

Initial Environmental Examination

July, 2015

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

SUBPROJECT: LINING THE MIDDLE SECTION
OF RAC RIVER IRRIGATION SYSTEM, HA TINH
PROVINCE

CURRENCY EQUIVALENTS

(as of 15 September 2014)

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.0000472
\$1.00	=	VND 21,175

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 Developpement (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, LINING THE MIDDLE SECTION OF RAC RIVER IRRIGATION SYSTEM subproject will be implemented at Ky Khang, Ky Tho, Ky Tan, Ky Hoa, Ky Thu, Ky Hai communes and Ky Anh town - Ky Anh district, Ha Tinh 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:

¹ ADB Safeguard Policy Statement (2009)

² Law on Environment Protection (Revised) 2006; Decree 29/2011/ND-CP and Circular 26/2011/TT-BTNMT

- (i) Section 1 Introduction;
- (ii) Section 2 contains a description of the subproject;
- (iii) Section 3 contains a description of environmental conditions in the vicinity of the subproject;
- (iv) Section 4 contains a describes potential environmental impacts of the subproject;
- (v) Section 5 contains the environmental management plan including mitigation measures, monitoring system and cost estimation for Environmental Monitoring System (EMS) implementation;
- (vi) Section 6 contains activities description on community consultation and subproject disclosure;
- (vii) Section 7 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

DATA ITEM	SUBPROJECT DATA
GENERAL INFORMATION	
Subproject Name	Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province
Subproject Type	Irrigation
Executing Agency	People's Committee of Ha Tinh Province
Sub-project owner	Department of Agriculture and Rural Development, Ha Tinh Province
Sub-project Management Unit	PPMU of IRDPCP, Ha Tinh Province
Address of PPMU's office	South of Cay bridge, Thach Trung commune, Ha Tinh City, Ha Tinh province
Name and Title of Head of Project owner	Mr. Nguyen Van Duong Title : Director
Telephone, fax and email details of Project owner	Tel: 0393690336; FAX : 0393858921
Name of Environmental Officer of PPMU	Nguyen Thanh Lam
Telephone, fax and email details of PPMU Environmental Officer	0913816368, lamnguyen0609@gmail.com
SUBPROJECT DESCRIPTION	

DATA ITEM	SUBPROJECT DATA			
New project or rehabilitation project	Rehabilitation project The subproject includes some components as bellow <ul style="list-style-type: none"> • Lining canal N2 of Rac river irrigation system with a length of 13.066 km; • Constructing 05 bridges over the canal, water inlets, outlets, culverts, 01 spillway ect. on canal structures 			
Surface water or groundwater source	Surface water			
Determination of water source	Song Rac reservoir, taking water from Rac river			
Is this water used for domestic purposes or not?	No. The canal was built for irrigation purpose but some local people use the water for their living activities.			
Length of canals	L= 13.066 km			
Width and depth of canals	Canal	Type of canal	Width (m)	Depth (m)
	N2 - Section from K0+18.4 to K4+942.10	Trapezium	2.0	1.7
	N2 – Section from K4+942.10 to K5+656	Rectangle	2.8	1.6
	N2 - Section from K5+656 to K2+992.90	Rectangle	2.5	1.6
	N2-Section from K5+922.90 to K6+487.80	Rectangle	2.5	1.6
	N2 - Section from K6+553.50 to K10+66	Rectangle	1.90	1.55
	N2-Section from K10+115.50 to K13+65.90	Rectangle	1.2	1.4
CONSTRUCTION ACTIVITIES³				
Commencement date (month/year)	The first of June 2016 (as expected)			
Completion date (month/year)	The first of June 2018 (as expected)			
Number of workers	About 50 persons			
Necessary camps (Yes/No)	Yes, 01 main camp and 04 camps along the proposed canal			
Construction in rainy season (Yes/No)	No			
Concrete mixing plant	No concrete mixing plant, using mobilization concrete mixing machines			
Location and area of borrow area or description of material source	Filled soil will be purchased from licensed borrow pits located at a distance of 7-10 km from the subproject site; Stone will be purchased from a licensed quarry located 5-10km from the subproject site; Sand will be purchased from licensed mines located 5-10km from the subproject site. Other material such as steel, cement will be purchased			

³ Source: Basic Design Explanation of Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province, 2014

DATA ITEM	SUBPROJECT DATA		
	from city of Ky Anh town located 5-10km from the subproject site.		
Method on management and balance of excavated soil/surplus soil	<p>The quantity of excavated soil along the route of the canal will not great which is used for filling back the banks; Surplus soil is used for leveling the canal safety corridor;</p> <p>Excavated soil: 28,615 m³; Filling soil: 71,113 m³; Surplus soil: 15,106m³ (20% of excavated soil estimated + cutting humus); About 21,451m³ of cutting soil will be reused to fill up the canal's banks and 49,662m³ of filling soil will be purchased from licensed borrow pits in the subproject area.</p>		
Type and approximate quantity of raw construction materials	Items	Unit	Quantity
	Cutting soil	m ³	28,615
	Filling soil	m ³	71,113
	Cutting humus	m ³	9,743
	Concrete M200	m ³	13,634
	Steel	ton	724.4
Quantity of solid waste generated from construction (calculated monthly following m ³)	<p>Estimated soil and sand, debris: 15m³/month</p> <p>Domestic waste: 0.5kg/capita/day, in total: 50 x 0.5kg x 30= 750kg/month</p> <ul style="list-style-type: none"> - Soil, sand, debris, etc - Domestic waste 		
Number and conditions construction vehicles and equipment	07 bulldozers; 06 excavators; 06 compactors; 06 jumping jack compactors; 20 tip trucks, 26 concrete mixing machines; 06 water trucks. All vehicles and machines are in good conditions and have registration of periodical verification		
OPERATION AND MAINTENANCE ACTIVITIES⁴			
Water discharge at the beginning section of the canal: (m ³ /s)	Canal	Unit	Discharge (Q)
	N2	m/s	3.43
Irrigation area (ha)	1741 ha		
Operation, management and maintenance Unit	Northern Ha Tinh Irrigation One Member Limited Company is responsible for operation, management and maintenance after the completion of the work		
Water treatment process	No. Water in Rac river has been used only for irrigation purpose without sign of water pollution. There has not been any water treatment system in the subproject area.		
Descriptions of periodical maintenance activities	Annual maintenance: Annual maintenance activities include greasing machines, replacing		

⁴ Source: SIR of Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province, 2014

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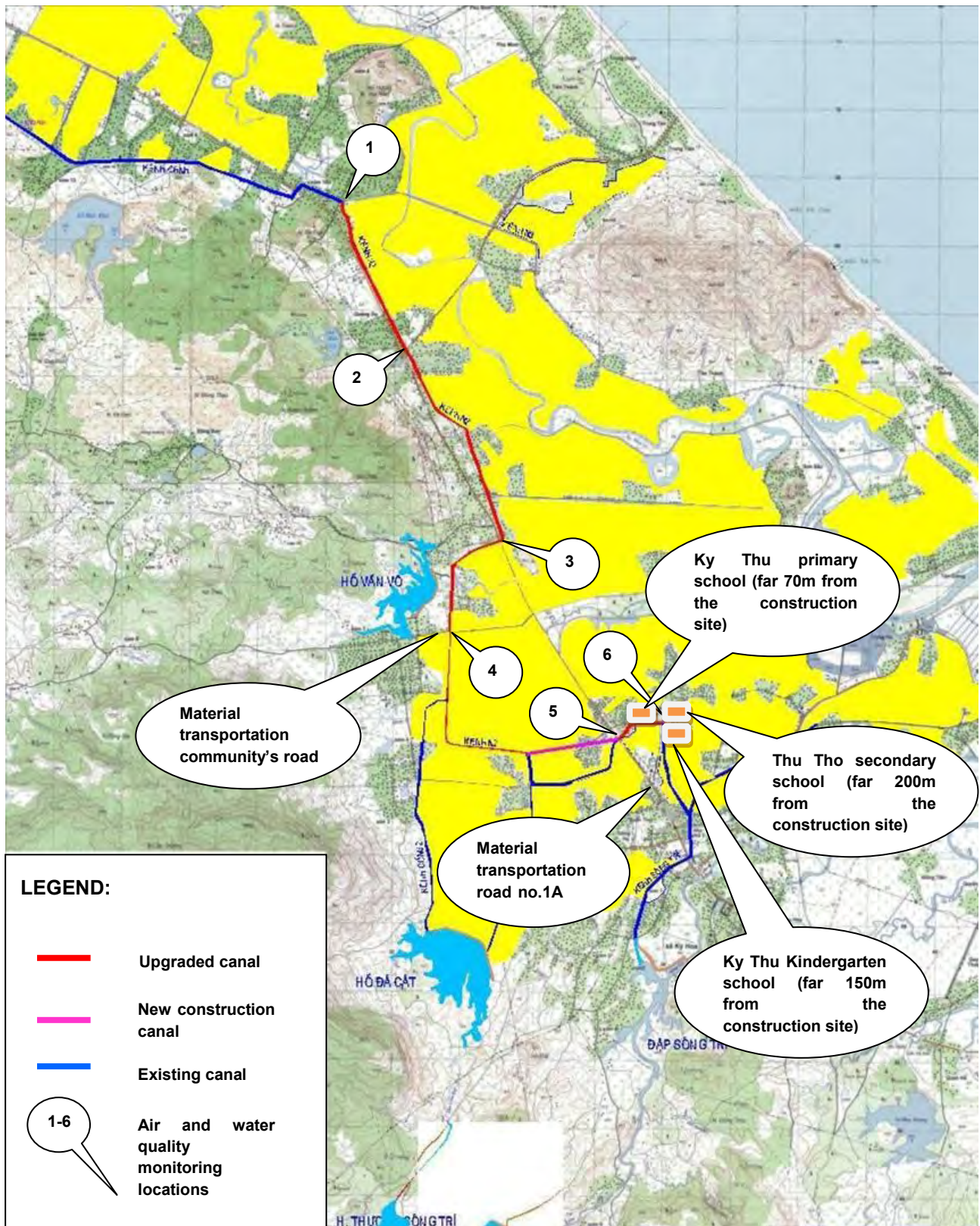
Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

DATA ITEM	SUBPROJECT DATA	
	broken minor parts of machines such as penstocks; dredging sludge of canals, culverts, spillways; repairing banks of canals; removing rubbish in the canals, culverts, troughs, spillways ect; repairing minor breaks of canal slopes, culverts, spillways and treating extrusion joints, penetration through animal holes and nests of white ants. Annual average cost for Operation and Maintenance Activities estimated 820,826,000 VND Periodic maintenance (every 7 years): Periodic maintenance is conducted every seven years for canals. Estimated cost for periodic maintenance is 30% of the capital cost including repairing significantly damaged works. Detailed activities will be based on the Economic-Technical Report according to the government's regulations on investment management.	
RESETTLEMENT AND LAND ACQUISITION ⁵		
Affected households	0 households	
Number of severely affected APs	There is no production land loss of >10% for any household.	
Number of APs that must relocate	No house/shop shall be relocated or rebuilt at new place.	
Total land area to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Agricultural land area to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Forestry land area to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Aquaculture land to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Residential land to be acquired(ha)	Temporary= 0 m2	Permanent = 0 m2
Garden land to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Other land to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Affected assets	None	None
SUBPROJECT COST		
Total subproject cost (VND and \$USD)	87,013,909,000 VND/ 4,109,276 USD	

⁵ This data is obtained from Resettlement Plan of the subproject

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):	Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town
District:	Ky Anh
Province:	Ha Tinh
Geographic location:	From 18°04'35" N ÷ 18°11'40" N. From 106°03'40" E ÷ 106°14'16" E.
PHYSICAL ENVIRONMENT CONDITIONS	
Air quality, noise and vibration	According to the monitoring data of Ha Tinh Center for Environmental Monitoring and Engineering conducted in Ky Anh town, the criteria for air quality in surrounding environment are within the limitation of Vietnamese Standard (QCVN 05:2009 and QCVN 26: 2010).
Climate and natural disasters	The subproject area has a monsoon tropical climate, divided into two distinct seasons. The rainy season lasts from September to December; average temperature fluctuates above 25°C accompanied by heavy rain. The dry season is from January to August, average temperature fluctuates below 23°C. The meteorology-hydrology data of Ha Tinh Center indicate there are 4-5 storms annually in the subproject area with heavy rainfall.
Topography and soils	Subproject area is generally flat, with elevations ranging from 1.0m to 10.0m. The soils are mainly ferral soil distributed in western, alluvial soil distributed along bank canal, sand distributed along seashore
Waterbodies	There are Rac 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 3-10 m from the ground surface. Water quality is not good. However, it is effected by salinity intrusion, aluminiferous.
Water quality	According to the institution for water, irrigation and environment, results of water quality analysis in March 2013 ⁶ show that parameters such as pH, DO, PO4 ³⁻ , NH4 ⁺ , NO2 ⁻ , NO3 ⁻ , BOD5, COD, PO4 ³⁻ , Zn, Pb, Hg,

⁶ Source: Environmental Management Plan, subproject: multi-purpose exploitation of Ke Go- Song Rac irrigation system in Ha Tinh province, Environmental Consultal Institute for Water and Environment, May 2013.

