

Initial Environmental Examination

April 2019

Loan 3173-VIE : INTEGRATED RURAL DEVELOPMENT SECTOR PROJECT IN THE CENTRAL

(Additional Financing)

Subproject: UPGRADING IRRIGATION CANALS OF TAM
GIANG IRRIGATION SYSTEM SUBPROJECT -
PHU YEN PROVINCE

CURRENCY EQUIVALENTS

(as of March 2019)

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.000043
\$1.00	=	VND 23,200

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. The Integrated Rural Development Sector Project in the Central Provinces (IRDPCP) is being implemented through a sector loan from the Asian Development Bank (ADB). The Ministry of Agriculture and Rural Development (MARD) is the executing agency for the sector loan.
2. Due to the success of the project, ADB proposes to provide Additional Financing of \$70 million for a second phase of the project, which will be implemented in 6 of the original 13 provinces. The IRDSPCP 2nd phase is located in 6 provinces in central Viet Nam and has involved construction of medium scale rural infrastructure of the following types:
 - (1) Irrigation, drainage and flood control infrastructure including river embankments, sluices and salinity intrusion control structures;
 - (2) Rural roads including bridges and culverts.
3. As part of IRDPCP 2nd phase, Lining and upgrading irrigation canals of Tam Giang Irrigation System Subproject will be constructed in 3 Communes: An Thach, An Ninh Tay and An Ninh Dong of Tuy An District, Phu Yen Province
4. This Initial Environmental Examination (IEE) document has been prepared to meet the environmental safeguards requirements of the ADB¹ and GOV². The IEE/EPP contains the following information:
 - (i) Section I Introduction
 - (ii) Section II contains a description of the subproject;
 - (iii) Section III contains a description of environmental conditions in the vicinity of the subproject;
 - (iv) Section IV contains a describes potential environmental impacts of the subproject;
 - (v) Section V contains the environmental management plan including mitigation measures, monitoring system and cost estimation for the implementation of Environmental Monitoring System;
 - (vi) Section VI contains activities description on community consultation and subproject disclosure;
 - (vii) Section VII contains conclusion and recommendation including summarization of main impacts and typical mitigation measures in the subproject's implementation.

¹ ADB SPS 2009

² The Law on Environmental Protection adopted by the National Assembly of the Socialist Republic of Vietnam dated January 01, 2015; Decree No.18/2015/NĐ-CP on April 01, 2015 and circular No Circular No. 27/2015/TT-BTNMT on May 29, 2015

2. PROJECT DESCRIPTION

Table 1. General information of subproject

DATA ITEM	SUBPROJECT DATA
GENERAL INFORMATION	
Subproject Name	Lining and upgrading irrigation canals of Tam Giang Irrigation System Subproject of Tuy An District , Phu Yen Province
Subproject Type	Irrigation
Project owner	DARD of Phu Yen Province
Sub-project Management Unit	PPMU of IRDPCP, Phu Yen Province
Address of Project owner	77 Phan Dinh Phung, Tuy Hoa City, Phu Yen province
Name and Title of Head of Project owner	Nguyen Trong Tung Title : Director
Telephone, fax and email details of Project owner	Tel : 057.3841869; FAX : 057.3842704
Name of Environmental Officer of PPMU	Tran Con Son
Telephone, fax and email details of PPMU Environmental Officer	0972735248
SUBPROJECT DESCRIPTION	
New project or rehabilitation project	Lining and Upgrading and improvement
Design Irrigation Frequency	P= 75%
Surface and underground water	Surface water
Identification of water source	Tam Giang Weir (Cai river)
Water source used for living or not?	No. The main canal is upgraded for irrigation purpose. At residential areas: local peoples use well water and tap water from water supply system
Area to be irrigated	800 ha for 2 crops
Length of existing canals and upgraded canal	Length of existing canals: 5,800 m of trapezium stone canals are damaged and degraded Length of upgraded canals: 4,747 m of rectangular concreted canal -M300 Length of existing degraded stone canals and proposed concrete canals are described in bellow table

