Time of impact: 2 years</li> </ul> </li> </ul>

		РОТЕ	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Causes waste disposal problems from solid waste generated during construction activity or municipal wastes generated in construction camps	Yes	Minor	Negative	Temporary	Description: The construction of the bridge and road, as well as operations of the worker's camp is expected to generate solid waste such as spoil excavation soil and other construction waste mortar, sand, stone, cement packing, commodity goods packaging, etc. and domestic waste from worker's camp which if not regularly collected and properly disposed of, may be carried away by surface run-off into Pho Lai river, irrigation canals. Soil and debris in the river and canals will clog the waterways, deteriorate its water quality, and may cause the over flow of the canal and rivers' banks causing flash flooding during strong rains. Excess soil and debris that gets into the productive agricultural land may reduce the productive areas. If domestic waste from worker's camp is not regularly collected, it may cause health problems for workers and people living near the worker's camp.  Location: Workers' camps at the location of the proposed bridge of Nam Duong in Nam Duong hamlet and along the road, the canals and material stores, and construction sites along the road.  Objects:  Temporary dumping site  Disposal sites  Workers at camp sites and construction sites and camp sites.  Affected level: Small  Solid waste that will be generated from construction mainly includes domestic wastes of workers and scraps of transported soil and stone, debris, mud. Number of worker is not big, total about 50 workers, construction activities mainly include destroying the concrete of existing road surface, grading soil along the route of 11.54km; therefore, generation of construction wastes are not so much about 30.5 m3/month (construction waste) and 750 kg/ month (domestic waste). Besides, construction duration is not long (within 2 years as expected);

		POTE	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Affect rural infrastructure system such as communication system, electricity and water-supply, etc.	Yes	Minor	Negative	Temporary and permanent	<ul> <li>Description: 05 power posts of Thanh Can hamlet are being removed. During this time, the electricity will be cut off. This may affect on people's activities.</li> <li>Location: There are 05 power posts of Thanh Can hamlet removed.</li> <li>Objects: <ul> <li>Infrastructure system in Quang Vinh Commune such as electricity posts</li> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> </ul> </li> <li>Affected level: Small <ul> <li>Affect level is minor because electric posts will be relocated easily near their existing locations.</li> <li>Time of impact: 2 years</li> </ul> </li> </ul>
Employment or livelihood benefits from employment of local people	Yes	Minor	Positive	Temporary	<ul> <li>Description: Contractors will use local laborers for simple works such as smooth the road, moving soil, give priority to poor families, female householders, woman if they need jobs. It aims to raise their income, create more jobs and contribute to hunger elimination and poverty alleviation for community.</li> <li>Location: the subproject areas in Quang Vinh commune.</li> <li>Objects:</li> <li>Local people in the subproject areas in Quang Vinh commune</li> <li>Affected level: Small</li> <li>This is a positive impact; however, it requires the coordination between the contractor and CPC of subproject communes and nearby communes in recruiting local labors. (contractors often prefer to engage their own trained workforces rather than training unskilled laborers)</li> <li>Time of positive impact: 2 years</li> </ul>

		POTE	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Effects on nearby heritage items such as graves, pagodas etc.	No				There are not any national or local heritage items such as pagodas, temples, gravestones nearby the proposed road.
				Temporary	<u>Description:</u> Lining of 328 m of transfer canals and 04 pumping stations requires dry construction area, meaning of stop water flow in the existing canal. There will be a conflict between water demand for agriculture and construction demand during cultivation period and construction time;
		Negativ e	Minor		Location: The proposed canals and downstream cultivation area including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets;
Impacts on irrigation activities	Yes				<ul> <li>Objects:</li> <li>Farmers using irrigation canal's water that affected by construction of transfer canal</li> <li>Cultivated area irrigated by existing canal (180 ha)</li> <li>Affected level: Small</li> </ul>
					Irrigation schedule could be changed flexibly to construction time; The length of canals is very small, just only 328 m and it is expected that they will be completed in a short time. Moreover, local farmers are highly welcomed for canal upgrading, directly support their irrigation works; therefore this impact could be mitigated and impact level is considered at small level;  Time of impact: 06 months

IMPACT/ CONCERN		POTEN	NTIAL IMPACT		
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Construction workers cause social disruption or sanitation/health conditions	Yes	Minor	Negative	Temporary	<ul> <li>Description: Construction workers can cause social effects or disease transmission such as sore eyes, cholera, flu and respiratory problems.</li> <li>Social aspect: some social problems can appear such as gambling, drug addiction, prostitute, violence, conflict amongst workers, or between workers with local people.</li> <li>Workers have to get temporary residence certificate to avoid social disruption in the subproject area.</li> <li>Location: Workers' camps at the proposed bridge location and along the road</li> <li>Objects:</li> <li>Affect directly on workers and indirectly on the community near the construction sites in the residential area in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.</li> <li>Affected level: Impacts may be at unremarkable levels because the number of workers is small.</li> <li>Besides, construction duration is not long (within 2 years as expected);</li> <li>Time of impact: 2 years</li> </ul>

IMPACT/ CONCERN		POTEN	NTIAL IMPACT	-	
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Changes incidence of waterborne disease or respiratory disease	Yes	Minor	Negative	Temporary	<ul> <li>Description: The construction process generated dust, emission from vehicles, machines on the works and due to transport soil, stone. Emission gases could be impact on local people living in the road sides and travelling on the road, and workers. Construction activities could be increase respiratory disease and waterborne diseases such as cough, sneezing, sore eyes, and dengue.</li> <li>Location: Workers' camps and nearby residential area in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.</li> <li>Objects:         <ul> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li>Workers working at the site and living in Camps</li> </ul> </li> <li>Affected level: Small         <ul> <li>The influence level is not significant due to: (i) dust generated to impact locally only (at the construction road); (ii) affected time is short (estimated time is 24 months).</li> <li>Time of impact: 2 years</li> </ul> </li> </ul>
Risks to health and safety of local people and construction workers	Yes	Minor	Negative	Temporary	Description: Dust, exhaust gas and noise generating from earthworks, transporting of material, construction activities and operation of machines, etc. These factors have direct affects on health of workers and local residents;  Material transport and construction activities on the existing road may create the risk of affects on traffic safety and houses structure on road sides especially in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets; Traffic signs and signals are insufficiently arranged, awareness of residents in rural areas on traffic safety is not high. Besides, unsafe of transportation materials will endanger the traffic along the route;  Sewage from construction activities and domestic use of workers. This causes some respiratory diseases for local people as well as workers. Accidents may occur if during the construction, workers are not provided with safety equipment and obey construction regulations.

		POTEN	ITIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
					Location: Residential area near the construction site and along the roadsides including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets. Construction site along the proposed road and the proposed bridge.  Objects: Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets Workers working at the site  Affected level: Small Exhaust fume, dust and noise do not have remarkable affects on residents because of smal quantity, low transport frequency of trucks (08 trips/day) and short construction period (within 24 months as expected) Other impacts mentioned above are insignificant because the contractor will apply measures to mitigate impacts on the environment, on workers as well as local people in the subproject area. Besides, the contractor will provide workers with safety equipment. Number of workers is not great (during construction, there are often fewer than 50 persons). However, the level of contagiousness depends on the control of construction unit and local authority;

IMPACT/ CONCERN		POTEN	NTIAL IMPACT		BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	
Environmental Recovery	Yes	Minor	Negative	Temporary and Permanent	Description: If after completing the construction of the bridge and road, the sites are not cleaned up, construction waste and domestic waste from camp sites will cause pollution for the environment. If contractors do not implement site restoration such as re-planting trees or grass filling up construction pits, removing camp sites in accordance with environmental regulation then environmental problems such as erosion, sedimentation, and accident may occur.  Location: construction sites, disposal areas and borrow areas  Objects:  People living near the proposed road and bridge and disposal, borrow areas  Land and water near the proposed road and bridge and disposal, borrow areas  Affected level: Small  As the amout of waste generated from construction activities and domestic waste is not much about 30.5 m3/month (construction waste) and 750 kg/ month (domestic waste) and it will be collected every week so the remained amount of waste after construction will be small. Camp sites are assumed in small size and in simple structures.  Time of impact: temporary to permanent
Operation Stage		,		<u>'</u>	

		POTEN	ITIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Increases access to markets, schools, employment, health centers' and other facilities?	Yes	Significant	Positive	Permanent	<ul> <li><u>Description:</u> The subproject will bring directly benefits for people in subproject area through facilitating the transport of agricultural products to markets. Therefore, time and cost for transport will reduce. Women and children may also be benefited by improving access to schools and healthcare services, administrative centers.</li> <li>Both women and men have more job opportunities, which help improve their incomes.</li> <li><u>Location:</u> along the road in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets – Quang Vinh commune.</li> <li><u>Objects</u></li> <li>Local peoples living along road in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> </ul>
Changes to road safety	Yes	Minor	Negative	Permanent	<ul> <li>Description: Road with good quality will facilitate the travelling of residents. Traffic volume will be increased together with the economic development in the area. The number of motorbikes, bikes, cars and trucks will be increased; therefore, traffic unsafely possibly happens;</li> <li>Location: Along the road including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.</li> <li>Objects</li> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li>Affected level: Small</li> <li>However, road signs along the road can mitigate traffic accidents so this impact can be controlled and will be insignificant level</li> </ul>