DATA ITEM	SUBPROJECT DATA
	<p>As, oil and coliform of canal N3 at hamlet 10 – Ky Dong commune - Ky Anh district and Cai River at Dai Dong hamlet – Ky Van commune are within allowed limits compared to Vietnamese Standards (QCVN 08:2008/BTNMT, Column B1) except NH4+. So that water quality of this canal in the project area is still not polluted.</p> <p>+ Vietnam's current standards on surface water quality:</p> <p>- QCVN 08:2008/BTNMT - National technical regulation on surface water quality;</p> <p>+ Vietnamese standard on waste water receiving sources:</p> <p>- QCVN 14:2008/BTNMT National technical regulation on domestic 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</p> <p>- MONRE's Circular No. 02/2009/TT-BTNMT regarding regulations on evaluation on waste receiving capability of water source.</p>
Flooding	This area always has been in state of inundation, 2 times per year (mainly in rainy season from August to Oct)
Terrestrial flora and fauna	<p>+ Terrestrial flora: mainly rice field, corn, bean and vegetables gardens in residential areas;</p> <p>+ Terrestrial fauna: cow, pig, chicken, ducks, etc.</p> <p>+ Terrestrial flora and fauna species in subproject area are not listed in Vietnam's Red Data Book.</p>
Protected areas	In subproject area, there is no historical or historical vestiges;
Environmental sensitive points	<ul style="list-style-type: none"> ❖ Residential area in Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Ky Anh district; ❖ Residential area in Tan Son, Tan Tho hamlets, Ky Tho commune, Ky Anh district; ❖ Residential area in hamlet 9, Ky Dong commune; ❖ Residential area in Quang Du, Quang Ich hamlets, Ky Khang commune ❖ Residential area in Thanh Binh hamlet, Ky Thu commune ❖ Pham Hoanh temple (far from the construction site 400 m);
SOCIAL ENVIRONMENT CONDITIONS	
UXO	The proposed canal will be based on the existing route and during management and exploitation process, Ha Tinh Irrigation Work Exploitation Limited Company always implemented dredging and repairing the existing canal and no UXO was detected;
Land use	<p>Agriculture land: 5002ha; Non-agriculture land: 6638ha; unused land: 9189 ha⁷.</p> <p>Land is mainly used for agriculture development;</p> <p>Agriculture: mainly plant rice 2 crops/year;</p>

⁷ Source: PPMU of Ha Tinh province, SIR of Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province, 2014

DATA ITEM	SUBPROJECT DATA
Nearest residential land	Residential areas are located along the canal and material transportation roads including Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, residential area in Tan Son, Tan Tho hamlets, Ky Tho commune, Residential area in hamlet 9, Ky Dong commune; Residential area in Quang Du, Quang Ich hamlets, Ky Khang commune; Residential area in Thanh Binh hamlet, Ky Thu commune; The distance between nearest residential houses and the proposed canal ranges from 20m to 200 m;
Rural infrastructure	Rural infrastructure works in subproject including electric system, roads, schools at all level, medical centers, public houses at communes/districts, etc. These infrastructures are not located near the therefore extent of land occupation area and activities during construction period have no impact on existing infrastructure except for taking advantage of rural road to transfer material.
Access to Water Supply & Sanitation and Solid Waste Management	Rubbish is collected 2 times a week in Ky Tan commune and Ky Thu commune. Rubbish is transported to Ky Anh landfill located in a distance of 6 km from the construction sites. There are 90% to 97% of people who access to sanitation latrines. Domestic wastewater discharges on the ground or to ponds, lakes and low areas. There are 80% to 95% of households accessing to clean water in the subproject area.
Agriculture	+ Agriculture: mainly wet rice, bean, corn, vegetable;
Population	Estimated number of people of 10 communes in the subproject area: 56,093 people. Population density is 61-1644 persons/km ² ⁸
Ethnic minorities	There are no ethnic minority groups 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 15.67 to 18.7 million/person/year; + The level of poverty (following the new poverty line made by the Government): number of poor households makes up 4.42% to 15.3% of the population.
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

⁸ Source: PPMU of Ha Tinh province, SIR of Lining the middle section of Rac river irrigation system, 2014

4. ENVIRONMENTAL IMPACT SCREENING

Table 3. Environmental impact screening

IMPACT/ CONCERN	POTENTIAL 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?	
Pre-Construction Stage Impacts					
Environmentally responsible procurement and SEMP preparation	Yes	N/A	N/A	N/A	<p>Including environmental requirements in bidding 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.</p> <p>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.</p>
Plan construction materials management	Yes	N/A	N/A	N/A	<p>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.</p>
Plan Spoil and Waste Disposal	Yes	N/A	N/A	N/A	<p>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</p>

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IMPACT/ CONCERN	POTENTIAL 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?	
					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 unexploded mine and bomb (UXO)	No				The canal is upgraded on the existing route. Therefore, there will be no possibility of UXO.
Effects on households from loss of residential or agricultural land	No				The canal is upgraded on the existing route. Thus, no households or land will be effected by the project
Construction Stage Impacts					
Dust, vegetation clearing, noise, water quality or other impacts from development of borrow areas and transportation for construction materials	Yes	Minor	Negative	Temporary	<p>Description: Stone and sand and soil will be purchased from licensed mines. These mines are operated in accordance with environment protection requirements of Ha Tinh 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.</p> <p>Location: Filling soil will be purchased from licensed borrow pits. They are located 7-10 km from the construction sites. Stone and sand will be purchased from the licensed quarry and mines which is far about 5 to 10 km from the construction sites. Transporting roads are asphalt and concrete (commune's roads and road no.1A). Some sections of commune's roads are earth (in Dai Dong hamlet, Ky Van commune)</p>

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IMPACT/ CONCERN	POTENTIAL 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?	
					<p>Soil transportation to the construction sites will affect the local roads of subproject communes.</p> <p>Affected Objects:</p> <p>The local roads in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town</p> <p>Local residents along transportation road (NH1A, commune road in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town</p> <p>Affected level: Small</p> <p>Dust and noise will not be seriously affected because (i) loading capacity of vehicles is less than 7 tons, (ii) communal roads are almost structured of asphalt with the width of 3.5-5m; (iii) Among the total soil about 49,662 m³ must be transported, requires about 26 tip trucks with a capacity of 7 tons within 24 months;(iv) the construction time is short (only 24 months)</p> <p>Time of impact: 24 months</p>
Erosion or sedimentation caused during clearing or earthworks	Yes	Negative	Minor	Temporary	<p>Description: In the work of excavating the canal and filling the banks of the proposed canal, construction of on the canal structures such as culverts, water inlets and outlets, if excavated soil is not collected then siltation will be occurred. It will be able to cause stuck in other canals that pass through the proposed canals, and create filling situation that affects cultivation areas of residents.</p> <p>Location:</p> <p>The intersections of the proposed canal and 43 existing irrigation canals</p> <p>The intersections of the proposed canal and 21 existing drainage canals. The fields nearby the proposed canal in Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang</p>

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IMPACT/ CONCERN	POTENTIAL 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?	
					<p>commune; Thanh Binh hamlet, Ky Thu commune; in other subproject communes;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • Cultivated land, rice fields closed by the subproject canals • Local peoples in beneficiary area <p>Affected level: minor due to excavated volume soil is reused to fill up banks of the proposed canal and the canal safety corridor;</p> <p>Time of impact: 24 months</p>
Impacts arising from temporary storage areas including dust, noise and water quality	Yes	Negative	Minor	Temporary	<p>Description: Unloading materials will generate noise, dust and Uncovered material such as sand and soil may generate dust which affects local residents and water quality. Stone, sand will be located near the construction sites where uncultivated land to minimize affecting on living residents. Other items (steel, cement) will be stored at commune PCs, other public buildings or in rented houses.</p> <p>Location: Residential areas near temporary storages</p> <p>Affected objects: Local residents living around temporary material store sites</p> <p>Affected level: Small</p> <p>Level of these impacts is minor because: (1) the temporary material store is mobile; (2) materials are mainly handled manually hence, dust and noise affects residential areas will not be significant. Stores will be located at dry places, away from water sources and channels therefore impacts on water quality will be insignificant;</p> <p>Time of impact: 24 months</p>
Pollution of waterways, aquatic environments or underground water	Yes	Negative	Small	Temporary	<p>Description: In the process of excavating, dredging the canal and filling banks of the canal and constructing on canal structures, oil and grease leakage will be able to cause water and soil pollution.</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
from wastes, chemicals, waste water or disturbance of contaminated soils					<p>On the other hand, if waste such as spoiled soil, sand will not be collected and controlled strictly then it will be able to make water turbidity increased.</p> <p>Location: At the intersections of the proposed canal and other canals as mentioned above, and construction sites and ponds near the construction sites</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • The subproject canal's water quality • Aquatic environments • Groundwater quality around the subproject canals <p>Affected level: Small</p> <p>The affected level is insignificant because (i) The number of construction machines is small (07 bulldozers; 06 excavators; 06 compactors; 06 jumping jack compactors; 20 tip trucks); (ii) the construction is scattered over 13.066 km long of the canal, therefore the concentration of the uncontrolled waste, oil and grease leakage is not remarkable; (iii) the construction duration is not long (within 2 years as expected);</p> <p>Time of impact: 24 months</p>
Changes of water quality due to changes in inlet operation which cause sedimentation or aluminiferous intrusion or pollution	No				Lining canals will not affect operation of salinity sluices or contaminated sediments

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Making sensitive flora disappeared and deteriorated	No				The proposed canals are located on fields or near residential areas. The site clearance for construction of the canals only affects people's crops and weeds. There is no sensitive flora surrounding the subproject area.
Dust or exhaust fumes from construction equipment	Yes	Negative	Minor	Temporary	<p>Description: Dust is mainly generated from excavating and dredging the proposed canal, filling the banks of the canal. Construction activities such as clearance, excavation of foundation, excavation of weak soil of the existing canal will result in suspended dust particles near construction sites, as well as generate gaseous emissions (NOx, SOx, CO, CO2, etc.). Besides, gaseous emissions will also be generated from other construction equipment such as excavators, concrete mixing machines that if emitted near/beside residential areas, can cause health problems to the residents</p> <p>Location: Dust and exhaust fumes are mainly generated by construction activities, affecting people living near construction sites in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • The subproject workers • Local people in the subproject area <p>Affected level: Small</p> <p>However, upgrading the canal and road does not cause serious dust or air pollution because i) the characteristics of the water facilities is constructed in moisture soil that does not cause dust (ii) the subproject area is rural, the construction site is spacious, (iii) number of construction machine is not many (07 bulldozers; 06 excavators; 06 compactors; 06 jumping jack compactors; 20 tip trucks) and distributes over 13.066 km length;</p> <p>Time of impact: 24 months</p>

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IMPACT/ CONCERN	POTENTIAL 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?	
Noise and vibration from construction equipment	Yes	Negative	Minor	Temporary	<p>Description: Construction activities such as clearance, excavation of foundation, excavation of sludge of the existing canal; mixing concrete; 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.</p> <p>Location: Residential areas along the transport roads (the commune's roads and road no.1A) and construction sites at in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town, in other subproject communes;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • The subproject workers • Local people in the subproject area <p>Affected level: Small</p> <p>Affected level is minor due to (i) The number of construction machine is not many (07 bulldozers; 06 excavators; 06 compactors; 06 jumping jack compactors; 20 tip trucks, 26 concrete mixing machines) and distributes over 13.066 km length; (ii) construction sites are mainly on the field, away from residential areas.</p> <p>Time of impact: 24 months.</p>
Increasing time and area of flooding	No				Canals will take the function of irrigating water for cultivation areas and take no function of drainage; therefore the drainage of the area will not be affected by construction activities;
Impact on traffic or conditions for property access	Yes	Negative	Minor	Temporary	<p>Description: Construction activities can affect on traveling for local people as increasing the density of traffic because construction vehicles will transport materials on roads and disturbance to individual households and cause risk for safety traffic in process transport raw materials.</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Location: A long the material transportation roads including 29 commune's roads.</p> <p>Objects: Local peoples living along transportation roads in in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town</p> <p>Affected level: Small</p> <p>Impact on traffic is minor because the traffic in the subproject area in low density with main transport vehicles of local peoples are motorbike and bicycle; people can use branch route in the communes to travel during construction.</p> <p>Time of impact: 24 months</p>
Impact on public infrastructure such as communication, electricity wires, inter-commune road, etc.	Yes	Negative	Minor	Temporary	<p>Description: Electricity cables were arranged in parallel with commune's roads and across local roads in some sections. Electricity cables may be affected by construction machine and vehicles if they are over height. Local roads may be damaged by trucks during transporting construction materials if they are over load.</p> <p>Location: Commune's roads</p> <p>Affected level: Small</p> <p>However, this impact is not significant because the number of construction machine is not many (07 bulldozers; 06 excavators; 06 compactors; 06 jumping jack compactors; 20 tip trucks, 26 concrete mixing machines) and the subproject will be constructed in only 24 months.</p> <p>Time of impact: 24 months</p>
Employment or livelihood benefits from employment of local people	Yes	Minor	Positive	Temporary	<p>Description: Contractors will use local laborers for simple works such as 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.</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Location: Local people in the subproject areas such as Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Objects: Local people in the subproject areas in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Affected level: Small</p> <p>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)</p> <p>Time of positive impact: 24 months</p>
Effects on nearby heritage items such as graves, pagodas etc.	No				The subproject does not affect any national or local heritage items such as pagodas, temples, gravestones nearby the proposed canals.
Construction workers cause social disruption	Yes	Negative	Minor	Temporary	<p>Description: Construction workers can cause social effects or disease transmission such as sore eyes, cholera, flu and respiratory problems.</p> <p>Social aspect: some social problems can appear such as gambling, drug addiction, prostitute, violence, conflict amongst workers, or between workers with local people.</p> <p>Workers have to get temporary residence certificate to avoid social disruption in the subproject area.</p> <p>Location: Workers' camps along the proposed canal in the residential area at Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang commune; Thanh Binh hamlet,</p>

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IMPACT/ CONCERN	POTENTIAL 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?	
					<p>Ky Thu commune; in other subproject communes.</p> <p>Affected objects: Affect directly on workers and indirectly on the community near the construction site.</p> <p>Affected level: Small</p> <p>Impacts are at unremarkable levels because the construction activities of workers can be controlled by working regulation in the construction site and construction duration is not long (within 24 months expected);</p> <p>Time of impact: 24 months</p>
Risk to health and safety to local people or construction workers	Yes	Negative	Minor	Temporary	<p>Description: Risks to public and construction worker health or safety could be raised due to the following reasons:</p> <ul style="list-style-type: none"> - Construction machines and equipment are arranged along the canal, obstructing the travelling of the residents and endangering the traffic, especially at nights; - There will be the risk of unsafe traffic conditions on the commune road, especially at intersection with residential road. - Dust and noise from material transport will have impacts on daily life of residents living in the subproject area; - There will be the risk of site incidents on workers due to the improper use of equipment and machines; - 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.