DATA ITEM	SUBPROJECT DATA						
	KC4 main canal system of Tam Giang irrigation canal system						
	No	Section		Existing Degraded Stone Canal Length (m)	Proposed concreted Canal Length (m)		
	1	K0+000	K1+385	1385.00	1385.00		
	2	K1+385	K2+132	747.00	747.00		
	3	K2+132	K3+220	1088.00	1088.00		
	4	K3+220	K3+637.80	417.80	417.80		
	4a	K3+637.80	K4+300	662.20	662.20*		
	4b	K4+300	K4+691	391	391 *		
	5	K4+691	K4+900	209	209		
	6	K4+900	K5+800	900.00	900.00		
Note : * Rectangular concreted canal completely with size BxH = 1.0 x 1.0m							
The width and design depth of upgrading canal	Cross surface is rectangular with dimension of KC4 main canal						
	TT	Section		Length (m)	Capacity (Q)	Width B	Depth H
					(m³/s)	(m)	(m)
	1	K0+000	K1+385	1385.00	1.280	2.30	1.20
	2	K1+385	K2+132	747.00	1.120	2.10	1.20
	3	K2+132	K3+220	1088.00	0.768	1.60	1.20
	4	K3+220	K3+637.80	417.80	0.288	1.00	1.00
	4a	K3+637.80	K4+300	662.20	Rectangular concreted canal completely with size BxH = 1.0 x 1.0m		
	4b	K4+300	K4+691	391			
	5	K4+691	K4+900	209	0.096	0.85	0.90
6	K4+900	K5+800	900.00	0.083	0.75	0.90	
Structures on canal	– 7 inlet culverts on the branch canal – 16 water gates						

Initial Environmental Examination (IEE)

Upgrading Irrigation Canals of Tam Giang Irrigation System subproject, Phu Yen province

Integrated Rural Development Sector Project in Central Provinces-Additional Financing

DATA ITEM	SUBPROJECT DATA
	<ul style="list-style-type: none"> – 1 concrete bridge over the canal – 5 Cross culverts – 4 Regulators – 2 Drainage culverts – 2 outlets – 17 slabs
The width and length of management road	Upgrading of 5,800 m canal embankment road with Class B (according to TCVN10380-2014): The road base : 4.0 m The road surface : 3.0 The road side : 0.50m x 2 = 1.0 m It is made of concrete M300 and 18 cm thick.
CONSTRUCTION ACTIVITIES	
Construction commencement date (month/year)	Expect April 2019
Construction completion date (month/year)	Expect The end of June 2019
Number of construction workers	Approx. about 100 workers (average)
Construction camp required (Yes/No)	Yes. About 3 worker camps (20-30 workers/camp)
Construction in rainy season (Yes/No)	In case of favorable weather conditions
Number and conditions construction vehicles and equipment	+ Excavators: 02 units; + Bulldozers: 04 units; + Dump-trucks: 12 units; + Concrete compactors of all kinds: 10 units; + Water pumps: 03 units; + Generators: 02 units; + Water spraying vehicles: 02 unit; + Oil trucks: 01 unit; + Cutters, benders: 5 units; + Mobile concrete mixing machines: 5 units;
Location and square of disposal site and sources of materials	<u>Permanent disposal site:</u> To be defined before commencement time & to be approved by CPCs <u>Temporary gathering site:</u> Along the canal banks have some wild area where use for gathering material. This does not affect residential area <u>Sources of materials:</u> Sand and gravel taken from the Cai River in An Dân commune (near by Ngan Son Bridge) an average of about 5-6 km to the