IMPACT/ CONCERN		POTEN	NTIAL IMPACT		
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Noise and vibration impacts, changes in dust levels or air quality from increased traffic volumes	Yes	Minor	Negative	Permanent	<ul> <li><u>Description:</u> Road with good quality will facilitate the travelling of residents. Traffic volume will be increased together with the economic development in the area. The number of motorbikes, bikes, cars and trucks will be increased; therefore, Exhaust gas, noise and vibration will increase. This will affect households living along the route</li> <li><u>Location:</u> Along the road including Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.</li> <li><u>Objects</u></li> <li>Local peoples living along road in in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> <li><u>Affected level:</u> Small</li> <li>This impact is insignificant because (i) residential areas have low traffic volume; (ii) vehicles on road are mainly motorbikes; transport trucks mainly serve agriculture production, the time follow the season; and serve transport for construction at a small scale; therefore, dust and vibration affects will be unremarkable;</li> </ul>
Changes risk of environmental damage from accidents involving spills of chemicals or other hazardous substances	No				Means of transport are mainly bikes, motorbikes, small vehicles, passenger cars. Chemicals and hazardous substances are not transported on the route. Therefore, there is no risk of spills of oil, chemicals or other hazardous substances.
Changes to community structure through severance by road corridors	No				Because the subproject will upgrade the existing road, so the community structure will not change. In fact it can contribute to the improvement of rural infrastructure of Vietnam

IMPACT/ CONCERN		POTEN	NTIAL IMPACT		
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Erosion or scouring at waterway crossings or at areas of locations with soil cutting and filling activities	No				Pho Lai River's banks near the bridge will be reinforced by ripraps in corrdance with the design so that erosion will not occur.
Changes land use adjacent to road	Yes	Minor	Negative/ Positive	Permanent	<ul> <li>Description: <ul> <li>Positive: The development of trading and services (such as women can open some shops or restaurants and men can provide some services such as repairing motorbikes and transporting, etc.) This will help improve economic development in the subproject area and local people's living standards.</li> <li>Negative: This may change the land use structure of roadside area, cause pollution and land dispute, etc if local government's Master Plan is not followed.</li> <li>Location: Along the road sides in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets.</li> </ul> </li> <li>Objects <ul> <li>Local peoples living along road in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> </ul> </li> </ul>
Create water stagnant areas	No				60 culverts are installed across the road, thus water drainage will be fast and no water stagnant area is created. Therefore, this subproject is positive and will help decrease water stagnant areas along the road.
Changes surface water hydrology or flooding patterns	No				Because the road will be upgraded and built on existing ones and 60 culverts will be installed along and across roadsides, so drainage will be better. Therefore, it does not change surface water hydrology or flooding patterns.

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		POTEN	ITIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Causes surface water or groundwater pollution from contaminated road surface runoff	No				The subproject aims to repair and upgrade the road, thus it does not generate much dust and waste as well as leaked oil. Besides, the road will be maintained frequently so during the operation stage of the road, surface water and groundwater in the subproject area not affected.
Changes groundwater dynamics	No				During operation stage of the subproject, groundwater dynamics is not affected.
Cause disruption to isolated communities	No				The subproject does not affect any isolated communities
Change access to natural resources	No				The repairing and upgrading of the road does not affect any natural resources near the subproject area.
Changes to visual amenity / landscape values	Yes	Minor	Positive	Permanent	<ul> <li><u>Description:</u> Landscape along the road can be improved after the road is upgraded because the road will be cleaner and traffic will become more convenient.</li> <li><u>Location:</u> Along the road</li> <li><u>Objects</u></li> <li>Local peoples living along road in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> </ul>

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Employment opportunities for local communities	Yes	Significant	Positive	Permanent	<ul> <li><u>Description:</u> Upon completion, the upgraded road will help promote the economic development for the local area and attract more investment from enterprises and persons, etc. More jobs will be created for local people in the subproject area.</li> <li><u>Location:</u> Local people in Nam Duong, Co Thap, Thanh Can and Pho Lai – Quang Vinh commune and nearby communes.</li> <li><u>Objects</u></li> <li>Local peoples living along road in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets</li> </ul>
Impacts on ethnic minorities	No				There are no impacts on ethnic minorities

		POTEN	NTIAL IMPACT		
IMPACT/ CONCERN	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE ?	IS IT TEMPORARY OR PERMANENT?	BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
Affecting water quality due to the increased volume of pesticide or chemical used for water treatment or increasing the waste water	Yes	Negative	Minor	Permanent	<ul> <li>Description: After constructing the canals, the cultivated area will increase about 6000 ha. Consequently, the quantity of pesticides or chemical fertilizers will be increased.  The amount of pesticides on field surface and drainage system will affect the quality of agricultural land and irrigation water, possibly groundwater. The risk will increase if the management of pesticides is not reasonable.  Location: Irrigation area in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets  Objects  Water quality of irrigation canals  Local farmers using irrigation canal's water  Affected level: Small  The impact can still be regarded as small in view of the traditional methods applied by farmers. Nevertheless, appropriate extension work may need to be pursued by representatives from DARD to provide the local farmers alternative but effective farming practices that do not harm the environment such as organic farming, Integrated Pest Management (IPM) and others.</li> </ul>

# 4. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

# 4.1 Environmental Mitigation Plan

**Table 4. Environmental mitigation plan** 

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
Pre-construction S	tage		tacilities	
Environmentally responsible procurement and SEMP preparation	<ul> <li>EMP is included in tender documents to ensure that mitigation measures are budgeted and to prepare the contractors for environmental responsibilities.</li> <li>Specify in bid document that Contractors shall engage capable and trained staff or site agent(s) to take responsibility for the environmental management and safety issues at the working level and to monitor the effectiveness and review mitigation measures as the sub project proceeds. Contractors recruit qualified staff to oversee implementation of environmental and safety measures specified in the EMP.</li> <li>Any recent recommendations and initiatives from DONRE or other local environmental authorities will be incorporated in the EMP and updated as necessary.</li> <li>Before contracting based on the requirements of the IEE, contractors should prepare SEMPs for implementation by contractors. Such SEMPs shall not be in conflict with any provisions of the EMP in the IEE: Waste Management and Spoil, Disposal Plan, Materials Management Plan, Drainage Management Plan, Erosion Control Plan, Tree-cutting and Replanting Plan, Temporary Transport Management Plan, Utilities and Irrigation Reprovisioning Plan, Noise and Dust Control Plan, and Workers and Public Safety Plan</li> </ul>	Design Consultant, PPMU, Contractor, Environmenta I Consultant		Included in the contract
Plan construction	As planed in design documents, the main construction material will be taken from existing quarries as:	Design Consultant, PPMU		Included in the contract
construction materials management	<ul> <li>Filled soil will be taken from Dong Hoc hill borrow pit in Phong An commune which is operating in accordance with decision no. 2289/QD-UBND issued by Thua Thien Hue PPC on the 22<sup>nd</sup> of</li> </ul>			

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
	November 2010.			
	Stone will be taken from Truong Son			
	quarry and operating in accordance with			
	the decision no. 2595/QD-UBND issued			
	by Thua Thien Hue PPC on the 21 <sup>st</sup> of			
	November 2007.			
	<ul> <li>Sand and gravel will be taken from An</li> </ul>			
	Lo mine and operating in accordance			
	with decision no. decision no. 936/QD-			
	UBND issued by Thua Thien Hue PPC on the 29 <sup>th</sup> of May 2012			
	<ul> <li>PPMU and contractor need to check the</li> </ul>			
	environmental responsibilities of			
	suppliers.			
	In case that, above material sources will be			
	changed, an appropriate material			
	management plan should includie the			
	following:			
	<ul> <li>Required materials, potential sources and estimated quantities available;</li> </ul>			
	<ul> <li>Material supply manners: preferring to</li> </ul>			
	purchase from existing material quarries.			
	Agreement with the local authorities			
	■ Check with environmental			
	permission/certification of the quarries to			
	ensure that environmental impacts and			
	mitigation measures have been			
	considered by owners.  • Environmental recovery plan			
	Material transportation manner plans			
	and schedules			
	<ul><li>Program for delivery of quarry and</li></ul>			
	borrow material			
	Re-use of waste materials & spoil	Design		Included in
	disposal locations included in bid and	Consultant,		the contract
	<ul><li>contract documents.</li><li>Select an properly treatment manners,</li></ul>	PPMU		
	preferred of for fill up the site of other			
	projects activities/purposes			
	Determine waste materials & spoil			
Plan Spoil and Waste Disposal	disposal locations. The expectation is			
	that construction waste will be stored			
Wadto Biopocai	temporarily along the proposed road,			
	domestic waste will be stored in rubbish bins and then will be collected and			
	treated by the local authority at Quang			
	Dien landfill and contractors will be			
	responsible for paying the bill			
	Agreement with the local authorities			
	need to be obtain during detail design or			
	before starting construction activities;			

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
	<ul> <li>Environmental I recovery plan since construction activities completed</li> <li>Waste materials transportation manner plans and schedules</li> <li>Establishment of complaints management system for duration of the works</li> </ul>			
Effects on households from loss of residential or agricultural land	Implementing mitigation measures as in the outline of the project resettlement plan	PPMU		Included in resettlement plan
Construction Stag	ge			
Dust, noise, vegetation clearing, water pollution and other impacts during the exploitation of construction materials	<ul> <li>to avoid dust.</li> <li>Watering the road surface based on a daily watering in the residential areas.</li> <li>Clean wheels of vehicle before leaving construction site, dispose location and material quarries.</li> <li>Contractors will be responsible to ensure that construction equipment and machines are in good condition and be maintained regularly.</li> </ul>	Contractor		Included in the contract
Erosion or sedimentation caused during clearing or earthworks	<ul> <li>Install sediment fences and/or sediment traps at drainage ditches at the construction sites near Pho Lai river;</li> <li>Gather material, soil far from overflows which cause sedimentation.</li> <li>If any excavated soil, waste or sedimentation damage cultivation area, contractors have to provide compensation for farmers.</li> </ul>		Sediment fences, traps and drainage ditches.	Included in the contract