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Location: Residential area near the construction sites and material transportation roads; Construction sites along the proposed canals.</p> <p>Affected objects: Affect directly on workers and indirectly on the community near the construction site.</p> <p>Affected level: Small</p> <p>Exhaust fume, dust and noise do not have remarkable effects on residents because of small quantity, low transport frequency of trucks (26 trips/day) and short construction period (within 24 months as expected)</p> <p>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.</p> <p>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;</p> <p>Time of impact: 24 months</p>
Causes waste disposal problems from solid waste generated during construction activity or municipal waste generated in construction camps	Yes	Minor	Negative	Temporary	<p>Description: Lining canals as well as operations of the worker's camp is expected to generate solid waste such as spoil excavation soil, cutting humus 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 irrigation canals. Soil, cutting humus and debris in the canals will clog the waterways, deteriorate its water quality, and may cause the over flow of the canals cause 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</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>collected, it may cause health problems for workers and people living near the worker's camp.</p> <p>Location: Workers' camps along the proposed canal ; in other subproject communes; material stores, borrow pits.</p> <p>Affected level: Small</p> <p>Solid waste that will be generated from construction mainly includes domestic waste 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 dredging 13.066 km of the proposed canal; therefore, generation of construction waste is not so much about 15 m³/month (construction waste) and 0.75 tons/ month (domestic waste)</p> <p>Time of impact: 24 months</p>
Impacts on irrigation activities	Yes	Negative	Minor	Temporary	<p>Description: Construction of the canal requires dry construction area, meaning of stop water flow in the existing canal. A prolonged suspension of irrigation water supply may seriously affect crop production most especially paddy rice and vegetables that are greatly dependent on moisture. There will be a conflict between water demand for agriculture and construction demand during cultivation period and construction time;</p> <p>Location: The proposed canal and downstream cultivation area including Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • Farmers using irrigation canal's water that affected by construction of transfer canal • Cultivated area irrigated by existing canal <p>Affected level: Small</p> <p>Irrigation schedule could be changed flexibly to construction 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;</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					Time of impact: 24 months
Environmental Recovery	Yes	Minor	Negative	Temporary and Permanent	<p>Description: If after completing the construction of canals, 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.</p> <p>Location: construction sites, disposal areas and borrow areas</p> <p>Objects:</p> <ul style="list-style-type: none"> • People living near the proposed canals and camp sites and disposal, borrow areas • Land and water near the proposed canals and disposal, borrow areas <p>Affected level: Small</p> <p>As the amount of waste generated from construction activities and domestic waste is not much about 15 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.</p> <p>Time of impact: temporary to permanent</p>
Impacts in operation stage					
Inundation of sensitive vegetation from operation of the canal	No				Upgrading the canal will not cause flooding situation due to increment of irrigation area. On canal structures such as inlets, outlets and other controlling systems will be operated properly to handle flood. Moreover, there is no sensitive vegetation in the subproject area.

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Excessive exploitation of surface water will make water supply capacity cannot catch up with demands and/or cause conflicts among households	No				Reasonably exploit the surface water according to approved design task of the works with an irrigation capacity of 1741 ha; Increase the ability to meet the water demand for agriculture, especially the area has not been watered for long time; thereby harmonize the conflicts between households using water.
Water quality is changed due to salinity intrusion, aluminiferous water or sedimentation	No				The subproject area is not affected by seawater or tide, so it is not affected by salinity intrusion or alumiferous; The proposed canals will be lined by concrete so the water will not be polluted by sediment.
Water is exploited at sensitive ecological places/or reservation areas	No				There is no sensitive ecological areas or protection areas in the subproject area;
Productivity is improved by increase of irrigation capacity	Yes	Positive	Significant	Permanent	Description: Increasing irrigation area of 1741 ha compared with current cultivation area; cultivation productivity and diversification plants in the subproject area are increased. Location: Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town Affected object: Local peoples in beneficiary area

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					Affected level: Significant
Cultivation habits will be changed due to the turning of land use for agriculture purposes	Yes	Positive	Significant	Permanent	<p>Location: The utilization area of agricultural land will be increased at less cultivated area where often occurs drought in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town</p> <p>Affected objects: Local peoples in beneficiary area</p> <p>Affected level: Significant</p>
Reduce nutrition in the soil due to over-irrigation	Yes	Minor	Negative	Permanent	<p>Description: There is not statistics or research in the area regarding the percentage loss of nutrients. Actually, the rate of soil nutrient loss is very small due to the cultivation in the plain with small slope that can not cause drift of soil when it rains or excessive irrigation. After the proposed canals are completed, the regulating system will be facilitated and more flexible, hence, the land will not lose nutrients due to excessive irrigation.</p> <p>Location: beneficiary area in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • Soil quality of Cultivated land • Local peoples in beneficiary area <p>Affected level: Small due to application of advanced technology in agriculture;</p>
Soil erosion or scouring of streams or canals	No				The canal is built from concrete so that soil erosion and land slide will not occur;

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Congested canals cause flooding situation	Yes	Negative	Minor	Permanent	<p>Description: In case of improperly operation and regulation of the culvert system, water will cause overflows and broke the canals.</p> <p>In addition, waste on the canals can cause stuck in the canals.</p> <p>Location: Along the proposed canal.</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • The subproject canals • Local peoples in beneficiary area <p>Affected level: Small because proper management will be applied.</p>
Risks caused by natural calamity	Yes	Minor	Negative	Permanent	<p>Description: Natural calamity will have serious affects on resident life as well as economic growth in the region.</p> <p>Location: The subproject area, especially in Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang commune; Thanh Binh hamlet, Ky Thu commune; in other subproject communes;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • Local peoples in the subproject area • The subproject canals <p>Affected level: Small</p> <p>However, directly impacts on canals are minor because their positions are in paddy field, not directly suffered from river or dynamic flow damage</p>
Affecting water	Yes	Negative	Minor		<p>Description:</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
quality due to the increased volume of pesticide or chemical used for water treatment or increasing the waste water				Permanent	<p>After constructing the canals, the cultivated area will increase to 1741 ha. Consequently, the quantity of pesticides or chemical fertilizers will be increased.</p> <p>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.</p> <p>Location: Irrigation area in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Affected level: Small due to application of advanced technology in agriculture;</p>
Affects on employment or livelihood	Yes	Positive	Significant	Permanent	<p>Description: Increase incomes and living standards for people in the subproject area by means of increasing the agricultural land area for production, cultivation productivity and diversification plants of seasonal crops.</p> <p>Location: The subproject area in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa communes and Ky Anh town.</p> <p>Affected objects: People in the subproject area</p> <p>Affected level: Significant</p>
Impacts on ethnic groups	No				No ethnic households must relocate or loss of residential land in the subproject area
Generating solid and liquid waste	Yes	Negative	Minor	Permanent	<p>Description: Agricultural waste after harvested or garbage from other farming activities such as pesticide covers and straw is popular. Currently, waste has not polluted severely to the canal water quality, soil, crops and farming areas. However, in the long-term, it will affect increasingly to soil and water quality and plants if the management authorities do not control and minimize;</p> <p>Location: The subproject area in in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky</p>

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	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Hai, Ky Hoa communes and Ky Anh town.; in other subproject communes;</p> <p>Affected objects: Canals and farming areas</p> <p>Affected level: Small because proper management will be applied.</p>
Occupying land of canal bank and canal safety corridor for individual purposes	Yes	Negative	Minor	Permanent	<p>Description: The occupying land for planting perennial trees or for personal purpose in the right of way (ROW) of the channel corridors are remain. Occupying land for planting perennial trees are violate regulations of the Ministry of Agriculture and Rural Development on protection corridor canals and makes difficulties in implementing compensation and project execution during upgrading of the work;</p> <p>Location: the right of way (ROW) of the corridors of the canal of the sub-project in Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang commune; Thanh Binh hamlet, Ky Thu commune; in other subproject communes;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> • Embankment of the subproject canals • Local peoples in beneficiary area <p>Affected level: Small because regulations of the Ministry of Agriculture and Rural Development on protection corridor canals were issued to deal with this problem.</p> <p>regulations of the Ministry of Agriculture and Rural Development on protection corridor canals</p>

5. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

5.1 Environmental Mitigation Plan

Table 4. Environmental mitigation plan

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
Pre-construction stage				
Environment ally responsible procurement and SEMP preparation	<ul style="list-style-type: none"> ▪ EMP is included in tender documents to ensure that mitigation measures are budgeted and to prepare the contractors for environmental responsibilities. ▪ Specify in bid document that Contractors shall engage capable and trained staff or site agent(s) to take responsibilities 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. ▪ Any recent recommendations and initiatives from DONRE or other local environmental authorities will be incorporated in the EMP and updated as necessary. ▪ Before contracting based on the requirements of the IEE, contractors should prepare SEMP for implementation by contractors. Such SEMP 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 Provisioning Plan, Noise and Dust Control Plan, and Workers and Public Safety Plan 	Design Consultant, PPMU, Contractor, Environmental Consultant		Included in the contract

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Plan construction materials management	<p>As planned in design documents, the main construction material will be purchased from licensed borrow pits, quarry and mines near the subproject area.</p> <p>In case that, above material source will be changed, an appropriate material management plan should include the following:</p> <ul style="list-style-type: none">▪ Required materials, potential sources and estimated quantities available;▪ Material supply manners: preferring to 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 <p>Program for delivery of quarry and borrow material</p>	Design Consultant, PPMU		Included in the contract
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<p>Plan Spoil and Waste Disposal</p>	<ul style="list-style-type: none"> ▪ Re-use of waste materials & spoil disposal locations included in bid and contract documents. Surplus soil including cutting humus is used for leveling the canal safety corridor; Contractors may hire Ky Anh Urban Environment Company to collect transport and disposal waste at Ky Anh landfill. ▪ Select an properly treatment manners, preferred of for fill up the site of other projects activities/purposes. ▪ Determine waste materials & spoil disposal locations. The expectation is that construction waste will be stored temporarily along the proposed road, domestic waste will be stored in rubbish bins and then will be collected and treated by Ky Anh Urban Environment Company at Ky Anh landfill and contractors will be responsible for paying the bill. ▪ Agreement with Ky Anh Urban Environment Company need to be obtain during detail design or before starting construction activities; ▪ Waste materials transportation manner plans and schedules <p>Establishment of complaints management system for duration of the works</p>	<p>Design Consultant, PPMU</p>		<p>Included in the contract</p>
<p>Construction stage</p>				
<p>Dust, vegetation clearing, noise, water quality or other impacts from development of borrow areas and transportation for construction materials</p>	<ul style="list-style-type: none"> ▪ Operation licenses of the borrow pits must be obtained before exploiting construction materials. The operations licenses will include approved environmental certificate. Hence, dust and noise generated by exploitation activities will be minimized. ▪ When transporting construction materials, canvas must be used to cover to avoid dust. ▪ Watering the road surface based on a daily watering in the residential areas. ▪ Trucks must be in good condition and be maintained regularly. 	<p>Contractor</p>		<p>Included in the contract</p>
<p>Erosion or sedimentation caused during clearing or earthworks</p>	<ul style="list-style-type: none"> ▪ Install sediment fences and/or sediment traps at intersections of the proposed canal and existing irrigation and drainage canals; ▪ Gather material, soil far from overflows which cause sedimentation. ▪ If any excavated soil, waste or sedimentation damage cultivation area, contractors have to provide compensation 	<p>Contractor</p>	<p>Sediment fences, traps.</p>	<p>Included in the contract</p>

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	<p>for farmers.</p> <ul style="list-style-type: none"> ▪ Minimize area of land clearance and duration of works within this area; ▪ Restoration of areas cleared for the construction sites; ▪ Dredge sediment if necessary. ▪ Re-vegetation after construction activity finishes. ▪ Avoid clearing activities during the rainy season from September to December. 			
Impacts arising from temporary storage areas including dust, noise and water quality	<ul style="list-style-type: none"> ▪ Implement dust reducing methods as mentioned in the part "Dust or exhaust from construction equipment" at ▪ material extraction sites or temporary material storage yards; ▪ Material transportation is strictly forbidden in the evening when stores are located next to residential areas; ▪ All material storage areas and material production areas shall be located at least 50 meters from any residence. Cover sand loads with nets or sheets if materials are stored within 50 m from houses 	Contractor		Included in the contract
Pollution of waterways, aquatic environments or underground water from wastes, chemicals, waste water or disturbance of contaminated soils	<ul style="list-style-type: none"> ▪ Store chemicals in secure area, with concrete floor and weatherproof roof and away from watercourses and floodplains; ▪ Ensure construction equipment and vehicles are maintained in good conditions to avoid leakage; ▪ Provide rubbish bins and containers at camping sites and construction sites. Transport waste regularly from the sites to the Ky Anh landfill. ▪ Install sanitary toilets with septic tanks following sanitation regulation and washing facilities at construction camps. ▪ Collect debris, sludge at the construction sites. ▪ Avoid directing discharges from concrete mixing equipment to waterways ▪ Segregate hazardous wastes (oily wastes, fuel drums) and ensure that 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 	Contractor	Tanks for storing chemicals, sanitary toilets, rubbish bins and containers	Included in the contract

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	MONRE.			
Dust or exhaust from construction equipment Noise is generated from construction equipment	<ul style="list-style-type: none"> ▪ When transporting construction materials, implement strictly dust suppression measures such as watering of exposed surfaces and covering the trucks with canvas,; ▪ Ensure that all construction vehicles and equipment are well maintained; ▪ 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. 	Contractor District/Town Support Team, CPC, DPC	Canvas, washing facilities	Included in the contract
Affects on traffic conditions or for property access	<ul style="list-style-type: none"> ▪ Install signal lamps and sign panels at crossing points with road branches. ▪ Limit the speed of means of transport on the route; ▪ Limit construction activities on local roads and avoid implementing construction at rush hours (at the time of harvesting crops) ▪ Notify nearby community of schedule and duration of construction. 	Contractor Contractor Contractor		Included in the contract
Impact on public infrastructure such as communication, electricity wires, inter-commune road, etc.	<ul style="list-style-type: none"> ▪ Avoid impacts on low-voltage lines in villages during transport of materials and construction machinery by using vehicles and machines with the heights below electric wires; ▪ Minimize using heavy trucks for transporting materials in wet weather to avoid accidents from crashing into houses or works at road edge due to slippery roads; ▪ Contractors must repair material transportation roads if they damage them. ▪ Comply traffic regulations (limit the velocity of trucks); ▪ Install warning signs and avoid crashes to electric poles and houses. 	PPMU Contractor		Included in the contract
Construction workers cause social disruption	<ul style="list-style-type: none"> ▪ Consult with local Commune PC in the subproject area to arrange accommodation for workers (to avoid any negative impacts on local people's activities) and register temporary 			No marginal cost