DATA ITEM	SUBPROJECT DATA																																				
	site, the sand is operated under license from DONRE <i>Stone:</i> from Xuan Quang Quarry in Xuan Quang 3 Commune, about 25 km to the site <i>Other materials</i> (cement, steel & others) : to buy in Tuy Hoa City around 30 km to the Site;. <i>Borrow area:</i> will be exploited at Lò Dầu in An Ninh Tay commune and in Phú Hội Village -An Ninh Dong commune about 3 km to the subproject site																																				
Quantity of excavated soil & filling soil	Quantity of excavated soil & filling soil as bellow <table><tr><th>No</th><th>Items</th><th>Unit</th><th>Management road combined interior field traffic road</th><th>Canal</th><th>Total</th></tr><tr><td>1</td><td>Excavated soil</td><td>m³</td><td>7,764</td><td>3,659</td><td>11,423</td></tr><tr><td>2</td><td>Filling soil</td><td>m³</td><td>3,774</td><td>10,729</td><td>14,503</td></tr></table>	No	Items	Unit	Management road combined interior field traffic road	Canal	Total	1	Excavated soil	m ³	7,764	3,659	11,423	2	Filling soil	m ³	3,774	10,729	14,503																		
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1	Excavated soil	m ³	7,764	3,659	11,423																																
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Balancing and management measures for excavated/excess soil	The excavated soil will be used for backfill of management / production road along the canal system																																				
Quantity of construction materials	<table><tr><th>No</th><th>Items</th><th>Unit</th><th>Management road combined interior field traffic road</th><th>Canal</th><th>Total</th></tr><tr><td>1</td><td>Concretes</td><td>m³</td><td>4,353</td><td>3,000</td><td>7,353</td></tr><tr><td>2</td><td>Macadam</td><td>m³</td><td>2,894</td><td></td><td>2,894</td></tr><tr><td>3</td><td>Steel</td><td>kg</td><td></td><td>2,385</td><td>2,385</td></tr><tr><td>4</td><td>Formwork</td><td>m²</td><td>2,118</td><td>25,582</td><td>27,700</td></tr><tr><td>5</td><td>Bitumen paper</td><td>m²</td><td>24,539</td><td>100</td><td>24,636</td></tr></table>	No	Items	Unit	Management road combined interior field traffic road	Canal	Total	1	Concretes	m ³	4,353	3,000	7,353	2	Macadam	m ³	2,894		2,894	3	Steel	kg		2,385	2,385	4	Formwork	m ²	2,118	25,582	27,700	5	Bitumen paper	m ²	24,539	100	24,636
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OPERATION AND MAINTENANCE ACTIVITIES																																					
Design Capacity at canal : (m3/s)	Design capacity for all canal – grade 1: 0.083 – 1.280 m ³ /s																																				
Subproject irrigated area (ha)	800 ha will be irrigated sustainability by gravity																																				
Cycle of water treatment	No. Water source from Cai river has been using for irrigation purpose. Currently, there is no cycle of water treatment																																				
Operation, management and maintenance Unit	Dong Cam One Member Limited Liability Company is responsible for operation, management and maintenance after the completion of the work																																				
Maintenance activities	(i) Regular operate and maintain: Carry out regularly to minimize broken for works, including: drainage canal heart, do clearance, repair temporary broken,																																				