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
	<ul> <li>duration of works within this area; Avoid implementing clearance or earthworks in the rainy season;</li> <li>Restoration of areas cleared for the construction sites;</li> <li>Dredge sediment if necessary.</li> <li>Re-vegetation after construction activity finishes.</li> </ul>			
bank, risk of river sedimentation by solid waste that is not collected during	<ul> <li>by collecting temporary works, solid waste in the river flow and stabilize river banks</li> <li>Excavation activities must be scheduled to avoid the flooding season.</li> <li>Prevent erosion and protect the cut slope with temporary or permanent drainage as soon as practicable after cutting.</li> <li>If new erosion occurs accidentally, back fill immediately to restore original contours.</li> <li>Control water loading and flows velocity at location of steep open land by the way of barring water flow, flow collection before reaching construction sites.</li> <li>Restrict clearing vegetation cover, replanting for fast recovering vegetation cover at that sections.</li> <li>Enhance banks of Pho Lai river at the bride by riprap</li> </ul>		Temporar y storage yards; Nets underneat h to collect solid waste	
Soil is contaminated by spillage of oil or other chemical substances	<ul> <li>Store chemicals in secure area, with concrete floor and weatherproof roof away from watercourses and floodplains (such as near Pho Lai river or flood areas near the proposed road).</li> <li>Ensure construction equipment and vehicles are maintained in good condition. Any leaks must be quickly repaired to avoid soil contamination.</li> <li>Segregate hazardous wastes (oily wastes, fuel drums) and ensure that</li> </ul>		Chemical tanks, concrete floor and weatherpr oof roof	Included in the contract

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
	storage, transport and disposal shall not cause pollution.  Ensure all storage containers are in good condition with proper labeling.  Collected, transported and treated by contract with company which has a work permit for treating hazardous waste disposal according to Circular 12/2011/TT-BTNMT on 14 April, 2011 of MONRE.  Store chemicals in secure area, with concrete floor and weatherproof roof and			
Pollution of surface water or groundwater from waste, chemicals, effluent or disturbance of contaminated soils	<ul> <li>Install sanitary toilets with septic tanks following sanitation regulation and washing facilities at construction camps.</li> <li>Collect debris, sludge at the construction site.</li> <li>Avoid directing discharges from concrete mixing equipment to waterways</li> <li>For Bridge Construction</li> <li>Bentonite from bridge substructure construction activities shall be prohibited from disposal to surrounding environment and shall be collected into a temporary site to dry, then treated as normal solid waste.</li> <li>Superstructure construction should be used nets underneath to collect falling solid waste. The waste is stored in dust bin and be treated as solid waste</li> </ul>		Tanks for storing chemicals , sanitary toilets, rubbish bins and container s	Included in the contract
Air pollution caused by dust or exhaust emissions (CO, NOx, SOx, etc) and noise generated from construction equipments	materials, implement strictly dust suppression measures such as watering of exposed surfaces and covering the trucks with canvas,;  • Ensure that all construction vehicles and		Canvas, washing facilities	Included in the contract

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
	least 50 meters from any residence. Cover sand loads with nets or sheets if materials are stored within 50 m from houses  All noise generation activities shall be undertaken using minimum impact intensity and only during the hours of 07:00 to 17:00, and shall be located at least 300 metres from any residence; Provision noise protection equipment for worker; Inform local communities near construction area about schedule and duration of construction works. Collect feedbacks from the community through, head of villages and CPC.	District Support Team, Contractor, CPC, DPC		
Cause changes in road safety/traffic activities, trading activities and access to property	K1+673, K3+133 and K5+043 and 32 residential roads and Pho Lai temple.	Contractor, District Support Team.	Signal lamps, Road signs	Included in the contract
Cause problems related to disposal of solid waste generated during construction activities or from construction camps	and request workers to collect waste and not to leave litter into any water resources;  Provide containers to collect construction waste and hazardous waste such as used oil at construction sites.	Contractor	Rubbish bins and container s	Included in the contract

Potential Impact	Mitigation Measure	Responsibility	Treatment	Cost
	<ul> <li>Consulting the sub-project engineering staff to minimize physical impacts on public infrastructure and disruption to</li> </ul>		facilities	No marginal cost
.,,	services;  Avoid impacts on low-voltage lines in villages during transport of materials and construction machinery by using	Contractor		No marginal cost
Affect rural infrastructure system such as	vehicles and machines with the heights below electric wires;  Minimize using heavy trucks for			No marginal cost
communication system, electricity and water-supply,	transporting materials in rainy season to avoid accidents from crashing into houses or works at road edge due to	Contractor		Included in
etc.	<ul><li>slippery road;</li><li>Comply traffic regulations (limit the velocity of trucks);</li></ul>	Contractor		the contract Included in
	<ul> <li>Install warning signs and avoid crashes to electric poles and houses.</li> <li>Relocate 05 power posts of Thanh Can hamlet.</li> </ul>	Contractor		resettlement part
Impacts on irrigation activities	<ul> <li>Lining the canals and building pumping stations should be implemented in dry season with application of construction and irrigation at same time.</li> <li>The Contractor should coordinate with irrigation authority, commune's irrigation staff and cultivation households in water supply area of the subproject to reach agreement on water supply duration (construction suspension), construction time (should be implemented at the time when irrigation activities are not done);</li> <li>Commune's irrigation staff, irrigation exploitation enterprise or relevant authorities should early inform households and contractor on water supply schedule so that they can make plan on their own initiative;</li> <li>PPMU and the Contractor should implement compensation for arising impacts due to stop of water supply at cultivation area, etc</li> <li>Proposed construction time: construction time should be implemented at the time when</li> </ul>	PPMU/ Contractor; Operation Unit, commune authorities and local residents in the subproject area		Included in the contact with the contractor
Construction workers cause	<ul> <li>irrigation activities are not done.</li> <li>Consult with local Commune PC in the subproject area to arrange</li> </ul>	Contractor / Subproject	Temporar	Included in the contract
workers cause	subproject area to arrange	Supproject	У	uie contract

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
social disruption or sanitation/health problems	accommodation for workers (to avoid any negative impacts on local people's activities) and register temporary residence card for them;  Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions;  Raise workers' awareness of environmental sanitation, infectious diseases as well as prevention of HIV/AIDS;  Install temporary drainage system and sanitary toilets at workers' camping sites.	Board	drainage system	
Changes in incidence of waterborne or respiratory diseases	<ul> <li>Implement dust mitigation measures as above mentioned;</li> <li>Implement discharging and filling stagnancy areas just after they are detected;</li> </ul>	Contractor		No marginal cost
Risks to health and safety of local people and construction workers	<ul> <li>Minimize impacts of dust, polluted air as mentioned above;</li> <li>Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions;</li> <li>Provide workers with safety equipment.</li> </ul>	Contractor	Safety equipmen t	Included in the contract
Environmental recovery	<ul> <li>Before construction is completed, the contractor will move all construction wastes and unused materials from the sites to approved sites</li> <li>Monitoring environmental recovery at working sites, worker's camps, construction waste disposal location, material stores.</li> <li>Monitor survival of trees / shrubs and grass in bioengineered slopes (e.g. at landslides, also transplanted / compensatory planting trees) and replant, as necessary.</li> </ul>	Contractor		Included in the contract
Operation Stage	,			
Changes in road safety	<ul> <li>Install signs to limit the loading capacity and velocity of motorbikes, cars and trucks, ensuring traffic safety at residential areas and intersections</li> <li>Implement communication to heighten the awareness of residents on traffic safety;</li> </ul>	Hue Road Maintenance One Member Limited		Provincial budget
Noise and vibration caused by the increase of	<ul> <li>Install warning sign to prohibit any loading capacity exceeding compared with design;</li> </ul>			Provincial budget

Potential Impact	Mitigation Measure	Responsibility	Treatment facilities	Cost
traffic volumes	<ul> <li>Limit the operation of means of transport from 8 pm to 6 am;</li> <li>Install warning signs to prohibit the using of horns in residential areas in the subproject area.</li> </ul>	One Member Limited Company		
Changes in the habit of using adjacent land to the road	The use of land adjacent to the road will follow the Commune's Master Plan of land use which has been approved.	Thua Thien Hue Road Maintenance One Member Limited Company and Quang Dien DPC, CPCs.		No marginal cost
Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water	<ul> <li>Coordinate with agriculture authority to ensure that farmers are trained on irrigation method;</li> <li>Cover, bottles from pesticide, insecticide as well as other substance such as herbicide should be stored in safety tanks at cultivation area before transport to dumping area;</li> <li>Ensure weed and other floating waste are periodically cleaned along the canals;</li> <li>Coordinate with Agriculture Extension Center to ensure that farmers are trained on Insect Prevention Method (IPM).</li> </ul>	Operation Unit/ DARD		Provincial budget and other assistance funds

# 4.2 Environmental Monitoring Plan

# 4.2.1 Environmental effects monitoring

6. Environmental effects monitoring is carried out to examine impacts of project in relation to ambient environmental conditions.