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	residence card for them; <ul style="list-style-type: none"> ▪ 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 and sexually transmitted diseases and dissemination on social evils like drugs, gambling, prostitution, violence, stealing, etc. ▪ Install temporary drainage system and sanitary toilets at workers' camping sites. 	Contractor		
Risk to health and safety to local people or construction workers	<ul style="list-style-type: none"> ▪ Establish safety measures as required by law and by good engineering practice and provide first aid facilities that are readily accessible by workers. ▪ Workers shall be provided with appropriate personal protective equipment (PPE) such as safety shoes, hard hats, safety glasses, ear plugs, gloves, etc. at no cost to the employee. ▪ Construction camps shall be provided with toilet/sanitation facilities in accordance with local regulations to prevent any hazard to public health or contamination of land, surface or groundwater. ▪ Ensure reversing signals are installed on all construction vehicles. ▪ Minimize impacts of dust, polluted air as mentioned above; ▪ Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions; 	Contractor	Safety equipment	Included in the contract
Causes waste disposal problems from solid waste generated during construction activity or municipal waste generated in construction camps	<ul style="list-style-type: none"> ▪ Provide rubbish bins (02 bins at the main camp; 01 bin for each camp along the canal sides and its management road 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; ▪ Spoil soil need to be collected, and transported to approval disposal areas (Ky Anh landfill). ▪ Collect solid waste regularly and transport rubbish to Ky Anh landfill. 	Contractor	Rubbish bins and containers	Included in the contract
Impacts on	<ul style="list-style-type: none"> ▪ Lining the canal should be implemented in 	PPMU/		Included

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
irrigation activities	<p>dry season with application of construction and irrigation at same time.</p> <ul style="list-style-type: none"> ▪ The Contractor should coordinate with irrigation authority (Northern Ha Tinh Irrigation One Member Limited Company), 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); ▪ 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; ▪ PPMU and the Contractor should pay attention to mitigation measures to reduce damages or to implement compensation for arising impacts due to stop of water supply at cultivation area, etc ▪ Proposed construction time: after harvesting. Construction time should be implemented at the time when irrigation activities are not done. 	Contractor; Northern Ha Tinh Irrigation One Member Limited Company, commune authorities and local residents in the subproject area		in the contact with the contractor
Environmental recovery	<ul style="list-style-type: none"> ▪ Before construction is completed, the contractor will move all construction wastes and unused materials from the sites to approved sites ▪ Monitoring environmental recovery at working sites, worker's camps, construction waste disposal location, material stores. ▪ Monitor survival of trees / shrubs and grass in bioengineered slopes (e.g. at landslides, also transplanted / compensatory planting trees) and replant, as necessary. 	Contractor		Included in the contract
Operation stage				
Reduce nutrition in the soil due to over-irrigation	<ul style="list-style-type: none"> ▪ Coordinate with agriculture authority/ Agricultural extension units to ensure that farmers are trained on proper irrigation method; 	DARD of Ha Tinh province		Provincial budget

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
Congested canals cause flooding situation	<ul style="list-style-type: none"> ▪ Operate regulation works canal properly, flexibly with real condition to avoid waste and water overflow at the proposed canals; ▪ Periodically dredge irrigation canal system after harvesting crop, heavy rain and flood; ▪ Periodically inspect and maintain canals and on canal structures. 	Northern Ha Tinh Irrigation One Member Limited Company		Provincial budget
Risks caused by natural calamity	<ul style="list-style-type: none"> ▪ Ensure that subproject design will meet all safety standards on prevention of flooding, storms and other potential natural calamity; ▪ Irrigation works exploitation factory need repairs and maintains the works periodically to ensure the operation capacity. 	PPMU Northern Ha Tinh Irrigation One Member Limited Company		Provincial budget
Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water	<ul style="list-style-type: none"> ▪ Coordinate with agriculture authority to ensure that farmers are trained on irrigation method; ▪ 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; ▪ Ensure weed and other floating waste are periodically cleaned along the canals; ▪ Coordinate with Agriculture Extension Center to ensure that farmers are trained on Insect Prevention Method (IPM). 	Northern Ha Tinh Irrigation One Member Limited Company/ DARD		Provincial budget and other assistance funds
Generated solid and liquid waste	<ul style="list-style-type: none"> ▪ Periodically collect waste in canals and field surface; ▪ Build waste collection system; ▪ Improve the awareness of local people of waste management and collection in the field, canals via training courses. 	Northern Ha Tinh Irrigation One Member Limited Company/ DARD		Provincial budget
Occupation of canal and canal safety corridor for individual purposes	<ul style="list-style-type: none"> ▪ Implement strict management measures to protect the canal banks and reservoir protection area from being reoccupied (for tree planting and other encroachment) by regular check and establishment of regulations on treatment of violations (if any) 	Northern Ha Tinh Irrigation One Member Limited Company		Provincial budget

5.2 Environmental Monitoring Plan

5.2.1 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	Responsibility	Cost
Construction stage						
Minimization of noise generation	Noise level	At nearest residential areas of the proposed canal and residential areas near material transportation roads in Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang commune; Thanh Binh hamlet, Ky Thu commune; in other subproject communes	Observation and community consultation	Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Every 6 months during construction period or when community's feedback is raised	Monitoring consultant on environmental safeguard policies of LIC team	Included in separated contract with CPMU
Minimization of dust generation	Dust concentration	The same monitoring locations of Noise	Observation and community consultation	Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Every 6 months during construction period or when community's feedback is raised	Monitoring consultant on environmental safeguard policies of LIC team	Included in separated contract with CPMU
Control of	Sedimentati	The intersections	Visual	Weekly and	Construction	Included

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
surface water quality	on, rubbish, lubricating oil and solid waste BOD, DO, pH, TSS, Total coliform; fecal coliform, lubricating oil	of the proposed main canal 43 existing canals; The intersections of the proposed canal and 21 drainage canals.	Observation; Sampling and analysis	after large rain evens	Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	in the contract with PPMU
				Based on requirement of water supply	Local people, Community monitoring committee Local irrigation staff (commune)	Province budget Without marginal cost
				Once every 6 months during construction or in case of at any time or in case of complaints of residents	Monitoring consultant on environmental safeguard policies/LIC	Included in separated contract with CPMU
Labor safety and community safety	Number, use of labor equipment; signal system Obey for traffic law of transportati on mean of construction material	In construction sites and on material transportation roads along residential areas Dai Dong, Van Lac, Lien Son, My Lien, My Loi, Sa Xa and Thanh Son hamlets, Ky Van commune, Tan Son, Tan Tho hamlets, Ky Tho commune; hamlet 9, Ky Dong commune; Quang Du, Quang Ich hamlets, Ky Khang commune; Thanh Binh	Observation and community consultation	Weekly or when community's feedback is raised	Local people, Community monitoring committee	Without marginal cost
				Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Once every 6 months during construction or in case of at any time if necessary	Monitoring consultant on environmental safeguard policies/LIC	Included in separated contract with CPMU

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
		hamlet, Ky Thu commune; in other subproject communes.				
Operation stage						
Surface water quality	BOD, DO, pH, TSS, Total coliform; fecal coliform, turbidity	Location: At 06 points: at K18, hamlet 9, Ky Dong commune; at the bridge in Quang Ich hamlet, Ky Khang commune; at the bridge in Tan Tho hamlet, Ky Tho commune; at Dai Dong hamlet, Ky Van commune; at Thanh Binh hamlet, Ky Thu commune; at the end of the project in Ky Thu commune	Observation and community consultation Or sampling methods following Vietnamese standard when receiving feedback from communities	Twice a year in two first years of operation (1 time in rainy season and 1 time in dry season)	DARD, Northern Ha Tinh Irrigation One Member Limited Company;	Included in operation cost of Northern Ha Tinh Irrigation One Member Limited Company
Waste management	Conditions on environmental sanitation within the subproject area; temporary waste storage yard	Throughout the subproject area	Observation and community consultation	Once every 6 months in first 2 years of operation	Northern Ha Tinh Irrigation One Member Limited Company	Budget provided following regulations at Decree No.115
Periodical canal maintenance	Level of canal sedimentation and conditions of sluices, equipment and works on the main canal	Along the proposed canal	Field survey, community consultation	Once every 6 months in first 2 years of operation	DARD/ Northern Ha Tinh Irrigation One Member Limited Company	Local budget
Re-	Occupation	Along the	Field survey,	Once every	DARD/	Local

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
occupation of canal corridor	area, type of occupation (for planting trees or other purposes)	proposed canal	community consultation	6 months in first 2 years of operation	Northern Ha Tinh Irrigation One Member Limited Company	budget

5.2.2 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

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Pre - construction Stage						
Environmentally responsible procurement and SEMP preparation	Inclusion in bid docs	All canal alignment	Checking documents	Bid preparation, before start of civil works	PPMU	Project preparation
Plan construction materials management	Meting minutes and agreement with local authorities	All canal alignment	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 canal alignment	Checking documents	Prior to start of site works and throughout construction phase	PPMU	Project preparation
Construction Stage						
Erosion and sediment controls	Condition and capacity of controls	Throughout construction sites	Observation	Weekly and After heavy rain	Construction Supervision Consultant	Included in the contract signed with Construction Supervision Consultant (CSC) and Loan
				Every six months	Environmental Specialist of LIC Team	

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
						Implementation Consultant Team (LIC)
Materials storage	Condition of materials storage areas	Throughout construction sites	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with CSC and LIC
				Every six months	Environmental Specialist of LIC Team	
Construction equipment and vehicles	Noise and exhaust generation; covering of trucks; oil/fuel leaks	Throughout construction sites	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with CSC and LIC
				Every six months	Environmental Specialist of LIC Team	
Construction camp conditions	Cleanliness; waste disposal facilities; general condition	All construction camps	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with CSC and LIC
				Every six months	Environmental Specialist of LIC Team	
Risks to health and safety of local people and construction workers	Check implementation of all items Check compliance to Labour Code of Vietnam, Decree 06/1995/ND-CP 20/1/1995, Decree 110/2002/ND-CP 27/12/2002 and Circular 19/2011/TT-BYT 6/6/2011	Throughout construction site	Checking document, observation and community consultation	Weekly	Construction Supervision Consultant	Included in the contract signed with the CSC and LIC)
				Every six months	Environmental Specialist of LIC Team	
Property access	Rehabilitate the possibility of temporary and fixed	Affected assets: roads in commune and affected		Once during construction works and once after finishing	Construction Supervision Consultant Local Community	Included in the Contracts signed with CSC and LIC

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	access	assets during construction	Observation and community consultation	construction	Monitoring Boards	Local budget
				Every six months	Environmental Specialist of LIC Team	
Areas of standing water	Ponded or undrained water	Throughout construction site	Observation and community consultation	Weekly during rainy season	Construction Supervision Consultant Local Community Monitoring Boards	Included in the Contracts signed with CSC Local budget
				Once every 6 months during construction or in case of at any time if necessary	Monitoring consultant on environmental safeguard policies/LIC	Included in separated contract with CPMU
Impacts on irrigation activities	Check implementation of all items	Throughout construction site	Checking documents, observation and community consultation	Weekly	Construction Supervision Consultant	Included in the contract signed with the CSC and LIC
				Every six months	Environmental Specialist of LIC Team	
Waste disposal	Environmental sanitation at construction site and temporary waste storage area	Throughout construction site	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with CSC and LIC
				Every six months	Environmental Specialist of LIC Team	
Environmental recovery	Check implementation of items	Throughout construction site	Checking documents, observation and community consultation	Every six months and after completing each item	Construction Supervision Consultant/ Environmental Specialist of LIC Team	Included in the contract signed with the CSC and LIC
Operation Stage						

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
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	Northern Ha Tinh Irrigation One Member Limited Company	Provincial budget
Using irrigation water	Using matter	Households near canals	Observation and community consultation	Once every 6 months in first 5 years of operation	PPMU/ Northern Ha Tinh Irrigation One Member Limited Company	Budget provided following regulations at Decree No.115
Soil erosion or land slide in canal	Conditions of the canal; level of sludge in water	At sections which have not be rehabilitated	Observation	Once every 6 months in first 2 years of operation	PPMU/ Northern Ha Tinh Irrigation One Member Limited Company	Budget provided following regulations at Decree No.115
Prevention of soil erosion and land slide in the canal	Conditions of canal bank	At some representative locations in subproject area	Observation and community consultation	Once every 6 months in first 5 years of operation	PPMU/ Northern Ha Tinh Irrigation One Member Limited Company	Budget provided following regulations at Decree No.115

5.3 EMP Implementation Arrangements

Table 7. EMP Implementation

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
CPMU	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	Advice to PPMU Safeguards Officer on EMP implementation during first 2 years of operation Monitor progress during

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Organization	Roles and Responsibilities		
	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 pre-construction 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
Town and 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
Town and 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

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Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
		community environmental monitoring activities	
Commune Supervision Boards (CSBs) and local community members ⁹	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
Northern Ha Tinh Irrigation One Member Limited Company	N/a	N/a	Monitoring mitigation measure in the operation phase
LIC Team on environmental safeguard policies	N/a	Implement spot check environmental monitoring at 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 subproject area every week. Monitoring results will be included in the report which will be sent to PPMU.	N/a

⁹ 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.