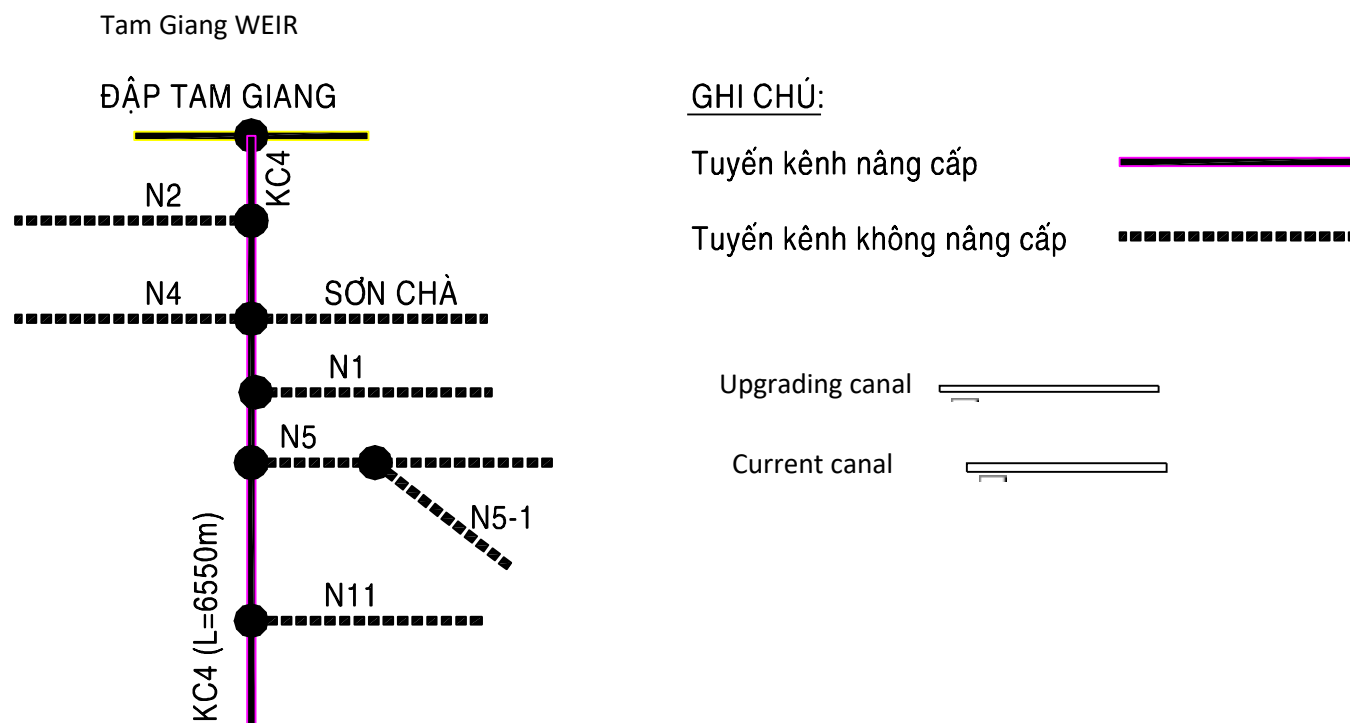
DATA ITEM	SUBPROJECT DATA	
	maintain exhaust and paint for mechanical equipment (ii) Periodically operate and maintain Carry out for broken and downgraded section to restore works item. Displace mechanic items and repair broken, carry out dredging and maintain canal side. Frequency: twice/ a year (iii) Operation and maintenance in case of emergency: carry out repair for broken and downgraded items. Carry out check, propose technical method and cost for repairing based on current regulation of State.	
RESETTLEMENT AND LAND ACQUISITION ³		
Number of Affected households	Total land acquisition : Nil (from Land acquisition report)	
Number of severely affected person	Nil	
Number of APs that must relocate	Nil	
Total land area to be acquired	Temporary: 0	Permanent : 0
Agricultural land area to be acquired (ha)	Temporary: Nil	Permanent : Nil
Forestry land area to be acquired (ha)	Temporary-Nil	Permanent :Nil
Garden land to be acquired (ha)	Temporary-Nil	Permanent :Nil
Aqua-cultural land to be acquired (ha)	Temporary-Nil	Permanent :Nil
Residential land & Garden land to be acquired (ha)	Temporary-Nil	Permanent : Nil
Other land to be acquired (ha)		Permanent: Nil
SUBPROJECT COST		
Total subproject cost (VND and \$USD)	42,343,404,000 VND; 1,825,146 USD (at USD= 23,200 VND)	

³ This data is obtained from Resettlement Plan

Figure 1: Map of the subproject location



Figure 2: Map of the proposed canal of Tam Giang Dam



3. DESCRIPTION OF EXISTING ENVIRONMENT

Table 2. Environmental baseline

DATA ITEM	SUBPROJECT DATA
PROJECT LOCATION	
Commune(s):	▪ An Thach, An Ninh Dong, An Ninh Tay Communes of Tuy An District
District:	Tuy An District
Province:	Phu Yen Province
Geographic location:	The subproject located in three communes : An Thach, An Ninh Tay , An Ninh Dong of Tuy An District -Phu Yen Province, the North 30 km to Tuy Hoa City. The start point of the canal K0+00 is bounded by Cay Keo- An Ninh Dong road , about 30 m to Tam Giang Weir in An Thach commune, the end point at Km 5+800 is bounded by PR 649 at Km 20+050 in An Ninh Dong commune
NATURAL ENVIRONMENT CONDITIONS	
Air quality	The subproject is located in rural area nearby without any industrial zones or manufacturing factories or on-going construction works in long time; Main activities of the community in the subproject area are aquaculture and agricultural production. In dry season, dust is generated from passing vehicles. (Along PR 649 and inter-district/inter-commune road).Therefore, there is no air pollution within the sub-project areas.
Noise and vibration	The sub-project is rural area with low traffic density and limit industrial/mining activities, therefore noise and vibration levels mainly impacted by traffic activity but quite low Therefore, the ambient air is still not polluted by noise and vibration yet
Climate and natural disasters	The subproject is located in a tropical monsoon area with two seasons: the dry season begins from January to August, rainfall accounts only 20÷30%. And the rainy season begins from September to December, rainfall accounts for 70÷80%. Drought often occurs from April to August when surface water flow of Cai river is low, affecting agricultural activities and the daily life of residents in the subproject area. Floods in the rainy season are typical of areas with sloping terrain and short river lengths. Early floods occur from May and June while the main flood is from September to December.
Topography and soils	<i>Topography</i> The subproject area is mainly plain areas. The topography is leaned from West to East, normally flooded in rainy season and droughted in dry season. In general, the surveyed area has topography favorable for constructing the work in dry season. <i>Soil</i> Soil is divided into 02 different layers: the first layer: livid, brown grey, white grey clay, plastic state ; the second layer : sand mixed dust, livid color, poor light composition