Table 5. Environmental effects monitoring plan

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibi lity	Cost
Construction	Stage					
Minimization of noise generation	Noise level	Residential areas along the roadsides in Nam Duong, Co Thap, Thanh Can and Pho Lai	use of noise meter to measure dB(A) if high	feedback from local	Contractor	Included in the contract

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibi lity	Cost
		hamlets (see the figure 1)	observed Visual Observation	Every week during the construction stage or when receiving feedbacks from the community about high noise level	Constructio n Supervision Consultant (CSC)	Included in separated contract with PPMU
Minimization		Residential areas along the roadsides in Nam Duong,	Visual	Weekly or receiving feedback from local communities	Contractor	Included in the contract
of dust generation	Dust level	Co Thap, Thanh Can and Pho Lai hamlets (see the figure 1)	Observation; Sampling and analysis	Every week during construction period or when necessary	Constructio n Supervision Consultant (CSC)	Included in separated contract with PPMU
		Location of the proposed bridge at Pho Lai river, Nam Duong hamlet,		Weekly or receiving feedback from local communities	Contractor	Included in the contract
Control of water quality	or other visible pollutants	ponds, canals in Nam Duong, Thanh Can, Co Thap and Pho Lai hamlets; Workers' camp sites at location of the proposed bridge at Pho Lai river and along the proposed road	Visual Observation; Sampling and analysis	Every week during construction period or when necessary	Constructio n Supervision Consultant (CSC)	Included in separated contract with PPMU
Operation Sta	age					
Surface water quality	BOD, COD, pH, TSS, coliform, oil	Location of the proposed bridge at Pho Lai river (see the figure 1)	Visual Observation, Sampling and analysis	2 times per year for first 2 years (1 time in wet season, 1 time in dry season)	Thua Thien Hue Road Maintenanc e One Member Limited Company	6,500,000
Air quality	TPM or PM <sub>10</sub> ; NOx;	Residential areas along the roadsides	Visual Observation, Sampling and	1 time per year for first 2 years	Thua Thien Hue Road Maintenanc	22,000,000

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibi lity	Cost
	SOx; CO, noise level	in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets (see the figure 1)	analysis		e One Member Limited Company	
Road safety	Number of road accidents and causes and severity of accidents	Along the route	Discussions with local authorities	1 time per year for first 2 years		5,000,000

# 4.2.2 Environmental Compliance Monitoring

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

**Table 6. Environmental Compliance Monitoring** 

Table 6. Environmental Compliance Monitoring						
Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Environment ally responsible procurement and SEMP preparation	Inclusion in bid docs	All road alignment and bridge	Checking documents	Bid preparation, before start of civil works	PPMU	Project preparation
Plan construction materials management	Meting minutes and agreement with local authorities	All road alignment and bridge	Checking documents	Prior to start of site works and throughout construction phase	PPMU	Project preparation
Plan Spoil and Waste Disposal	Meting minutes and agreement with local authorities	All road alignment and bridge	Checking documents	Prior to start of site works and throughout construction phase	PPMU	Project preparation
Effects on households from loss of residential or agricultural land	Compensatio n implement	All road alignment and bridge	Checking documents, interview, observation	Every six months	PPMU, Resettlement Consultant	Project preparation
Construction	Stage					
Erosion and sediment controls	Condition and capacity of controls	Throughout construction site	Observation	After heavy rain	Construction Supervision Consultant	Included in the contract signed with the Construction Supervision Consultant
	Condition of	<b>T</b> I		Weekly	Construction Supervision Consultant	Included in the contract signed with
Materials storage	materials storage areas	Throughout construction site	Observation	Every six months	Environmental Specialist of LIC Team	the Construction Supervision Consultant and the Loan Implementati

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost	
						on Consultant Team (LIC)	
				Weekly	Construction Supervision Consultant	Included in	
Construction equipment and vehicles	Noise and exhaust generation; covering of trucks; oil/fuel leaks			Environmental Specialist of LIC Team	the contract signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)		
			V	Weekly	Construction Supervision Consultant	Included in	
Construction camp conditions	Cleanliness; waste disposal facilities; general condition  All construction camps  Observation	Observation	Every six months	Environmental Specialist of LIC Team	the contract signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)		
	Check implementati on of all				Weekly	Construction Supervision Consultant	Included in
Risks to health and safety of local people and construction workers	items Check compliance to Labour Code of Vietnam, Decree 06/1995/ND- CP 20th January 1995, Decree 110/2002/ ND-CP 27th	Throughout construction site	Checking document, observation and community consultation	Every six months	Environmental Specialist of LIC Team	the contract signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)	

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	December 2002 and Circular 19/2011/TT- BYT 6th June 2011					
	Environment			Weekly	Construction Supervision Consultant	Included in
Waste disposal	al sanitation at construction site and temporary waste storage area	Throughout construction site	Observation and community consultation	Every six months	Environmental Specialist of LIC Team	the contract signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)
Cause				Weekly	Construction Supervision Consultant	Included in
changes in road safety/traffic activities, trading activities and access to property	Check implementati on of all items	Throughout construction site	Observation and community consultation	Every six months	Environmental Specialist of LIC Team	the contract signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)
			Checking	Weekly	Construction Supervision Consultant	Included in the contract signed with
Impacts on irrigation activities	Check implementati on of all items	Throughout construction site	documents, observation and community consultation	Every six months	Environmental Specialist of LIC Team	the Construction Supervision Consultant
Environmental recovery	Check implementati	Throughout construction	Checking documents,	Every six months and	Construction Supervision	Included in the contract

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	on of items	site	observation and community consultation	after completing each item	Consultant/ Environmental Specialist of LIC Team	signed with the Construction Supervision Consultant and the Loan Implementati on Consultant Team (LIC)
Operation Sta			Γ	<u></u>	Т	
Waste management	Site cleanliness and conditions of temporary waste storage areas; recent waste disposal method	Throughout sub-project area	Observation	6 monthly for first 5 years of operation	Thua Thien Hue Road Maintenance One Member Limited Company	Provincial budget
Drainage and flooding	Existing condition of the drainage system (broken ditches or leakage, etc.) and evidence of flooding of adjacent land use	Throughout sub-project area	Observation	Every six months for first 2 years of operation	Thua Thien Hue Road Maintenance One Member Limited Company	Provincial budget

# 4.3 EMP Implementation Arrangements

**Table 7. EMP Implementation** 

	Roles and Responsibilities					
Organization	Subproject Preparation	Subproject Implementation	Subproject Operation			
СРМИ	Advice to PPMU Safeguards Officer on IEE/CEP and IEE/EIAR preparation Review and provide "no- objection" on IEE/CEPs or IEE/EIARs submitted by	Suggest to PPMU Safeguards Officer on EMP implementation during construction Monitor progress during construction	Safeguards Officer on			

	Ro	les and Responsibilities	
Organization	Subproject Preparation	Subproject Implementation	Subproject Operation
	PPMUs	Consolidate environmental reporting from PPMU	first year of operation Consolidate PPMU environmental reporting
PPC	Sign-off on environmental assessment documents prior to submission for approval Approval of any subprojects requiring EIAR that are not subject to MONRE approval	Project owner with ultimate responsibility for environmental performance of subproject during construction	Project owner with responsibility for operation stage environmental performance including implementation of EMP during operation
DONRE	Provide advice and guidance on environmental issues as required during subproject preparation	Monitoring implementation of EMP through their own internal monitoring system	Monitoring implementation of EMP through their own internal monitoring system
PPMU	Engage consultant and have overall responsibility for IEE/CEP or IEE/EIAR preparation and submission for approval Ensure staff are adequately trained in environmental issues	Responsibility for EMP implementation during preconstruction and construction Ensure that contract specifications and bud 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
District PCs	Approval of subproject CEPs in accordance with GOV legislative requirements	Monitoring implementation of EMP through their own internal monitoring system	Monitoring implementation of EMP through their own internal monitoring system
District Subproject Support Teams (SST)	Assist in IEE/CEP preparation as required Assist PPMU to review bidding documents, contract documents, and tenders to ensure environmental issues are adequately addressed	Day to day supervision of contractors' in district including compliance with environmental management requirements Undertake environmental monitoring and coordination of local	Undertake environmental monitoring and coordination of local community environmental monitoring activities for first year of operation

	Ro	les and Responsibilities	
Organization	Subproject Preparation	Subproject Implementation	Subproject Operation
		community environmental monitoring activities	
Commune Supervision Boards (CSBs) and local community members <sup>10</sup>	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 under the direction of SSTs	Involvement in environmental monitoring activities under the direction of SSTs
Construction contractor	n/a	Prepare detailed Site EMP to meet the Subproject EMP general requirements Allocate adequate resources to meet the requirements and obligations of Site EMP	n/a
Thua Thien Hue Road Maintenance One Member Limited Company	N/a	N/a	Setting traffic signboards, monitoring execution on road safety on the route.
LIC Team on environmental safeguard policies	N/a	Implement spot check environmental monitoring at the subproject area once every 6 months. Monitoring results will be included in the report which will be sent to CPMU.	N/a
Construction Supervision Consultant	N/a	Implement construction supervision at construction sites every day. Implement environmental monitoring at the subproject area every week. Monitoring results will be included in the report which will be sent to PPMU.	N/a

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<sup>&</sup>lt;sup>10</sup> CSBs have been established under Decree 80 Regulation for Participatory Investment Supervision. Article 8 of Decree 80 provides the community with opportunities to inspect compliance, monitor implementation and evaluate the results of investments in the commune, including environmental impacts.