5.4 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	CPMU/LIC	ADB
	Subproject Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of subproject	CPMU/LIC	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	Northern Ha Tinh Irrigation One Member Limited Company	ADB and Town and District People's Committee

5.5 EMP Budget

Table 9. EMP Budget

Item	Marginal Costs for Pre-Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
Monitoring				
PPMU's Internal monitoring	Included in management cost of PPMU	Included in the Contracts with the Contractor and CMC as well as in PPMU's management cost	Local and provincial budget	Included in contracts or other operation capital sources
Community monitoring	Not available (n/a)	Local budget (as in	Local budget	Local budget

Item	Marginal Costs for Pre-Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
		Decision No.80/2005/QĐ-TTg)	(as in Decision 80/2005/QĐ-TTg)	
Independent monitoring consultant on environmental safeguard policies	n/a	Included in a separate contract with CPMU	n/a	
Training on capacity enhancement on environmental monitoring capability	n/a		Local budget	n/a
Public disclosure	Defined in consultancy contract on IEE		n/a	Public disclosure
TOTAL <i>(intensify the capability and public disclosure)</i>				

6. PUBLIC CONSULTATION AND DISCLOSURE ACTIVITIES

6.1 Description of Activities to Date

Table 10. Public consultation and public disclosure activities

CONSULTATION METHOD	DETAILS OF ACTIVITIES	
Correspondence and meetings with local authorities (District and Commune PCs, Commune Fatherland Front, Women's Union, Youth Union and others)	Date of correspondence	15 /09/ 2014
	Dates of meetings (if requested)	23/09/2014
	Minutes of meeting attached (Yes / No)	Yes
Public meetings	Date(s) held	23/09/2014
	Location(s) held	PC's meeting hall and cultural house of Ky Van, Ky Tan, Ky Thu and Ky Tho communes
	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

CONSULTATION METHOD	DETAILS OF ACTIVITIES	
	Agenda attached (Yes / No)	Yes
	Minutes of meeting attached (Yes / No)	Yes
	Number of participants	Total have 140 people Man: 67 people Women: 73 people (the list of participants will be closed in the minutes of consultation)

6.2 Outcomes of Public Consultation to Date

Table 11. Results of public consultation

Description of Issue Raised	By Whom?	Required Follow-up Actions?
Detailed design	Local people of Ky Van and Ky Tho communes	In the surveying and detailed design period, the consulting firm is expected to coordinate with local authorities to find suitable water in lets and outlets
Affect water supply and agriculture production	Local people of Ky Van and Ky Tho communes	Make plan for water supply properly. Require farmer to implement in accordance with harvest
Restoration of construction site	Local people of Ky Van and Ky Tho, Ky Tan communes	It is desired that the sites will be restored after completing the construction
Traffic safety on commune's roads	Local people	The Contractors are supposed to slow down when transporting materials by the residential area along commune's roads. It is necessary to plant construction signposts and speed limit signs
Construction workers cause social disruption and sanitation problems	Local people	It is requested that the workers maintain sanitation and public order; 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.

6.3 Future Public Consultation Activities

Table 12. Proposed community consultation activities

Activity	Participants	Expected Outcomes	Schedule	Cost Estimate
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Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

Activity	Participants	Expected Outcomes	Schedule	Cost Estimate
Kick-off meeting prior to construction commencement	PPMU, the Contractor, Construction Supervision Consultant, community representatives at project area	Publicize construction contents, schedule and plan for water supply	1 week prior to construction commencement	Be estimated in EMP budget
Periodical meetings	Contractor, Construction Supervision Consultant and representatives of local authority, organizations and community at project area	Periodically check mitigation activities and arising problems Propose treatment alternatives and reach agreement on implementation	Once every month from construction commencement	Included in contract signed with parties

7. CONCLUSION AND RECOMMENDATIONS

8. The subproject “Lining the middle section of Rac river irrigation system, Ha Tinh Province” will be implemented by Ha Tinh PPMU under IRDPCP in Ky Anh district, Ha Tinh 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, NO_x, SO_x, 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;
 - Traffic disturb when transporting material, effect on infrastructure system (electricity, road, communication cables), risks of health and safety of local people and construction workers;
 - Waste disposal problems from solid waste generated during construction activities or municipal wastes generated in construction camps;
 - Agriculture wastes (residue of vegetables, pesticide cover, straw of cultivation area) from the boundaries of the upgraded main & primary canal have been focus at the canal bed, obstructing and polluting the flow;
 - Conflicts between agriculture water supply for irrigation area and water supply stop
 - Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water;
 - Risks of natural calamity due to Storm & flood occur during rainy season.
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.
 - The Contractors do not transport materials at rush hours (6 am to 7 am; 11 am -12 pm; 5 pm- 6pm) and to be supposed to slow down when transporting materials by the residential area and to plan construction signposts and speed limit signs
 - 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;
 - The Contractor should coordinate with irrigation authority (Northern Ha Tinh Irrigation one Member Limited Company), 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)
 - During exploitation process, management authority should disseminate and consult the local authority/water users to limit the excessive use of water; establish regulated procedures and detailed water supply plan; update information year by year to inform users, implement dissemination and training on scientific irrigation to the community for understanding and implementation,

- Avoid deteriorating soil/water quality by increasing quantity of fertilizer and pesticide. Ha Tinh PPMU should coordinate with Agriculture Extension Centre to ensure that farmers are trained on Integrated Pesticide Management (IPM)
- PPMU should ensure that subproject design will meet all safety standards on prevention of flooding, storms and other potential natural calamity

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 contractor must implement measures to mitigate environmental impacts in residential areas near the construction sites, along the material transportation roads and construction sites, worker's camps ect. 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 (Northern Ha Tinh Irrigation one Member Limited Company) have to periodically manage water quality 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. Lining the middle section of Rac river irrigation system, Ha Tinh Province will supply irrigation water for 1741 ha of agriculture land and improve livelihoods and reduce poverty for local people in the subproject area. It is expected to directly benefit 56,093 people in 10 communes and town namely Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh. Thus, the subproject will contribute to promote socio-economic development and modernize rural area;
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 canals are put into operation. Upon completion, the upgraded road will help supply irrigation water to farmers. 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 Ha Tinh 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 "Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province" should be approved by authorities so that next steps can be implemented to ensure good progress and project benefits.

8. ANNEXES

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

Annex 1: Photos of locations of air and water quality monitoring



Photo 1: Air quality monitoring point at K18, hamlet 9, Ky Dong commune



Photo 2: Water quality monitoring point at K18, hamlet 9, Ky Dong commune



Photo 3: Air quality monitoring point at material transportation road in Quang Ich hamlet, Ky Khang commune



Photo 4: Water quality monitoring point at the bridge in Quang Ich hamlet, Ky Khang commune



Photo 5: Air quality monitoring point at the construction site in Tan Tho hamlet, Ky Tho commune



Photo 6: Water quality monitoring point at the bridge in Tan Tho hamlet, Ky Tho commune



Photo 7: Air quality monitoring point at material transportation road in Dai Dong hamlet, Ky Van commune



Photo 8: Water quality monitoring point in Dai Dong hamlet, Ky Van commune



Photo 9: Air quality monitoring point at material transportation road and construction site in Thanh Binh hamlet, Ky Thu commune



Photo 10: Water quality monitoring point in Thanh Binh hamlet, Ky Thu commune



Photo 11: Air quality monitoring point at material transportation road and construction site in front of Ky Thu primary school, Ky Thu commune



Photo 12: Water quality monitoring point at the end of the project in Ky Thu commune

Annex 2: Public consultation and meeting minutes

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Ky Tho commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc
..Ky..Tho....., ngày..23..tháng..09..năm 2014
DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP
CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG
BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG
Về các chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số

Tên tiểu dự án: *Nâng cấp sửa chữa hệ thống thủy lợi vùng giữa Thủy lợi Sông Rác*
Xã: *Ky Tho*, huyện: *Kỳ Anh*, tỉnh: *Hà Tĩnh* *Kỳ Anh*

I. Thành phần tham dự:

- Ông/Bà: <i>V. Công Thành Hương</i>	Chức vụ: <i>Chuyên gia đầu tư</i>
- Ông/Bà: <i>Đoàn Văn Đình</i>	Chức vụ: <i>Chuyên gia tái định cư</i>
- Ông/Bà: <i>Vũ Hoàng Lâm</i>	Chức vụ: <i>Chuyên gia môi trường</i>
- Ông/Bà: <i>Ng. Thanh Lâm</i>	Chức vụ: <i>Cán bộ kỹ thuật Ban QLDA tỉnh</i>
- Ông/Bà: <i>Đương Đình Hải</i>	Chức vụ: <i>Chủ tịch UBND xã</i>
- Ông/Bà: <i>Ng. Tiến Hưng</i>	Chức vụ: <i>Cán bộ địa chính</i>
- Ông/Bà: <i>Lê Thị Minh</i>	Chức vụ: <i>Đại phó hội phụ nữ</i>

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm....(%) , Dân tộc thiểu số.....người, 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 môi trường, Chính sách Tái định 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 vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

1

- 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

III.1. Các vấn đề về giới, tham gia cộng đồng

Người dân mong muốn được tham gia nhiều hơn vào quá trình thực hiện dự án. Đảm bảo sự tham gia của cộng đồng trong ban giám sát. Trong quá trình tiến hành dự án, nhà thầu thi công cần nghiên cứu kỹ và thi công theo hướng nước nhằm đảm bảo lợi ích tối đa cho cộng đồng đặc biệt là phụ nữ.

III. 2. Các vấn đề về môi trường

Người dân ủng hộ dự án và mong muốn nhà thầu thi công sẽ kết hợp, báo cáo và dẫn dắt tìm ra các biện pháp giảm thiểu tác động từ môi trường và thực hiện tốt các biện pháp này nhằm đảm bảo vệ sinh môi trường, an ninh trật tự trong quá trình thi công.

Đảm bảo thiết kế kết hợp và dẫn dắt tìm ra điểm cấp nước và tôn nước hợp lý. Trước khi triển khai xây dựng phải có cam kết và đưa phương án đảm bảo an toàn, vệ sinh, môi trường. Trang bị dụng cụ và hành lý truyền cho dân, hạn chế vứt rác vào kênh.

III.3. Các vấn đề về tái định cư và dân tộc thiểu số

Biện pháp tránh hạn chế di dân dự kiến sẽ không ảnh hưởng đến đất đai và cây cối của người dân ở vùng cấp trên huyện cũng có sẵn.

Các hộ dân trong thôn thực hiện dự án và mong muốn để tiếp nhận sản phẩm công nghệ này để giúp đời sống trong khu vực được cải thiện.

IV. Kết luận

Nhìn chung bà con rất ủng hộ việc thực hiện dự án vì dự án đem lại lợi ích cho bà con, Bà con chỉ có đề nghị trong quá trình thi công và thiết kế cũng như vận hành các tác nhân liên quan phải đảm bảo các biện pháp quản lý thiên tai đúng từ mọi thời điểm cho khu vực dự án.

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

...*Kỳ Thọ*..., ngày *23* tháng *09* năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG –

KHOẢN VAY BỔ 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: *Nâng cấp, sửa chữa HTTL vùng giữa TL Sông Rác huyện Kỳ Anh*
 Xã: *Kỳ Thọ*..., huyện: *Kỳ Anh*..., tỉnh: *Hà Tĩnh*...

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
1	Lê Thị Thanh Huyền	Nữ	Sơn Bắc - Kỳ Thọ	<i>Huyền</i>
2	Phạm Thị Thảo	Nữ	Vĩnh Thọ - Kỳ Thọ	<i>Thảo</i>
3	Nguyễn Thị Hằng	Nữ	Sơn Bắc - Kỳ Thọ	<i>Hằng</i>
4	Đường Thị Vân	Nữ	Sơn Bắc - Kỳ Thọ	<i>Vân</i>
5	Lê Thị Hải	Nữ	Sơn Bắc - Kỳ Thọ	<i>Hải</i>
6	Phạm Đăng Bàn	Nam	Vĩnh Thọ - Kỳ Thọ	<i>Bàn</i>
7	Hồ Kiên Song	Nam	Sơn Bắc - Kỳ Thọ	<i>Kiến Song</i>
8	Đường Đình Ninh	Nam	Sơn Bắc - Kỳ Thọ	<i>Đình Ninh</i>
9	Nguyễn Long Cử	Nam	Sơn Bắc - Kỳ Thọ	<i>Cử</i>
10	Nguyễn Văn Chanh	Nam	Sơn Bắc - Kỳ Thọ	<i>Chanh</i>
11	Nguyễn Tiến Kỳ	Nam	Sơn Bắc - Kỳ Thọ	<i>Tiến Kỳ</i>
12	Lê Thái Hòa	Nam	Sơn Nam - Kỳ Thọ	<i>Thái Hòa</i>
13	Hồ Văn Trầm	Nam	Sơn Nam - Kỳ Thọ	<i>Trầm</i>
14	Trần Châu Huy	Nam	Sơn Nam - Kỳ Thọ	<i>Châu Huy</i>
15	Đường Đình Châu	Nam	Sơn Nam - Kỳ Thọ	<i>Đình Châu</i>
16	Trần Văn Đức	Nam	Sơn Nam - Kỳ Thọ	<i>Đức</i>
17	Lê Văn Hạnh	Nam	Sơn Nam - Kỳ Thọ	<i>Hạnh</i>

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
18	Phạm Đức Thế	Nam	Thị trấn Thọ	
19	Phạm Đức Bảo	Nam	"	Bảo
20	Hồ Văn Nhỏ	Nam	"	
21	Phạm Xuân Phấn	Nam	"	
22	Trần Văn Sĩ	Nam	"	
23	Phạm Linh Giai	Nam	"	
24	Võ Thị Hồng	Nữ	"	
✓ 25	Phạm Thị Thảo	Nữ	"	Thảo
26	Phạm Thanh Xuân	"	"	
27	Hồ Thị Hiền	"	"	
28	Nguyễn Thị Hiền	Nữ	Sơn Nam	
29	Lê Thị Tâm	"	"	
30	Hồ Thị Hòa	"	"	
31	Trần Thị Loan	"	"	
32	Hồ Minh Châu	Nam	Sơn Bắc	
33	Lương Thị Cúc	Nữ	Tân Thọ	
34	Trần Công Khang	Nam	Tân Thọ	
35	Phạm Đình Nhân	Nam	Tân Sơn	
36	Nguyễn Tiên Hùng	Nam	Tân Thọ	
37	Nguyễn Thanh Quang	Nam	Sơn Bắc	
38	Đường Đình Hải	Nam	Tân Thọ	
39	Hồ Minh Hiếu	Nam	Sơn Bắc	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên

Đại diện cộng đồng

Đại diện UBND xã



Dương Đình Hới

Đại diện Ban QLDA tỉnh

Đại diện tư vấn



Nguyễn Văn Lương

Đào Công Luận
Vũ Hoàng Luân

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Thọ, ngày 23 tháng 09 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG (Loan 2357-VIE)

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 23 tháng 09 năm 2014, tại Kỳ Thọ chúng tôi gồm:

I. Đại diện nhóm tư vấn của dự án Phát triển nông thôn tổng hợp miền Trung:

- Ông/Bà... Vương Thanh Thường Chức vụ... Chuyên gia đào tạo
- Ông/Bà... Đoàn Văn Bình Chức vụ... Chuyên gia tài chính của
- Ông/Bà... Vũ Hoàng Lân Chức vụ... Chuyên gia mã + rừcig

II. Đại diện Ban QLDA tỉnh

- Ông/Bà... Nguyễn Thanh Lâm Chức vụ... Cán bộ kỹ thuật Ban QLDA tỉnh
- Ông/Bà... Chức vụ...
- Ông/Bà... Chức vụ...

III. Đại diện địa phương

- Ông/Bà... Dương Đình Hải Chức vụ... Chủ tịch UBND xã
- Ông/Bà... Nguyễn Tiến Hưng Chức vụ... Cán bộ địa chính
- Ông/Bà... Lê Thị Hồng Chức vụ... Hội phó hội phụ nữ

Nội dung làm việc:

Cán bộ Ban Quản lý Dự án tỉnh trình bày về tài liệu dự án, lợi ích của dự án

Chuyên gia tài chính của trình bày vấn đề tài chính của và đến khi

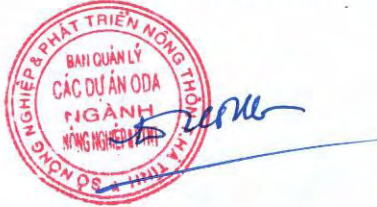
Chuyên gia mã trình bày các tác động môi trường của dự án, trao đổi các vấn đề môi trường, thị trường, vận hành và các biện pháp giảm thiểu tác động tiêu cực

Chuyên gia đào tạo trình bày những nét khác biệt trong đào tạo của dự án và way bộ s ung với dự án

qua đoàn 1, như câu tập huấn của các em, sự tham gia của phụ nữ và ng u ở các và dự án

Sau khi đọc lại biên bản, những người có mặt đồng ý về nội dung biên bản, không có ý kiến gì khác.

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương

Đại diện UBND xã



Dương Đình Hời

Đại diện tư vấn

Thương Văn

Vũ Hoàng Lân

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Ky Van commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc
.....*Kỳ Vân*....., ngày *23* tháng *09* năm 2014
DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG (Loan 2357-VIE)
BIÊN BẢN LÀM VIỆC

Hôm nay, ngày *23* tháng *09* năm 2014, tại *Kỳ Vân*..... chúng tôi gồm:

I. Đại diện nhóm tư vấn của dự án Phát triển nông thôn tổng hợp miền Trung:

- Ông/Bà <i>Vũ Hoàng Liên</i>	Chức vụ <i>Chuyên gia Môi trường</i>
- Ông/Bà <i>Đào Văn Anh</i>	Chức vụ <i>Chuyên gia Tài chính</i>
- Ông/Bà.....	Chức vụ.....

II. Đại diện Ban QLDA tỉnh

- Ông/Bà <i>Ng. Thanh Lâm</i>	Chức vụ <i>Chủ tịch Kỹ thuật</i>
- Ông/Bà.....	Chức vụ.....
- Ông/Bà.....	Chức vụ.....

III. Đại diện địa phương

- Ông/Bà <i>Ng. Tiến Điền</i>	Chức vụ <i>Phó chủ tịch UBND xã</i>
- Ông/Bà <i>Ng. Văn Lý</i>	Chức vụ <i>Phó CT UBND TTQ xã</i>
- Ông/Bà <i>Hoàng Thị Duyên</i>	Chức vụ <i>Chủ tịch hội phụ nữ xã</i>

Nội dung làm việc:

Ban quản lý DA tỉnh đã trình gửi thư về công trình, phạm vi của dự án, tư vấn tài chính, tư vấn môi trường, thành lập về công nghệ, môi trường, khi thực hiện dự án và biện pháp giảm thiểu tác động trong quá trình thi công, vận hành.

Người dân phát biểu ý kiến về các vấn đề tài chính, các môi trường.

Sau khi đọc lại biên bản, những người có mặt đồng ý về nội dung biên bản, không có ý kiến gì khác.

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương



Đại diện UBND xã

CHỦ TỊCH

Nguyễn Tiến Điền

Đại diện tư vấn

Đào Văn Bình

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

10/1/2014, ngày 23 tháng 09 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP
CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Nâng cấp và sửa chữa hệ thống thủy lợi sông Rác
Xã: Kỳ Liên, huyện Kỳ Anh, tỉnh Hà Tĩnh (Kỳ Anh)

I. Thành phần tham dự:

- | | |
|--------------------------|--------------------------------|
| - Ông/Bà Vũ Hoàng Lưu | Chức vụ: Chuyên gia Môi trường |
| - Ông/Bà Đoàn Văn Sơn | Chức vụ: Chuyên gia Tài chính |
| - Ông/Bà Ngô Thanh Lâm | Chức vụ: CB Ban QLDA tỉnh |
| - Ông/Bà Ngô Diệu Bình | Chức vụ: PCT UBND xã |
| - Ông/Bà Ngô Văn Uy | Chức vụ: PCT UBND xã |
| - Ông/Bà Hoàng Thị Duyên | Chức vụ: CT Hội phụ nữ xã |
| - Ông/Bà..... | Chức vụ..... |

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm....(%) , Dân tộc thiểu số.....người, 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 môi trường, Chính sách Tái định 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 vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

- 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

III.1. Các vấn đề về giới, tham gia cộng đồng

Người dân mong muốn tham gia ban giám sát công trình nhằm đảm bảo chất lượng công trình.
Đàn ông tham gia công việc quan trọng hơn là phụ nữ vì có nhiều kinh nghiệm hơn. Chú ý những điểm đặt công trình nước để thuận tiện cho việc đi lại của người dân, cũng như đảm bảo an ninh nước tưới cho việc canh tác nông nghiệp.

III. 2. Các vấn đề về môi trường

Đàn ông tham gia công việc quan trọng hơn là phụ nữ vì có nhiều kinh nghiệm hơn. Chú ý những điểm đặt công trình nước để thuận tiện cho việc đi lại của người dân, cũng như đảm bảo an ninh nước tưới cho việc canh tác nông nghiệp.
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Đàn ông tham gia công việc quan trọng hơn là phụ nữ vì có nhiều kinh nghiệm hơn. Chú ý những điểm đặt công trình nước để thuận tiện cho việc đi lại của người dân, cũng như đảm bảo an ninh nước tưới cho việc canh tác nông nghiệp.
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Đàn ông tham gia công việc quan trọng hơn là phụ nữ vì có nhiều kinh nghiệm hơn. Chú ý những điểm đặt công trình nước để thuận tiện cho việc đi lại của người dân, cũng như đảm bảo an ninh nước tưới cho việc canh tác nông nghiệp.

III.3. Các vấn đề về tái định cư và dân tộc thiểu số

Hình thức việc xây kênh dự án không ảnh hưởng đến đời sống, tài sản và người dân. Dự kiến kênh dự án khá rộng nên việc thi công cần phải hoàn thiện trong thời gian ngắn.

Không có người dân tộc thiểu số sống trong khu vực dự án.

Các hộ dân sống xung quanh dự án và nông dân địa phương cần được bồi dưỡng.

IV. Kết luận

Các bên liên quan thông tin nhất chi tiết trong thực hiện dự án và nông dân địa phương cần được bồi dưỡng. Lãnh đạo xã và người dân địa phương cần được bồi dưỡng phải tuân thủ theo những quy định luật quan trọng quốc gia thực hiện dự án.

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Vân, ngày 23 tháng 09 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG –
KHOẢN VAY BỔ 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: Nông cấy hệ thống thủy lợi sông Rac, Kỳ Anh
Xã: Kỳ Vân, huyện Kỳ Anh, tỉnh Hà Tĩnh

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
1	Nguyễn Thị Niệm	Nữ	Thanh Sơn - Kỳ Vân	Niệm
2	Bùi Thị Duyên	Nữ	Sa Xá - Kỳ Vân	Duyên
3	Lê Thị Xuân	Nữ	Kỳ Vân	Xuân
4	Đặng Thị Huệ	"	Kỳ Vân	Huệ
5	Lương Thị Bình	"	"	Bình
6	Trần Thị Vân	"	"	Vân
7	Đặng Thị Hương	Nữ	"	Hương
8	Nguyễn Thị Trúc	Nữ	"	Trúc
9	Võ Thị Hà	Nữ	"	Hà
10	Hoàng Thị Vinh	Nữ	"	Vinh
11	Lương Thị Lý	Nữ	"	Lý
12	Cao Thị Thuý Liên	Nữ	"	Liên
13	Lê Thuý Linh	Nữ	"	Linh
14	Hoàng Thị Duyên	Nữ	"	Duyên
15	Phạm Thị Thu Hồng	Nữ	"	Hồng
16	Lê Thị Lý	Nữ	"	Lý
17	Phan Thị Nhung	Nữ	"	Nhung

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
18	Nguyễn Thị Nga	Nữ	Kỳ rảo	Nga
19	Nguyễn Tiến Đạt	Nam	"	Đạt
20	Lê Văn Bay	Nam	"	Bay
21	Lê Thế Kỳ	Nam	"	Thế Kỳ
22	Trần Ngọc Kính	Nam	"	Trần Kính
23	Ngô Văn Mỹ	Nam	"	Mỹ
24	Đặng Văn Hữu	Nam	"	Hữu
25	Nguyễn Mậu Ngọ	Nam	"	Mậu Ngọ
26	Phùng Văn Hợp	Nam	"	Hợp
27	Trần Đức Hưng	Nam	"	Trần Hưng
28	Lê Văn Lý	Nam	"	Lý
29	Ngô Văn Bay	Nam	"	Bay
30	Phạm Văn Thắng	Nam	"	Phạm Thắng

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên

Đại diện cộng đồng



Đại diện UBND xã

CHỦ TỊCH

Nguyễn Tiến Điền

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương

Đại diện tư vấn

[Handwritten signature]

Trần Văn Anh

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Ky Tan commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc
Ky Tan, ngày 23 tháng 9 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG (Loan 2357-VIE)
BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 23 tháng 9 năm 2014, tại UBND xã Ky Tan chúng tôi gồm:

I. Đại diện nhóm tư vấn của dự án Phát triển nông thôn tổng hợp miền Trung:

- Ông/Bà... Lê Thị Ngọc Phương	Chức vụ... Tư vấn Cơ sở
- Ông/Bà... Dương Đức Chiến	Chức vụ... Tư vấn TĐC
- Ông/Bà... Nguyễn Thị Thu Trang	Chức vụ... Tư vấn MT

II. Đại diện Ban QLDA tỉnh

- Ông/Bà... Trần Văn Sơn	Chức vụ... Cán bộ BQLDA tỉnh
- Ông/Bà... Trần Văn Sáng	Chức vụ... Tư vấn Thiết kế
- Ông/Bà.....	Chức vụ.....

III. Đại diện địa phương

- Ông/Bà... Hoàng Xuân Tâm	Chức vụ... Phó CT UBND xã
- Ông/Bà... Lê Văn Thọ	Chức vụ... CBĐ địa Chính
- Ông/Bà... Nguyễn Thị Hồng Nhung	Chức vụ... Chủ tịch Hội phụ nữ

Nội dung làm việc:

1) Tư vấn thiết kế trình bày về các thông số chi tiết kỹ thuật của DATP.

2) Tư vấn về Cơ sở, TĐC, MT trình bày về chính sách an toàn của DA.

3) Cthi nhận những ý kiến về việc thực hiện Dự án tại địa phương Tư lank được đưa phương và các hộ BAH.

Sau khi đọc lại biên bản, những người có mặt đồng ý về nội dung biên bản, không có ý kiến gì khác.

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương

Đại diện UBND xã



Hoàng Xuân Dân

Đại diện tư vấn

Đương Đức Chiến

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Tân, ngày 23 tháng 9 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP
CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG
BIÊN BẢN HỢP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Nâng cấp, sửa chữa hệ thống kênh tưới vùng giữa Sông Rác
Xã Kỳ Tân, huyện Kỳ Anh, tỉnh Hà Tĩnh

I. Thành phần tham dự:

- | | |
|----------------------------------|--------------------------------|
| - Ông/Bà... Lê Thị Nông Phương | Chức vụ... Tư vấn về giới |
| - Ông/Bà... Dương Đức Chiến | Chức vụ... Tư vấn TĐC |
| - Ông/Bà... Nguyễn Văn Sơn | Chức vụ... Ban QLDA Tỉnh |
| - Ông/Bà... Trần Văn Sáng | Chức vụ... Tư vấn thi công |
| - Ông/Bà... Hoàng Xuân Tiến | Chức vụ... Phó CT UBND |
| - Ông/Bà... Lê Văn Thọ | Chức vụ... CB địa phương |
| - Ông/Bà... Nguyễn Thị Hồng Nắng | Chức vụ... Chủ tịch Hội phụ nữ |
- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm.....(%) , Dân tộc thiểu số.....người, 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 môi trường, Chính sách Tái định 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 vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;



- 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

III.1. Các vấn đề về giới, tham gia cộng đồng

- 1) Các hộ B.A.H đều cho rằng việc tham gia của S.C.D với T.D.A là cần thiết vì sẽ làm hạn chế những vấn đề tiêu cực và làm cho công trình tốt hơn.
- 2) Hộ phụ nữ và các thành viên nhất trí ủng hộ D.A và sẽ tham gia vào các giai đoạn của D.A.
- 3) Mong muốn nhà thầu khi thi công sẽ tận dụng nhân lực, lao động của địa phương để tạo điều kiện cho lao động tăng thu nhập.

III. 2. Các vấn đề về môi trường

- 1) Trong quá trình chuẩn bị dự án cần phải nâng cao hiệu quả thông tin về những vấn đề môi trường tại địa phương.
- 2) Trong quá trình thi công, yêu cầu nhà thầu phải có những cam kết về an ninh trật tự và giảm thiểu thiệt hại cho người dân.
- 3) Trong quá trình vận hành cần phải tuân thủ đúng các qui trình của việc vận hành.