# 4.4 Monitoring and Reporting System

**Table 8. Monitoring and Reporting System** 

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom
Construction	Site Environmental Performance Report indicating compliance with Site EMP and monitoring results	Monthly	Construction Supervision Consultant	PPMU
	EMP Compliance Report indicating compliance with subproject EMP and monitoring results	Quarterly	PPMU	CPMU
	EMP Compliance Report indicating compliance with subproject EMP and monitoring results	Bi-annually or twice during construction depending on construction duration	СРМИ	ADB
	Subproject Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of subproject	СРМИ	ADB
Operation	EMP Compliance Report: Operation indicating compliance with subproject EMP commitments during operation	Every six months for first two years of operation. Ongoing frequency to be determined based on review after 2 years	Thua Thien Hue Road Maintenance One Member Limited Company	ADB and Town People's Committee

# 4.5 EMP Budget

**Table 9. EMP Budget** 

	Pre-construction	Construction	Operation	Sub-Total
Mitigation		Included in the contract with the construction contractor	Provincial budget	N/a
Monitoring		Included in the contract with and construction supervision consultant and LIC Team	33,500,000	33,500,000
Community consultation	15,000,000	15,000,000	15,000,000	45,000,000
TOTAL				78,500,000

# 5. PUBLIC CONSULTATION AND DISCLOSURE ACTIVITIES

# 5.1 Description of Activities to Date

# Table 10. Public consultation and public disclosure activities

CONSULTATION METHOD	DE.	TAILS OF ACTIVITIES
Correspondence and meetings	Date of correspondence	10 /03/ 2014
with local authorities (District and Commune PCs, Commune Fatherland Front, Women's	Dates of meetings (if requested)	19/03/2014
Union, Youth Union and others)	Minutes of meeting attached (Yes / No)	Yes
Public meetings	Date(s) held	19/03/2014
	Location(s) held	PC's meeting hall and cultural house of Quang Vinh commune
	Invitees	Commune PCs, stakeholders, village heads, Young Communist League, Fatherland front, Farmer Association, Women Union of the communes.
	Methods of invitation	Radio announcement and letter, coordinate with Women Union to mobilize women's participation in meetings
	Agenda attached (Yes / No)	Yes
	Minutes of meeting attached (Yes / No)	Yes
	Number of participants	Total have 71 people
		Man: 44 people
		Women: 27 people
		(the list of participants will be closed in the minutes of consultation)

# 5.2 Outcomes of Public Consultation to Date

# Table 11. Results of public consultation

Description of Issue Raised	By Whom?	Required Follow-up Actions?
Traffic disturb when transporting material and constructing the proposed road in Nam Duong, Co Thap, Thanh Can, Pho Lai hamlets		Do not transport materials at rush hours (6 am to 7 am; 11 am -12 pm; 5 pm- 6pm)
Traffic safety	Local people	The Contractors are supposed to slow down when transporting materials by the

Upgrading Pho Lai - Thanh Can - Nam Duong - Co Thap dike cum road subproject, Thua Thien Hue Provin Integrated Rural Development in Central Provinces Project

Description of Issue Raised	By Whom?	Required Follow-up Actions?
		residential area of Don Market. It is necessary to plant construction signposts and speed limit signs
Construction workers cause social disruption and sanitation problems	Local people	Register temporary residence card for workers;
		Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions;
		Hire local people to do simple work for the subproject in the construction phase.

# 5.3 Future Public Consultation Activities

# Table 12. Proposed community consultation activities

Activity	Participants	Expected Outcomes	Schedule	Cost Estimate
Community information by means of loudspeaker at each village related to subproject of Quang Vinh commune, on television/radio and local newspapers.	The community	Notification to the community about construction activities and schedule, environmental management measures, and how to use community complaints line	· ·	15,000,000
Grievance redress/ complaints mechanism	The community	Responses to concerns or questions about construction works	Throughout construction period	15,000,000
Other: document, communication, etc				15,000,000

# 6. CONCLUSION AND RECOMMENDATIONS

- 8. The subproject "Upgrading Nam Duong Co Thap Thanh Can Pho Lai dike cum road" will be implemented by Thua Thien Hue PPMU under IRDPCP in Quang Dien district, Thua Thien Hue province.
- 9. An environmental assessment of the project has been carried and the main negative potential environmental impacts of the sub-project during construction and operation stages include:
  - Air pollution from dust or exhaust emissions (CO, NOx, SOx, etc). Noise, vibration from construction equipments and vehicles on the road;
  - Dust and noise generated during the transport of material from material stores to the construction sites;
  - Changes in road safety/traveling, trading activities and access to infrastructure system (electricity, road), risks of health and safety of local people and construction workers;
  - Waste disposal problems from solid waste generated during construction activities or municipal waste generated in worker's camps
- 10. A range of mitigation and monitoring measures has been developed for the sub-project, which includes the following activities:

### Mitigation measures:

- Measures for mitigating air pollution: During the transport of construction materials, watering the road surface and covering means of transport with canvas. Besides, other measures may include installing wheel washing equipments at construction sites and regularly maintaining vehicles and machines.
- Install road signs, instruction signs, speed limitation signs, etc at residential areas in Nam Duong, Co Thap, Thanh Can and Pho Lai hamlets and crossing points with branches and sites.
- Provide rubbish bins to store domestic waste at the construction site; request workers not to leave litter; provide containers to store construction waste at construction sites; install sediment fences and/or sediment traps to collect sediment before it enters waterways;

### Monitoring activities:

In order to ensure the compliance of measures to mitigate negative environmental impacts caused by the subproject, these monitoring activities must be carried out:

- The contractors must implement measures to mitigate environmental impacts in residential areas along the road and the location of the proposed bridge in Pho Lai River, Nam Duong hamlet. Their implementation can be monitored by observing and measuring water quality, air quality and frequency of implementing these measures. Moreover, the contractor must arrange adequate resources to meet general requirements and compulsory regulations on EMP at the construction sites.
- During operation stage, O&M agency (Thua Thien Hue Road Maintenance One Member Limited Company) have to periodically manage water quality, air quality and noise according to recent Vietnamese Standards and National Technical Regulations
- PPMU should intensify the contractor's compliance with environmental regulations on material storage, construction equipment, waste disposal, air quality, dust, noise and vibration to ensure safety for the community during construction stage and operation stage; coordinate with local authorities to formulate and implement EMP.

#### **Conclusion:**

- 11. The upgrading of Pho Lai Thanh Can Nam Duong Co Thap dike cum road will improve livelihoods and reduce poverty for local people in the subproject area. It is expected to directly benefit 9422 people in Quang Vinh commune. Thus, the subproject will contribute to promote socio-economic development and modernize rural area; provide better access to market centers and social services; reduce time and cost for transporting agricultural products.
- 12. Negative environment impacts caused by the subproject mainly generate during the construction stage. However, these impacts are temporary and they will end when the road is put into operation. Upon completion, the upgraded road will help decrease dust volume generated by means of transport. On the other hand, it will bring positive impacts to the environment and promote economic development for the subproject area. Thus, based on the Initial Environmental Examination, the consultants and Thua Thien Hue PPMU would like to recommend as follows:
  - (i) There will not be any significant impacts to the environment and no further environment assessment is necessary.
  - (ii) The IEE of the subproject "Upgrading Pho Lai Thanh Can Nam Duong Co Thap dike road" should be approved by authorities so that the next steps can be implemented to ensure good progress and project benefits.

# 7. ANNEXES

- Photos of implementation of public consultation
- Photos of locations of air and water quality monitoring
- Public consultation and meeting minutes
- Data source

### Annex 1: Photos of implementation of public consultation



commune



Photo 1: Public consultation in Quang Vinh Photo 2: Public consultation in Quang Vinh commune



Photo 3: Public consultation in Quang Vinh Photo 4: Public consultation in Quang Vinh commune



commune

### Annex 2: Photos of locations of air and water quality monitoring



Photo 5: Air quality observation location - at Photo 6: Air quality observation location - at residential area near the proposed road in Thanh Can hamlet - Quang Vinh commune



Pho Lai temple in Pho Lai hamlet - Quang Vinh commune



residential area near the proposed road in Nam residential area near the proposed road in Co **Duong hamlet - Quang Vinh commune** 



Photo 7: Air quality observation location - at Photo 8: Air quality observation location - at Thap hamlet - Quang Vinh commune



Duong bridge, Nam Duong hamlet, Quang Vinh the proposed bridge of Nam Duong commune



Photo 9: Air quality observation location at Nam Photo 10: Water quality observation location at

# Annex 3: Public consultation and meeting minutes

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Quang Vinh commune

CONG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM  ĐộC IẬP - Tự do - Hạnh phúc  (Loan 2357-VIE)  BIÊN BẦN LẬM VIỆC  Hồm nay, ngày 19 tháng 3 năm 2014, tại Xã Quống, Vĩnh, chúng tôi gồm:  I. Đại diện nhóm tư vấn của dự án Phát triển nông thôn tổng hợp miền Trung:  Ong/Bà V. v. Howney Lan Chức vụ Tử VIỆ THOC.  II. Đại diện Bản QLDA tỉnh Chức vụ TV. VỀ (Trờ)  Ong/Bà Đượn Vàn Đình Chức vụ TV. VỀ TĐC.  II. Đại diện địa phương  Ong/Bà Diệp Nưnh Phong, Chức vụ Cán bà Kỳ Thuật  Ong/Bà Diệp Nưnh Phong, Chức vụ Cán bà CS AT  Ong/Bà Hồ Tình Ann Chức vụ Chủ từ Hỏ Hồy Dự vư  Nội dung làm việc:  Nhà là Việu làm làm qua thuộn làu hàng tàm lực các  Tươn các tháng từnh thuậc hướn Đượng từnh thuậc hướn  Nội dung làm việc:  Nhà thuết làm		
Dộc lập - Tự do - Hạnh phúc  (Loạn 2357-VIE)  BIÊN BẢN LÀM VIỆC  Hồm nay, ngày 19 tháng 3 năm 2014, tại xã. (Lương, Vinh chúng tôi gồm:  I. Đại diện nhóm tư vấn của dư án Phát triển nông thôn tổng hợp miền Trung:  Ong/Bà V. v. Howncy, Lân Chức vụ Tư. Với Chích  Ong/Bà Howng, Hưng Honh, Chức vụ TV. Về TR.C.  II. Đại diện Bạn QLDA tỉnh  Ong/Bà Tần Thái Khanh, Chức vụ Cạn bh Ky Thuất  Ong/Bà Diệp Minh Phong, Chức vụ Cạn bh Ky Thuất  Ong/Bà Diệp Minh Phong, Chức vụ Cạn bh Ky Thuất  Ong/Bà Họ Tinh Ano Chức vụ Chủ tí ch UBNO Xã  Ong/Bà Họ Thinh Ano Chức vụ Chủ tí ch Họ phụ vuế  Nội dụng làm việc:  Nội dung làm việc:  Nội dung làm việc:  Nội dung làm việc:  Thanh Can Namy Vư hơng thàng từ hơng từ ngam tư phố Lau thanh Can Namy vào Tháng thể họi Lư các tạ day mọi trường phố hợi Tháng từ hóng từ hong từ hon		BAN GLDA
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Hôm nay, ngày 19 tháng 3 năm 2014, tại xã Quống, Vinh chúng tôi gồm:  1. Đại diện nhóm tư vấn của dư án Phát triển nông thôn tổng hợp miền Trung:  Ong/Bà Vu Hoang Lan Chức vụ Tư Vũ Chiời  Ong/Bà Đượn Voạo Định Chức vụ TV Về Chiời  Ong/Bà Đượn Voạo Định Chức vụ TV Về Chiời  II. Đại diện Ban QLDA tính  Ong/Bà Tổn Thát Khanh Chức vụ Can bố Kỳ Thuất  Ong/Bà Diệp Minh Phong, Chức vụ Can bố CS AT  Ong/Bà Diệp Minh Phong, Chức vụ Can bố CS AT  Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã  Ong/Bà Hồ Tỉnh Ano Chức vụ Chủ tích Hồ phụ vực  Nội dung làm việc:  12 phổ bim Tháng tin Về trúi duế an năng  cấp đường giao thông Vữ bạt trập đã ngạm Vũ phổ Lai  Thanh Can phom Dương, Cá Tháp  22 Tử Vinh Nưi trường phổ bịm thông tim Về các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng môi trường Khi Thuếc hiện Dư am Các  Tác đồng tích củe Và từcu cức trong và Sau Khi Thuếc	DIF ÁN DUÁT TRIỆN NÂMO	
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Ong/Bà Down Voin Dinh Chức vụ TV Về TĐC  II. Đại diện Ban QLDA tinh  Ong/Bà Tổn Thát Khanh Chức vụ Cán bố Ky Thuất  Ong/Bà Diệp Minh Phong Chức vụ Cán bố CS AT  Ong/Bà Diệp Minh Phong Chức vụ Cán bố CS AT  Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã  Ong/Bà Hà Tình An Chức vụ Phố CT UBNO Xã  Ong/Bà Hà Tình An Chức vụ Chủ tích Hộ phụ việ  Nội dụng làm việc:  1) phổ biển Tháng tim Vĩ tiểu due an năng  cấp đường giao thông từ hợp đã ngam lư phố Lui  Thanh Cán Norm Diểng Cổ Tháp  2) Từ Vin Nư trường phổ biển thống từn Vĩ các  Tác đồng môi trường Khi Huếc hiển Dự âm Các  Tác đồng tích cức Và từu Cức Tổng Và Sau Khi Thực  hiệc Đườn Dư ảm	- Ong/Ba. V. W. Howney Lan.	
II. Đại diện Bản QLDA tính  Ong/Bà Tớn Thai Khanh, Chức vụ Can bố Ky Thuất  Ong/Bà Diệp Minh Phong, Chức vụ Can bố CS AT  Ong/Bà Diệp Minh Phong, Chức vụ Cán bố CS AT  Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã  Ong/Bà Hồ Tình Ano Chức vụ Phố CT UBNO Xã  Ong/Bà Hồ Thủ Lý Chức vụ Chủ tích Hồ phụ việ  Nỗi dụng làm việc:  1) Phổ biến Thong từn Vĩ tiểu chủ an năng  cấp đường giao Thong Kir hợp để ngắn lư phố Lai  Thanh Cán Nom Dương Cổ Tháp  2) Từ Vấn Nười trưởng phổ biến Thông từn Về các  Tác đồng mãi trưởng Khi Thuếc hiện Đự am Các  Tác đồng tích cức Và tiểu cức trong và Sau Khi Thuếc  huếo Đưởn Đượng	- Ong/Ba Howny Hong Hanh.,	
- Ong/Bà Ton Thair Khanh, chức vụ Cam bố Ky thuật  - Ông/Bà Diệp Minh Phong. Chức vụ Cam bố CS AT  - Ông/Bà Diệp Minh Phong. Chức vụ Chủ tích UBNO Xã  - Ông/Bà Nguyễn Hưng. Chức vụ Chủ tích UBNO Xã  - Ông/Bà Hỗ Tinh Âm. Chức vụ Phố CT UBNO Xã  - Ông/Bà Hồ Thủ Lý. Chức vụ Chủ tích Hồ phụ vư  Nỗi dụng làm việc:  12 phổ biển Thance tim Vế tiểu du am năng.  - Cap chiếng giao thông Kir hợp tế ngam lụ phổ Lai  - Thanh Cán Nom Diedna, Cổ Tháp  - 27 Tử Vốn nưới trưểng phổ biển Thông tim Vế các  - Tác đồng mỗi trưểng khi Thuếc hiện Đư am Các  - Tác đồng tích củc Và tiểu cức trong và Sau Khi Thuếc  - hiệo Đư am	- Ong/Ba Down Town Dinh	Chức vụT.V. LE TĐ C
- Ong/Bà Diép Minh Phong, Chức vụ Cán bố CS AT  - Ông/Bà Chức vụ Chủ tích UBNO Xá  - Ông/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xá  - Ông/Bà Hỗ Tỉnh An Chức vụ Phố CT UBNO Xá  - Ông/Bà Hỗ Thủ Lý Chức vụ Chủ tích Hỗ phụ vuế  Nỗi dụng làm việc:  1) Phổ biển Thong tim Vĩ tiểu du an năng  cấp đường giao Thong Kữ hợp đã ngắn lụ phổ Lui  Thanh Cấn Năm Dương Cổ Tháp  2) Từ Vin Nư trưởng phổ biển thống tim Vế các  Tác đồng mỗi trưởng khi Thuếc hiện Đự am Các  Tác đồng tích cức Và tiểu Cức Trong Và Sau Khi Thuếc  hiện Đư am	II. Đại diện Ban QLDA tỉnh	The state of the s
Ong/Bà Chức vụ Chủ tích UBNO Xã  Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã  Ong/Bà Hỗ Tỉnh Âm Chức vụ Phố CT UBNO Xã  Ong/Bà Hồ Thủ Lý Chức vụ Chủ tích Hồ phụ vư  Nội dung làm việc:  12 phổ biển Thánce tim Vẽ tiểu chủ am năng cấp chiếng giao Thông Vữ hợp đã ngam lụ phổ Lai  Thanh Cám Norm Dredng Cổ Tháp  2) Từ Vin Nư trường phổ biển Thông tim Về các  Tác đồng mài trường Khi Thuếc hiển Dư cán Các  Tác đồng tích cức Và từu cức trong và Sau Khi Thuếc  hiện Đư am	- Ong/Ba Ton Thair Khanh	Chức vụ Can bố ky thuất
Ong/Bà Chức vụ Chủ tích UBNO Xã  Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã  Ong/Bà Hỗ Tỉnh Âm Chức vụ Phố CT UBNO Xã  Ong/Bà Hồ Thủ Lý Chức vụ Chủ tích Hồ phụ vư  Nội dung làm việc:  12 phổ biển Thánce tim Vẽ tiểu chủ am năng cấp chiếng giao Thông Vữ hợp đã ngam lụ phổ Lai  Thanh Cám Norm Dredng Cổ Tháp  2) Từ Vin Nư trường phổ biển Thông tim Về các  Tác đồng mài trường Khi Thuếc hiển Dư cán Các  Tác đồng tích cức Và từu cức trong và Sau Khi Thuếc  hiện Đư am	- Ong/Bà Diép Minh Phony,	Chức vụ Can bố CS AT
Ong/Bà Nguyễn Hưng Chức vụ Chủ tích UBNO Xã Ong/Bà Hỗ Tỉnh An Chức vụ phố Ct UBNO Xã Ong/Bà Hỗ Thị Lý Chức vụ Chủ trịch Hỗ phụ việ Nội dung làm việc:  12 phổ biển Thong tin Vĩ tiểu chủ an năng cấp chiếng giao thông kữ hợp để ngắn lư phố Lai Thanh Cán Nom Dương Cổ Tháp  2) Từ Vin nưới trường phổ biển thông tim lư các tác dàng mại trường Khi Thuk hiện Đư am Cac Tạc đồng tích cức Và tiểu Cức trọng và Sau Khi Thuk	a d	
Ong/Bà Hồ Tinh An Chức vụ phố CT UBN ĐX à  Ong/Bà Hồ Thị Lý Chức vụ Chủ trịch Hồ phụ việ  Nội dung làm việc:  12 phổ biển Thong tin Vĩ tiểu chủ an năng cấp chiếng giao thông kữ hợp để ngắn lư phổ Lai  Thanh Cán Nom Diedng Cổ Tháp  27 Từ Vin run trường phổ biển thông tim lư các  Tác đồng mọi trường Khi Thuk hiện Đư am Cac  Tác đồng tích cức Và tiểu cức trong và Sau Khi Thuk  hiện Đư am	III. Đại diện địa phương	
Ong/Bà Hồ thị Lý Chức vụ Chủ trích Hồ phụ việ  Nội dung làm việc:  1) phổ biển Thong tin Về tiểu chủ an năng cấp chiếng giao thông kữ hợp để ngắn lư phổ Lai Thanh Cán Nom Diedng Cổ Tháp  2) Từ Vin Nười trường phổ biển thông tim kế các Tác đồng môi trường Khi Thuế hiện Đư am Các Tác đồng tích cức Và tiểu Cức trong và Sau Khi Thuếc hiện Đư am	- Ong/Ba Nguyên Hunq	Chức vụ Chá tích UBNO Xã.
Ong/Bà Hồ thị Lý Chức vụ Chủ trích Hồ phụ việ  Nội dung làm việc:  1) phổ biển Thong tin Về tiểu chủ an năng cấp chiếng giao thông kữ hợp để ngắn lư phổ Lai Thanh Cán Nom Diedng Cổ Tháp  2) Từ Vin Nười trường phổ biển thông tim kế các Tác đồng môi trường Khi Thuế hiện Đư am Các Tác đồng tích cức Và tiểu Cức trong và Sau Khi Thuếc hiện Đư am	- Ong/Ba He tinh Am	Chức vụ phố Ct YBN DXa
1) phổ biểm thống tin Về tiểu du an năng cấp thếng piao thống kết hợp để ngắn lư phố Lai thành Cán Nom Diedng, Cổ Thấp.  2) Từ Vốn rưới trường phổ biển thống tim Về các tac đồng mọi trường, Khi-thiếc hiến Diệ am: Cac tạc đồng tích cức Và tiểu cức trong và Sau Khi thiệc hiến Diệ am	- Ong/Ba Ho thi Ly	
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hills Did an	thanh Can Nom Di	eding, Co' Thatp.
hills Did an	2) Tik von nun to	long pho bin thong tim ue cac
hills Did an	tax dong moi truld	ma, Khi-hule him Du am Cac
hills "Did an	19Calongucnoucug	tien cue trong và Sau Khi Thule
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Sau khi đọc lại biên bản, những người có gì khác.	mặt đồng ý về nội dung biên bản, không có ý kiến
Đại diện Ban QLDA tỉnh	Đại diện UBND xã
Diep Minh Phong	The water of the second of the
	Đại diện tư vấn
	Die ing Die Chian