III.3. Các vấn đề về tái định cư và dân tộc thiểu số

- 1) Do việc thực hiện hầu hết trên vì tư tuyến kênh cũ và những vì tư cũ nên hầu như không có việc thu hồi tài sản của các hộ BAH
- 2) Lãnh đạo địa phương và các hộ nhận tư thực hiện DA tại địa phương và đề hỗ trợ hết sức cho việc thực hiện DA
- 3) Lãnh địa phương cam kết thông tin tuyên truyền và sự bàn giao một bảng theo đúng tiến độ của dự án

IV. Kết luận

- 1) Lãnh đạo địa phương và các hộ nhận tư việc thực hiện DA tại địa phương
- 2) Đề nghị thực hiện và theo những gặp ý tham vấn của các hộ BAH nhằm phục vụ theo yêu cầu thực tế tại địa phương
- 3) Trong quá trình thực hiện, nếu bị ảnh hưởng do với đất đai, tài sản tạm thời cần phải có hỗ trợ cho các hộ BAH

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Tân..., ngày 23 tháng 9 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG –
 KHOẢN VAY BỔ 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: Nâng cấp, sửa chữa hệ thống kênh tưới Sông Rac
 Xã: Kỳ Tân, huyện Kỳ Anh, tỉnh Hà Tĩnh

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
	Nguyễn Tiến Hùng		Trung Thượng	Hùng
	Phạm Văn Hân		Đông Văn	Hân
	Nguyễn Tiến Lâm		Đông Văn	Lâm
	Ngô Văn Lương		Trung Thượng	Lương
	Ngô Hồng Quyền		xuân Đức	Quyền

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
	Nguyễn Thị Thu Phương		Tân Thành	Phương
	Trần Thị Hằng		Tướng Lạc	Hằng
	Tân Thị Vinh		Đông Văn	Vinh
	Hương Thị Lệ		Tương Thương	Lệ
	Lê Thị Xuân		Tung Phong	Xuân
	Nguyễn Thị Diệp		Nam Xuân Sơn	Diệp
	Phan Thị Hiền		Đông Miếu	H
	Phan Thị Thuận		Tung Phong	Thuận
	Nguyễn Thị Trang		Tướng Lạc	Trang
	Phan Thị Hương		Tung Phong	Hương
	Điền Thị Cẩm Anh		Tung Phong	Cẩm Anh
	Nguyễn Đức Tiến		Tướng Lạc	Tiến
	Nguyễn Thị Thuý		Xuân Đức	Thuý
	Nguyễn Văn Sáu		Tung Địch	Sáu
	Lê Văn Long		Đông Văn	Long
	Hoàng Xuân Hòa		Xuân Đức	Hòa
	Nguyễn Xuân Linh		Tung Địch	Linh
	Lê Văn Thảo		Hưng Thương	Thảo
	Hương Xuân Tân		Xuân Đức	Tân

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
	Nguyễn Thị Thu Phương		Tân Thành	Phương
	Trần Thị Hằng		Tướng Lạc	Hằng
	Tôn Thị Vinh		Đông Văn	Vinh
	Hương Thị Lệ		Trung Thượng	Lệ
	Lê Thị Xuân		Trung Phương	Xuân
	Nguyễn Thị Diệp		Nam Xuân Sơn	Diệp
	Phạm Thị Hiền		Đông Miếu	H
	Phạm Thị Thuận		Trung Phương	Thuận
	Nguyễn Thị Trang		Tướng Lạc	Trang
	Phạm Thị Hương		Trung Phương	Hương
	Đào Thị Cẩm Anh		Trung Phương	Cẩm Anh
	Nguyễn Đức Tiến		Tướng Lạc	T
	Nguyễn Thị Thuý		Xuân Đức	Thuý
	Nguyễn Văn Sáu		Trung Đức	Sáu
	Lê Văn Long		Đông Văn	Long
	Hoàng Xuân Hòa		Xuân Đức	Hòa
	Nguyễn Xuân Linh		Trung Đức	Linh
	Lê Văn Thảo		Trung Thượng	Thảo
	Hương Xuân Tân		Xuân Đức	Tân

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên

Đại diện cộng đồng

Đại diện UBND xã



Hoàng Xuân Tân

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương

Đại diện tư vấn



Đường Đức Chiến

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Ky Thu commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Ky Thu, ngày 23 tháng 9 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG (Loan 2357-VIE)

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 23 tháng 9 năm 2014, tại UBND xã Ky Thu chúng tôi gồm:

I. Đại diện nhóm tư vấn của dự án Phát triển nông thôn tổng hợp miền Trung:

- Ông/Bà... Lê Thị Mộng Phương... Chức vụ... Tư vấn GIS
- Ông/Bà... Dương Đức Chiến... Chức vụ... Tư vấn TĐ
- Ông/Bà... Ngô Thị Thu Trang... Chức vụ... Tư vấn MT

II. Đại diện Ban QLDA tỉnh

- Ông/Bà... Trần Văn Sơn... Chức vụ... cán bộ Ban QLDA
- Ông/Bà... Ngô Mạnh Cường... Chức vụ... tư vấn thiết kế
- Ông/Bà... .. Chức vụ.....

III. Đại diện địa phương

- Ông/Bà... Phan Văn Thiên... Chức vụ... phó CT UBND xã
- Ông/Bà... Võ Xuân Dũng... Chức vụ... cán bộ địa chính xã
- Ông/Bà... Võ Thị Sáu... Chức vụ... phó CT HĐND xã

Nội dung làm việc:

- 1) Giới thiệu về DAPP và mục tiêu của Dự án.
- 2) Tư vấn thiết kế kết thúc và đề án.
- 3) Tư vấn CSAT phổ biến những chính sách và thông tin của Dự án.
- 4) Chủ nhân những ý kiến, phản hồi của lãnh đạo địa phương và của các hộ tham gia buổi tham vấn và việc thực hiện DA tại địa phương.



Sau khi đọc lại biên bản, những người có mặt đồng ý về nội dung biên bản, không có ý kiến gì khác.

Đại diện Ban QLDA tỉnh



Nguyễn Văn Lương

Đại diện UBND xã



Phan Văn Thiên

Đại diện tư vấn



Dương Đức Chiến



CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Thọ..., ngày 23 tháng 3 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP

CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Nâng cấp hệ thống thủy lợi Sông Rào
Xã Kỳ Thọ, huyện Kỳ Anh, tỉnh Hà Tĩnh

I. Thành phần tham dự:

- | | |
|--------------------------------|------------------------------|
| - Ông/Bà... Lê Thị Hồng Phương | Chức vụ... Tư vấn môi trường |
| - Ông/Bà... Dương Đức Chiến | Chức vụ... Tư vấn TĐC |
| - Ông/Bà... Nguyễn Thu Trang | Chức vụ... Tư vấn MT |
| - Ông/Bà... Trần Văn Sơn | Chức vụ... Ban QLDA tỉnh |
| - Ông/Bà... Nguyễn Mạnh Sang | Chức vụ... Tư vấn thiết kế |
| - Ông/Bà... Phan Văn Thiện | Chức vụ... Phó CT UBND xã |
| - Ông/Bà... Võ Thị Sáu | Chức vụ... Phó CT HĐND xã |
- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm....(%) , Dân tộc thiểu số.....người, 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 môi trường, Chính sách Tái định 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 vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;



- 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

III.1. Các vấn đề về giới, tham gia cộng đồng

- 1) Ban CS.CĐ nhất trí việc thực hiện DA tại địa phương và sẽ tham gia vào các hoạt động của DA.
- 2) Ban CS.CĐ cũng yêu cầu thời tập huấn nhằm nâng cao năng lực của các thành viên.
- 3) Lãnh đạo hội phụ nữ nhất trí sẽ huy động thành viên ủng hộ và tham gia vào Dự án. Đề nghị nhà thầu khi thực hiện Dự án nên ưu tiên tuyển dụng lao động tại địa phương, nhất là với nữ giới.

III. 2. Các vấn đề về môi trường

- 1) Trong quá trình thi công, nếu xảy ra tình trạng bụi, khói, hay ô nhiễm, cần phải có biện pháp khắc phục ngay.
- 2) Đối với ảnh hưởng tại địa phương, cần có hoa màu trong quá trình thi công, cần phải bồi thường cho các hộ BAH.
- 3) Trong quá trình vận hành cần phải có các biện pháp để vận hành an toàn, nhằm đảm bảo hiệu quả cao nhất.

III.3. Các vấn đề về tái định cư và dân tộc thiểu số

- 1) Do vị trí thi công đều nằm trên vị trí của công trình cũ nên sẽ không ảnh hưởng tới tài sản của các hộ dân.
- 2) Ban lãnh đạo địa phương cam kết sẽ cấp M.B để nhà thầu thi công đúng tiến độ.
- 3) Trong quá trình thi công, nếu làm ảnh hưởng đến các tài sản khác thì yêu cầu nhà thầu phải cam kết bồi thường cho các hộ dân.

IV. Kết luận

- 1) Lãnh đạo địa phương và các hộ B.A.H nhất trí với việc thực hiện DA tại địa phương
- 2) Trong quá trình thi công, nếu ảnh hưởng tới môi trường cần phải có biện pháp xử lý để tránh làm ảnh hưởng tới các hộ dân.
- 3) Các ban ngành toàn thể sẽ tham gia vào ban CS.GD và Hải phủ mà cũng sẽ thông tin tới các thành viên trong Hội để nắm bắt kịp thời thông tin về dự án.



CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Kỳ Thuê....., ngày 22 tháng 9 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP CÁC TỈNH MIỀN TRUNG –
 KHOẢN VAY BỔ 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: Màng cấp điện chèo hồ thông thủy lợi sông Rac
 Xã: Kỳ Thuê....., huyện: Kỳ Anh....., tỉnh: Hà Tĩnh.....

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
	Võ Xuân Ngo		Thôn 2	Pgo
	Nguyễn Đức Thuận		thôn 2	Thuận
	Phan Văn Hùng		thôn 2	Hùng
	Võ Xuân Toàn		thôn 1	Toàn
	Lê Cử		thôn 1	Cử
	Võ Thanh Văn		thôn 1	Văn
	Võ Thị Đào		thôn 1	Đào
	Lê Thị Tiến		thôn 1	Tiến
	Nguyễn Chí Tâm		thôn 3	Tâm
	Lê Văn Nhỏ		thôn 3	Nhỏ
	Nguyễn Thị Nga		thôn 3	Nga
	Bà Chi Nhung		chèo Cầu Mới	Nhung
	Bà Chi Hằng		"	Hằng
	Bà Chi Việt		chèo Đan Lung	Việt
	Bà Chi Thanh Hằng		kế toán xã	Hằng
	Bà Chi Châu		PCIT HANOX	Châu
	Võ Thị Lan		thôn Đuống Sơn	Lan



Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)

Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Integrated Rural Development in Central Provinces Project

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên
	Nguyễn Thị Nhung		thôn 2	nhuy
	Võ Thị Hoàng		thôn 2	huỳnh
	Võ Thị Huyền		thôn 2	huyền
	Võ Thị Liên		thôn 3	liên
	Võ Thị Thanh Hằng		thôn 4	Thanh Hằng
	Võ Thị Sáu		thôn 3 - P. THẠM	Sáu
	Võ Thị Lam		thôn 4	Lam
	Hoàng Thị Xoa		thôn 4	Xoa
	Lê Thị Thanh Hằng		thôn 5	Thanh Hằng
	Võ Thị Ngọc		thôn 5	Ngọc
	Lê Hải Dương		thôn 5	Hải Dương



STT	Họ và tên	Giới tính	Địa chỉ	Ký tên

Đại diện cộng đồng

Đại diện UBND xã



Phan Văn Thiên



Đại diện Ban QLDA tỉnh

Đại diện tư vấn



Phan Văn Lương
 Dương Đức Chiến

Photos of public consultation meeting



Photo 13: Public consultation in Ky Van commune



Photo 14: Public consultation in Ky Tho commune

Annex 3: 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 Date: _____

Contract Amount: _____ Contract Duration (days) _____

Person Responsible: _____ Phone _____

PPMU EMO: _____ Phone _____

Part B: Monitoring checklist

Performance Indicator 1. Design and Preparations

The PPMU to complete 1-4 in conjunction with the subproject design consultant at the time the project is tendered.

Date of Monitoring: _____

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
1. Have all UXO been cleared prior to commencement of 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?			
4. For the applicable subproject type:			
a. Roads, embankments, irrigation works and coastal protection: does the design provide cross drainage to prevent flooding?			
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 PPMU and construction contractor 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?			
9. Have spoil disposal sites been selected in consultation with local authorities?			
10. Are official permits on record for quarry sites and borrow pits?			
Score (1-10; 10 total)			(%)

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)*Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province**Integrated Rural Development in Central Provinces Project***Performance Indicator 2. Worker Provisions**

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

	Yes	No	Remarks
11. 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?			
16. 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	Remarks
17. Does the project avoid encroaching on natural forests or wetlands?			
18. 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: _____

	Yes	No	Remarks
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:

Date: _____ Location: _____

Topics covered in presentation: _____

Comments from Attendees:

Initial Environmental Examination (IEE)/Commitment on Environmental Protection (CEP)*Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province**Integrated Rural Development in Central Provinces Project***Performance Indicator 5. Community Values and Safety**

Items 24 – 35 should be inspected quarterly. Date of Monitoring: _____

	Yes	No	Remarks
24. Is temporary access provided to adjacent properties as needed?			
25. Is permanent access to adjacent properties reinstated on completion of a segment of work?			
26. Are construction hours adjusted around houses, hospitals and schools to minimize disturbance?			
27. Does the contractor limit the scope of construction in progress to minimize community impacts?			
28. Are physical impacts on public infrastructure and service disruption minimized?			
29. Are materials transported on approved haul routes?			
30. Are construction equipments maintained in good condition?			
31. Do vehicles operate within legal speed limits?			
32. Are material loads traveling on public routes covered?			
33. Is dust suppressed by watering exposed surfaces?			
34. Has the contractor installed signs and lighting in vicinity of works on public roads?			
35. Is access to the construction site restricted to the public?			
Score (24-35; 12 total)			(%)

Performance Indicator 6. Hydrology/Water Pollution

Items 36 – 43 should be inspected quarterly. 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 Monitoring: _____

	Yes	No	Remarks
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?