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM Độc lập – Tự do – Hạnh phúc BAN QLDA

BAN QLDA

PHÁT TREM NÔM THẨM B

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THAM THE NOS.

Queriq ... Vint., ngày 19 ... tháng ... 3 ... năm 2014 Dự ÁN PHÁT TRIỂN NÔNG THÔN TÔNG HƠP

CÁC TÍNH MIÈN TRUNG - KHOẢN VAY BỐ SUNG

# BIÊN BẢN HỌP THAM VẤN CÔNG ĐỒNG

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

	12.
Tên tiểu dự án: Nang Cấp	Juling gias - hong Kit hot de nous Lu phis lai
Xã Curay Vinh huyện	Juliana gian-thong Kir Ards de ngour Lu phê Lai Ouancy Diêm tinh thanh con, num plang, co'thyp
I. Thành phần tham dự:	J TT- Hue.
- Ong/Ba Vu Houng Lain	Chức vụ Tử Vais nas trang
- Ong/Ba Dedry Dile Chien	Chức vụ Từ Vớn TĐC
- Ong/Ba H. cang Horig Hunh	Chức vụ Tư Vain Giời và Công đồng.
- Ong/Ba Nguym Huny	Chức vụ Chủ tron UBND Xa
- Ong/Bà. Hế Tỉnh Â.m.	Chức vụ pho Ct UBN D Xa
- Ong/Ba. Ho thi Ly	Chức vụ Chủ tích Hỗi phụ nư
- Ong/Ba. He The Hound Moon	Chức vụ. ĐIC Xo.
- Đại diện những hộ bị ảnh hưởng	người, trong đónữ, chiếm(%) , Dân tộc
thiểu sốngười, chiếm%	
II. Nội dung	

#### 2.1 Các nội dung phổ biến:

- Cung cấp các thông tin về dự án như địa điểm, quy mô, các thông số kỹ thuật cơ bản ....
- Chính sách an toàn của dự án bao gồm: Chính sách về giới và sự tham gia của cộng đồng; Kế hoạch hành động giới; Chính sách mỗi trường, Chính sách Tái đinh cư và kế hoạch phát triển người dân tộc thiểu số.

### 2.2 Tham vấn cộng đồng:

- Tham vấn các vấn đề giám sát và tham gia của cộng đồng trong các giai đoạn chuẩn bị, thực hiện, vận hành tiểu dự án, các vấn đề về giới và lồng ghép giới, nhóm dễ tổn thương, hộ bị ảnh hưởng nặng...

- Tham vấn	các v	ấn đề v	về môi	rườn	g, tác	động	môi	trường	tièm	năng	của	dự á	in bao	gồm
tác động lên	môi t	trường	tự nh	ên và	xã hộ	i của	khu	vực dị	r án	và nh	ũng	biện	pháp	giảm
thiểu các tác	động	tiêu cụ	rc;											

- Tham vấn các vấn đề về tái định cư, các tác động dự kiến, quyền lợi của người bị ảnh hưởng, các biện pháp giảm thiểu tối đa nhằm có ít tác động nhất đến người bị ảnh hưởng.
- Tham vấn nhu cầu đào tạo của các hộ bị ảnh hưởng.

III. Ý kiến thảo luận
111.1. Các vấn đề về giới, tham gia cộng đồng  17. Bour Chiatin Sat Công tong đã tulác thanh lập tuy which, Chú tích hos phụ nư Xã Không nàm trong Ban GS CD.  27. Bour let SCD ủng họ Dực am Sĩ Thúc hiện tại địa Phường Và Sẽ tham gia Trong quá trinh thực hiện, thi Công của Plâ am
3) Ho! Phu sur Se than goa vao ban GS CD va Se ung ho Die an thire hipo, clong that van dang thanh win trong Ho! Phu ma than goa van gur tumb thur him Die an
III. 2. Các vấn đề về môi trường
1) trong quá trinh thi công nów tranh việc thai  các chất thái na người nưới ra ctong rường.  27 New trong quá trinh thi công gày new khón,  bui và bing cời nôw có quống han chi nhường  taí động này tới cuốc công hong ngày của người  dân
3) Cai Cong theat new men dut thirt ke de'

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	in sens our distribut the cac his b
	và để nghi bứ cón nữn thực
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Phine V. Cho night dans	
1V. Két luận Cho người dân.	ûn trong that grinn sain xurît để griển Về thiệt hai tài sản.
And the second s	ony cam lot se why he bu
	ing cump what the doing thuis
	at wife their him Di an
Jan Mhot of olia	Vac plus Va grao thong
và mua mua Khong	Vão phục Vu grao thông bì ảnh hương
Na mua Mula Khong  Cuộc họp các bên thống nhất và kết thúc v	bi anh huldnig
và mua mula Không	bi anh huldnig
Cuộc họp các bên thống nhất và kết thúc v	vào lúc 166, ngày 1.5 tháng 3. năm 2014
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng	vào lúc 161, ngày 1,5 tháng. 3. năm 2014  Đại diện UBND xã  Đại diện tư vấn
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng Đại diện Ban QLDA tỉnh	vào lúc 161, ngày 1,5 tháng. 3. năm 2014  Đại diện UBND xã  Đại diện tư vấn
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng Đại diện Ban QLDA tỉnh	vào lúc 161, ngày 1,5 tháng. 3. năm 2014  Đại diện UBND xã  Đại diện tư vấn
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng Đại diện Ban QLDA tỉnh	vào lúc 161, ngày 1,5 tháng. 3. năm 2014  Đại diện UBND xã  Đại diện tư vấn
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng Đại diện Ban QLDA tỉnh	vào lúc 16k ngày 15tháng 3. năm 2014  Đại diện UBND xã
Cuộc họp các bên thống nhất và kết thúc v Đại diện cộng đồng Đại diện Ban QLDA tỉnh	vào lúc 161, ngày 1,5 tháng. 3. năm 2014  Đại diện UBND xã  Đại diện tư vấn

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM Độc lập - Tự do - Hạnh phúc



Quand Nim., ngày 19 tháng. 3 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TÔNG HỢP CÁC TỈNH MIÈN TRUNG -KHOÀN VAY BÔ SUNG

DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP (Tham vấn cộng đồng về chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số

Tên tiểu dự án Nang Cấp tường Gias Thong Kết họp để myan lư phế Xã Quang Vinh, huyên Quang Divis, tinh II. Huế com, Nam Dương

STT	Họ và tên	Glới tính	Địa chỉ	Ký tên	Ghi chú
1	Nguyễn Thị Ngân Tâm	Nic	pho Lai	Com	
2	Ho this To Loan	NX	'phô' Lai	Marz	
3	Nguyễn The Dans	Nã	Nam Duling	Dan	
4	Nguyễn thi Lieu	Nã	Co thap.	Sru	
5	Ho the Lieu	Nú	the Lai	Live	
1	Ho thi Truyen	Nie	phi Lai	Murg	
7	HE thi philong	Næ	phó Lai		
8	HE thi Min	Ne	phi Lai	Man	
9	Nguyễn Thị Nguyễn	NE NE	Now Dildny	reguyo	
10	Poran Chi Ngân	Ni	Charle Can	Alegan	
11	Bran Bhe Lang	Nú	Man Dring	Lang	
12	Bush Chi Ly	Nú	Nam Diling	4	
13	Eron Thi châm	Na	Nam Diling	Châm	
14	Não thủ Hong	Nú	Thanh Eam	Hong	
15	Tran Thi Lian	Nã	Thank Can	Lien	
16	Trilding The Hong Hoon	\b	Nam Dudny	hand	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi ch
1	Janyen Kien		Then Nam Dring	Stry	
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not.	en ven Marl		um oulg	114	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
/	Nguyễn Sỹ Phú		Nam Diling	Mary	
	Mayer Ving		Ting Dile	- Juc	-
	Laura how HF		Wam Didy	Atec	
	Man Giai		Wan aux.	See	
	rain Sej.		Wan Ush.	2	
	lguyên Doi		Phô Lai	Chyle	
	Tran + thoa		Thank can	stry	
	Ran Viet Hlory		Thanh can.		
	an phile bis		Co trap	lone	
	guyin Duyt		Nom Dicting	one_	
	Pran Mai		Thank Can	Ramon	/
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	Van Cross The		New During	200	-1
1	Ho Tinh An		Pho Lac -	- Talley	/
	Phan Khiet		Nam Diena	(lu	
	ran Dud		UBNT X50	Dar.	
	Nguyes Hung		UBIND XX	Wohund	
	0 0				

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chi
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### Annex 4: Environmental monitoring forms

# Environmental Compliance Monitoring Form for Construction Package

Part A: General Project Information

Subproject Name:				
SIR Code: Subproject Package #: Activity Sector:				
Province: Districts:				
Design and Supervision Consultant Firm:				
Construction Company Name: Contract Da	ate:			
Contract Amount: Contract Duration (days)				
Person Responsible: Phone				
PPMU EMO: Phone				
Part B: Monitoring checkli	<u>st</u>			
Performance Indicator 1. Design and Preparations				
The PPMU to complete 1-4 in conjunction with the subproject design Date of Monitoring:	consul	tant at	the time the proj	ect is tendered.
	Yes	No	Remarks	$\neg$
Have all UXO been cleared prior to commencement of	163	INO	<u>Itemarks</u>	
construction?  2. Does the subproject design meet applicable engineering safety				
and public health standards?  3. Have the resettlement provisions been disclosed to the affected				
communities and compensation made to affected persons or households?				
For the applicable subproject type:				
Roads, embankments, irrigation works and coastal protection: does the design provide cross drainage to				
b. Markets: does the design provide washing facilities and toilets in the market area?				
The construction Supervision consultant (CSC) to complete 5-10 with	the P	PMU a	nd construction of	ontractor at the
time of start-up. Date of Monitoring:				
5. Has the contractor prepared a Site EMP?				
6. Has the contractor posted a public notice regarding the nature,				
extent and cost of the project?  7. Are locations for mixing plants sufficiently distant from houses,				
schools and hospitals?				
8. Are agreements in place with owners for temporary use of land for worker camps and construction yards?				
Have spoil disposal sites been selected in consultation with local authorities?				
Are official permits on record for quarry sites and borrow pits?				
Score (1-10: 10 total)			(%)	

Performance Indicator 2. Worker Provisions

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The CSC to complete 11-16 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring:\_\_\_\_\_

	Yes	No	Remarks
Were local authorities consulted in the planning for the location of construction worker housing?			
12. Are supervisors or other site personnel trained in basic first aid emergency response measures?			
13. Are first aid kits readily available to workers at the job site along with instructions for use?			
14. Has the contractor or Inspector from the Department of Health undertaken an awareness program for communicable diseases/HIV-AIDS?			
15. Has the contractor provided safety equipment (hard hats, ear plugs, dust masks, safety boots and glasses) to workers and training in use?			
Are construction camps equipped with adequate water supply, sanitary toilets, washing facilities and facilities for waste collection and storage?			
Score (11-16; 6 total)			(%)

#### **Performance Indicator 3. Biodiversity**

The CSC should complete 17-21 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring:\_\_\_\_\_

	Yes	No	<u>Remarks</u>
17. Does the project avoid encroaching on natural forests or wetlands?			
Does the project avoid adverse effects on flow of natural streams and water quality?			
19. Are worker camps located outside of forested areas and has the contractor restricted access of workers to forests, fishing and hunting?			
20. Does the contractor obtain fill materials only from pre-existing quarries, or from borrow pits within the strict limits of the construction zone?			
21. For irrigation sector projects, are effects on agricultural biodiversity limited through use of integrated pest management?			
Score (17-21; 5 total)	)		(%)

### Performance Indicator 4. Community Based Monitoring

The CSC to complete 22 and 23 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring:\_\_\_\_\_

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
22. Has the contractor posted a public notice regarding complaints from the community?			
23. Has there been a public consultation regarding construction, environmental impact, and the community complaints system?			
Score (22-23; 2 total)			(%)

Outcome of Public Consultation:

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Date:	Location	):			
Topics	covered	in	presentation:	 	
				 _	
Common out of	om Attendees:				
Comments ii	om Attendees:				
					1

# Performance Indicator 5. Community Values and Safety

<u>Items 24 – 35 should be inspected quarterly.</u> Date of Monitoring:

			l	
		<u>Yes</u>	<u>No</u>	<u>Remarks</u>
24. Is temporary access provided to	adjacent properties as needed?			
25. Is permanent access to adjacen completion of a segment of work				
26. Are construction hours adjusted schools to minimize disturbance				
27. Does the contractor limit the sco minimize community impacts?	pe of construction in progress to			
28. Are physical impacts on public in disruption minimized?	nfrastructure and service			
29. Are materials transported on app	proved haul routes?			
30. Are construction equipments ma	intained in good condition?			
31. Do vehicles operate within legal	speed limits?			
32. Are material loads traveling on p	ublic routes covered?			
33. Is dust suppressed by watering	exposed surfaces?			
34. Has the contractor installed sign on public roads?	s and lighting in vicinity of works			
35. Is access to the construction site	e restricted to the public?			
	Score (24-35; 12 total)			(%)

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#### Performance Indicator 6. Hydrology/Water Pollution

<u>Items 36 – 43 should be inspected quarterly.</u> Date of Monitoring:

		Yes	No	Remarks
36.	Are construction camps maintained in a clean and hygienic condition?			
37.	Are oil, fuel and chemicals stored in enclosed areas (dyked or covered)?			
38.	Is discharge of wastewater into water bodies used for water supply avoided?			
39.	Is clearing activity suspended during rains?			
40.	Does the contractor prevent discharge of concrete trucks to waterways?			
41.	Have existing drainage patterns been maintained during construction?			
42.	Are areas of standing water in the construction area drained and backfilled?			
43.	Are sediment controls installed upslope of waterways?			
	Score (36-43; 8 total)			(%)

#### Performance Indicator 7. Project Completion

Items	44	_	50	should	be	inspected	prior	to	finalizing	the	construction	works.
Date of	Monito	oring:_				-	-		_			
										1		

		Yes	<u>No</u>	<u>Remarks</u>
44.	Have drainage fixtures, curbs, road shoulders and ditch slopes been finished out to prevent hazard to the public during use?			
45.	Are ground surfaces in the project area graded to prevent water from collecting?			
46.	Have all construction debris, tree cuttings, excess dirt, rubble and scrap been removed from the construction zone?			
47.	Have all pits been filled in and graded to drain, underground tanks (including septic tanks) removed and holes backfilled?			
48.	Are all waste products removed from the construction site, equipment yards and worker camps, including oil waste, scrap materials and equipment, building materials and domestic waste?			
49.	Have all points of access (drives, walks) and utilities (water supply, power, communications) to public and private property been restored to original condition?			
50.	Have all complaints by the local community and individuals been resolved by the Contractor?			
	Score (44-50; 7 total)			(%)

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#### Performance Tracking

Performance Tracking consists of three sections:

- a. Performance Follow-up, where performance shortfalls noted in prior monitoring are listed and checked against current monitoring results.
- b. Community Complaints, where issues raised by the affected community are registered, tracked and outcomes recorded.
- c. Performance Indicator Results, where environmental performance against indicators are recorded.

#### Section 1: Performance Follow-up

Column 1	Column 2	Column 3	Column 4	Column 5	
Performance variable (#) / Date Observed	Reason for negative rating	Was agency responsible notified? / Date	Was problem corrected before next monitoring?	Was performance indicator adjusted?	

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# **Section 2: Community Complaints**

Column 1	Column 2	Column 3	Column 4	Column 5	
Person Registering Complaint / Date	Summary of Complaint	Was agency responsible notified? / Date	Was problem corrected before next monitoring?	Was Person satisfied with Action?	

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### **Section 3: Performance Indicator Results**

Project Name:							SIR	No.:		Package
#:Province:			_							
Project Start Date:										
	Startup	Rev.	Q1	Q2	Q3	Q4	Average	Completion	Rev.	Final
Recording Date:										
Design and     Preparations										
2. Worker Provisions										
3. Biodiversity										
Community Based     Monitoring										
5. Community Values / Safety										
Hydrology/Water     Pollution										
7. Project Completion										
Submittal Date:		Fo	r Cale	ndar C	uarter	:				
Inspector:										
(Signature)										

#### **Annex 5: Data Source**

- 1. PPMU of Thua Thien Hue province, Subproject Investment Report (SIR) of Upgrading Pho Lai Thanh Can Nam Duong Co Thap dike cum road, 2014.
- 2. PPMU of Thua Thien Hue province, Basic Design Explanation of Upgrading Pho Lai Thanh Can Nam Duong Co Thap dike cum road Subproject, 2014.
- 3. Quang Vinh Commune People's Committee, Annual Report on Social Economy, December 2013.