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:										
1. Design and Preparations										
2. Worker Provisions										
3. Biodiversity										
4. Community Based Monitoring										
5. Community Values / Safety										
6. Hydrology/Water Pollution										
7. Project Completion										

Submittal Date: _____ For Calendar Quarter: _____

Inspector: _____

(Signature)

Annex 4:

Environmental mitigation measure to include into bid documents

Subproject of Lining the middle section of Rac river irrigation system subproject, Ha Tinh Province

Sub-project Activity	Potential impacts	Proposed Mitigation Measure
<p>Earthworks</p> <p>Concrete embankment</p> <p>Waste and material transportation</p>	<p>Noise and vibration generation</p>	<ul style="list-style-type: none"> ▪ Use modern and new construction machines and equipment to meet standards of exhaust, noise, and vibration as regulated by the Government. The Contractor needs to submit the Engineer documents proving that all construction vehicles, equipment, and machines are checked and meet requirements concerning noise and vibration generation of the current Vietnam standards as QCVN 26: 2010 for noise level and QCVN 27:2010 for vibration emitted by construction works; ▪ All noise and vibration generation activities shall be restricted to the hours of 22h – 6h and not to be undertaken on Sundays or public holidays at the location nearby residential area such as: Residential areas in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town. ▪ Regularly maintenance of construction machines. ▪ Provision noise protection equipment for worker; ▪ In case that, noise generation equipment need to run during night time and holiday time nearby the above sensitive objects, the detail schedule will be considered and approved by SC before could be applied. ▪ Local communities must be informed about construction schedules and time through informal public consultation or any local people meetings and notice board; ▪ Strictly implementing noise control measures as noted above through sampling and taking adequate corrective actions if needed
	<p>Dust and exhaust generation</p>	<ul style="list-style-type: none"> ▪ All excavated soil should be reused for levelling low areas where applicable such as excavated soil could be used for levelling existing sites for construction of access road surface. ▪ Excavation at site will be watered to maintain certain moisture levels, and to prevent or minimize dust dispersion. The watering activities have been proposed at least one per day during dry season in the residential areas, such as residential area in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town ▪ The construction machineries and equipment have to comply with Decision No. 249/2005/QĐ-TTg dated 10/10/2005 of Prime minister, Regulation on Emission roadmap for road transportation vehicles ▪ Cover the material storage, setting up appropriate of mobilize material to the site to ensure that material will not obstruct at the site and release dust; ▪ All material/waste storage shall be located at least 50 meters from any households and sensitive areas as mentioned above. ▪ Trucks carrying construction waste are covered. All trucks used should have well fitted bodies and not be overtopped in loading to avoid soil scattering. Excavated sludge will be transported by specialized vehicles. ▪ Speeds shall be limited when the trucks pass residential areas to

Sub-project Activity	Potential impacts	Proposed Mitigation Measure
		<p>constrain dust flying in the wind which affect health and daily activities of the people living along the roads. The certain section route will be identified by SPC. Speed limitation signs shall be adequately installed within construction site and its regulation shall be reminded to each driver by contractor.</p> <ul style="list-style-type: none"> ▪ Soil scattered on the paved road and public road shall be removed immediately.
<p>Sludge excavation, Worker camp establishment, Waste generation</p>	<p>Odour generation and in-sanitation condition</p>	<ul style="list-style-type: none"> ▪ Excavation activities must be carefully scheduled to avoid the rainy season in order to ensure drainage of runoff water as well as sanitation for both local residents and workers; ▪ It is strongly recommended that any intervention actions on the channels, it should be dewatered and dried before implementing excavation activities to reduce odour generation and in-sanitation condition and avoid polluting surface water quality. ▪ Construction waste need to be transported by adequate manners to use for levelling purpose at hollow areas along main canal in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town. ▪ Domestic waste and garbage from construction site will be collected by hygienic manner. Provide dustbins at work site. ▪ Disposal of solid wastes into canals, stream, other watercourses, agricultural field and public areas shall be prohibited. ▪ Burning of construction and domestic wastes shall be prohibited. ▪ Toxic waste, if any, need to be collected, transported and treated according to the Circular No. 12/2011-BTNMT dated on 14/04/2011 of MONRE. ▪ Excavated sludge will be transported by specialized vehicles to avoid the leaking out of sludge on the transport routes. ▪ Before the construction activities completed, contractors have to carry out site clearance and environmental recovery, such as: <ul style="list-style-type: none"> + Transport of all unused materials from the site; + Remove all construction machine and equipment, temporary facilities, worksites; + Environmental recovery at the site such as provision of green trees, grass in both construction sites and disposal location in Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town
<p>Excavate activities and worker camp establishment on sites...</p>	<p>Water quality impacts</p>	<ul style="list-style-type: none"> ▪ Worksite, camps, material storage areas and load/unload construction material/waste activities must be located far from watercourse to ensure that materials will not be disposed into water, ▪ Excavation activities of drain items must be scheduled to avoid rainy to reduce suspended matters in runoff water entering the surrounding water bodies and existing canals; ▪ Provide adequate facilities in the site including latrines, holding areas and garbage cans. Waste from latrines will be collected and treated properly through an economic contract with local environmental co-operatives/companies. ▪ Cover material storage areas when raining is needed. Temporary storage of construction and domestic waste on the sites will be no longer than 24 hours.

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Sub-project Activity	Potential impacts	Proposed Mitigation Measure
		<ul style="list-style-type: none"> ▪ The placement of washing instruments/vehicles next to the water bodies, existing canals (identified in Water quality impact section) will not allowed avoiding the leaching of waste, sludge, soil and oil contaminated water and maintenance activities will be banned on the sites in all construction drains; ▪ Equipping the dustbins and mobility septic tanks to work sites ((it is proposed that there will be 1 dustbin and 1 mobility septic tank for each site)
Inappropriate soil pit practices and concrete station operation	Soil erosion, vegetation clearance and run off water at soil pit	<ul style="list-style-type: none"> - Prioritize the use of existing soil pit sites with suitable materials and update the list of soil pit monthly and report to PPMU and minimize impacts on other local resources; - Procure materials only from DONRE authorized soil pit and borrow sites; - Extraction of sand and gravel in river beds shall be prohibited except: (i) where this is no technically and economically feasible alternatives and (ii) provided specific mitigation measures are implemented to minimize impact on river morphology, water quality (e.g., turbidity) and aquatic ecosystems (e.g., reduced extraction during fish spawning period); - Checking the environmental protection commitment documents of soil pit, asphalt concrete stations since the Project will purchased construction material and hot concrete from these areas; - Monitoring the implementation of environmental protection measures at the soil pit and concrete stations; - Supervision the responsibility of environmental recovery activities at the soil pit areas and concrete stations.
Inappropriate construction waste management	Sludge and waste water spreading to surrounding cultivation area as well as air pollution to ambient environment	<ul style="list-style-type: none"> ▪ All solid waste should be reused for levelling low areas where applicable; ▪ Construction waste shall to be transported by adequate manners to places under permission from Commune authorities Ky Khang, Ky Van, Ky Tho, Ky Tan, Ky Thu, Ky Hai, Ky Hoa and Ky Anh town and dumped at local peoples gardens ▪ Equip dustbins and mobility septic tanks to work sites ((it is proposed that there will be 4 dustbins and 2 mobility septic tanks provided at each construction site ; ▪ Domestic waste and garbage from worker camps need to be collected by hygienic manner through survive provision of Ha Tinh environmental co-operative; ▪ Disposal of solid wastes into canals, stream, other watercourses, agricultural field and public areas shall be prohibited; ▪ Burning of construction and domestic wastes shall be prohibited; ▪ Toxic waste, if any, need to be collected, transported and treated according to Circular No. 12/2011-BTNMT dated on 14/04/2011 of MONRE ▪ Before construction is completed, the contractor will move all construction wastes and unused materials from the site; ▪ Providing environmental protection measures at the soil disposal location include levelling, temporary drainage during rainy time, boundary edge provision, plantation and environmental recovery.
Use of hazardous	Air, soil and	<ul style="list-style-type: none"> ▪ The storage area for all hazardous substances are located away

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Sub-project Activity	Potential impacts	Proposed Mitigation Measure
substances and hazardous waste disposal	water contamination	<p>from any water bodies in the project area such as irrigation canals, ponds... to avoid the leakage to water bodies</p> <ul style="list-style-type: none"> ▪ Ensure that safe storage of fuel, other hazardous substances are agreed by PMU and have necessary approval/permit from DONRE and local authorities; ▪ Equipment/vehicle maintenance and refuelling areas will be confined to areas in construction sites designed to contain spilled lubricants and fuels; ▪ Fuel and other hazardous substances shall be stored in areas provided with roof as stated in TCVN 5507:2002- <i>Hazardous chemicals – Code of practice for safety in production, commerce, use, handling and transportation</i>; ▪ Segregate hazardous wastes (oily wastes, fuel drums) and ensure that storage, transport and disposal shall not cause pollution; ▪ Ensure all storage containers are in good condition with proper labelling; ▪ Collected, transported and treated by contract with company which has a work permit for treating hazardous waste disposal according to the Circular No. 12/2011/TT-BTNMT on 14 April, 2011 of MONRE.
Transport vehicle activities Construction machinery operation Worker concentration	Community Disturbance and Traffic safety	<ul style="list-style-type: none"> ▪ Place sign boards near construction sites to direct traffic means to slow down at the section close to Work site : ▪ Regulating the transport vehicle speed will not be over 20km when passing above areas; ▪ Construction materials shall be stored tidily at the required locations. ▪ Inform the community about construction schedule through informal public consultation or any local people meetings and notice board;
.Poor management at worksites	Health and safety for the construction workers and the nearby community	<ul style="list-style-type: none"> ▪ Constructor need to work with CS, PMU to establish labour safe regulations on the sites required by law and by good engineering practice, which include: electric safety, operating equipment - general safety requirements, general safety requirements. ▪ Workers shall be provided with appropriate personal protective equipment (PPE) such as safety shoes, hard hats, safety glasses, ear plugs, gloves, etc. at no cost to the employee.. ▪ A first aid kit will be provided at each construction site to ensure patients can receive first aid timely before transporting them to the medical station/hospital ▪ It is mandatory for workers to attend training courses on labour safety before they are recruited to work for the project; ▪ Supervise period on compliance to labour safe measures of workers at project sites. ▪ Contractors ensure to provide safe drinking water to workers for daily uses. ▪ Construction site shall be provided with toilet/sanitation facilities ▪ Contractor shall readily provide and maintain lights, protection fences, signboards and wardens where necessary as requested by the Engineer or local authorities.
Excavation, transport	Impacts to public facilities	<ul style="list-style-type: none"> ▪ Obtain the agreement with local authorities in using the transport routes, intervening the canals and if any downgraded observations due to project activities have been found, the

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Sub-project Activity	Potential impacts	Proposed Mitigation Measure
activities		<p>contractors have to fully compensate;</p> <ul style="list-style-type: none"> ▪ Providing the temporary irrigation canals or drainage canals during construction phases if any interventions will be made on these canals; ▪ Consultation and obtain the agreement from local authorities and local peoples on replacement of all affected canals on the fields; ▪ Record the status of the existing roads and canals before construction and make proper compensation for the damages if any. ▪ All public facilities should be fully compensated as its origin after completion of construction works;
Earthworks and excavation activities	Impacts on surrounding agricultural land and infrastructure	<ul style="list-style-type: none"> ▪ No construction materials and/or wastes fall into agricultural land; ▪ Providing the temporary irrigation canals or drainage canals during construction phases if any interventions will be made on these canals to ensure the water flows on all cultivation areas; ▪ Appropriate management of water pollution sources from construction activities to ensure that the construction will not pollute water and soil on all cultivation areas; ▪ Reinstate road surface and fix up damages caused to irrigation canals, water supply/drainage canals; ▪ All activities of contractor only allow within the acquired land areas.
Construction activities Concentration of workers and equipment	Social disturbance	<ul style="list-style-type: none"> ▪ Excavated pond will be dewatered and fenced to reduce high risk for local peoples; ▪ Construction materials shall be stored tidily at the required locations. ▪ Install barriers (temporary fence) at construction areas to deter people access to the site. ▪ The local people shall not be allowed in high-risk areas (excavation sites and areas where heavy equipment is in operation) . ▪ Remain the light during the night time on all construction sites. ▪ Construction workers who are not local people must register temporary residents and obtain temporary residential certificate from local authority. ▪ Educate workers on appropriate behaviour for interactions with local community and risks of communicable diseases
Obstructed drainage water flow	Localized flooding and insanitation condition	<ul style="list-style-type: none"> ▪ Setting up appropriate construction schedule at the site to avoid rainy season, especially for excavation activities; ▪ Provision supplemental temporary drainage plans in the construction site to ensure the quickly respond in case of heavy rain, other unforeseen drainage issues and avoid obstructing water in surrounding areas and construction sites; ▪ Providing the temporary irrigation canals or drainage canals during construction phases if any interventions will be made on these canals to ensure the water flows; ▪ Supplemental temporary drainage plans must be revised and approved by PMU, and Construction Supervision before construction works started.
excavation activities and Lining & upgrading for the	Affect irrigation water supply system for agriculture	<ul style="list-style-type: none"> ▪ Lining the canal should be implemented in dry season with application of construction and irrigation at same time. ▪ The Contractor should coordinate with irrigation authority (Northern Ha Tinh Irrigation One Member Limited Company),

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Sub-project Activity	Potential impacts	Proposed Mitigation Measure
canal	production	<p>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);</p> <ul style="list-style-type: none"> ▪ 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; ▪ PPMU and the Contractor should pay attention to mitigation measures to reduce damages or to implement compensation for arising impacts due to stop of water supply at cultivation area, etc ▪ Proposed construction time: after harvesting. Construction time should be implemented at the time when irrigation activities are not done.
All construction activities	Cultural heritage impacts	<ul style="list-style-type: none"> ▪ Where grave is found during construction, coordinate with local authorities to arrange for relocation and mapping the location of the graves before and after relocation; ▪ Halt construction activities, protect the site and inform construction supervision for guidance if artifacts are found at construction site.
Environmental recovery	Odour generation, unsafety and sanitation condition to local people	<p>Before construction is completed, the contractor will move all construction wastes and unused materials from the sites to approved sites</p> <p>Monitoring environmental recovery at:</p> <ul style="list-style-type: none"> ▪ Construction waste disposal location ▪ Material soil pit and borrow areas ▪ Working sites <p>Reinstate and ensure good condition for any effected public facilitates.</p>

Annex 5: Data Source

1. PPMU of Ha Tinh province, Subproject Investment Report (SIR) of lining the middle section of Rac river irrigation system 2014.
2. PPMU of Ha Tinh province, Basic Design Explanation of lining the middle section of Rac river irrigation system 2014.
3. Environmental Management Plan of multi-purpose exploitation of Ke Go - Song Rac irrigation system in Ha Tinh province, May 2013.
4. Ky Thu People's Committee, Annual Report on Social Economy, December 2013.
5. Ky Tho Commune People's Committee, Annual Report on Social Economy, December 2013.
6. Ky Van Commune People's Committee, Annual Report on Social Economy, December 2013.
7. Ky Tan Commune People's Committee, Annual Report on Social Economy, December 2013.