DATA ITEM	SUBPROJECT DATA
Water bodies	<p>Tam Giang Weir is built on downstream of Ky Lo river and its irrigation canal system taken water from Ky Lo river through Tam Giang weir and irrigated by gravity</p> <p>Ky Lo river is second largest river in Phu Yen Province, originated in La Hien mountain with elevation of above 1000 m, where the border of Binh Dinh and Gia Lai. length of 120 km. The river run to South – East through Dong Xuan, Tuy An District, then discharge to the sea at Tien Chau estuary in Tuy An District -Phu Yen Province, it's another distributary discharge in O Loan Lagoon</p> <p>In general, rivers characteristic in Phu Yen Province are short, high slope ($>2\%$), downstream of rivers are affected by tide and salt water intrusion</p> <p><i>Ky Lo river's hydrological characteristic :</i></p> <p>Catchment area: 1,968 km², average basin slope : 1%</p> <p>Total yearly water volume distributed unevenly through the year, total water generated in 4 months from September to December of flood season contributes 70-80% of the total annual water flow. In dry season, which lasts 8 months from January to August, the water flow provided is only 20-30%)</p>
Groundwater	<p>Groundwater level is at the depth of 2 to 7m by deep wells observation. Changes of groundwater level depend on the season as 5 to 7 m in depth in dry season but about 2m from soil surface in rainy season.</p> <p>Currently, groundwater is mainly used for domestic water and daily living demand but it has not been used for production activities.</p>
Water quality	<p>Although the data for surface water quality is not available, through the site observation, the surface water is mostly used for irrigation with good quality visibly, however, the water quality change significant according to season. In rainy season, water quality affected by water discharge and polluted by sediment.</p>
Flooding	<p>Flooding often occurs twice a year (mainly flood from September to December). Water logging normally occurs in low areas during flood season</p>
Terrestrial flora and fauna	<p><i>Terrestrial flora:</i> mainly rice field and fruits and vegetables gardens in residential areas; Along the canal bank, mainly industrial trees: acacia, bushes ...but no valuable and rare trees are available in this area.</p> <p><i>Terrestrial fauna:</i></p> <ul style="list-style-type: none"> - Wild animals live on field, including some reptile kinds (python, snake), small beasts like rats, etc.. - Domestic animals like buffalo, cow, pig, chicken, ducks, etc many types of freshwater fish, etc; <p>Terrestrial flora and fauna in subproject area are not listed in Vietnam's Red Data Book.</p>
Aquatic flora and fauna	<p>Aquatic product include freshwater fish in canal and ponds .;</p> <p>Aquatic flora and fauna in subproject area are not listed in Vietnam's Red Data Book.</p>

DATA ITEM	SUBPROJECT DATA																																													
Protected areas	There is no protected area in the subproject area O Loan Lagoon – a national beauty spot according to Decision No 2410/QD-VH issued on Sep 27, 1996 by Minister of Tourist, Culture and Sport about 3 km to the subproject area																																													
SOCIAL ECONOMIC CONDITIONS																																														
UXO	Canal have been constructed based on the existing route, currently there is no possibility of UXO																																													
Land use	Most of land areas serves for agriculture, forestry, aquiculture purposes According to status on land used in An Thach, An Ninh Dong, An Ninh Tay , agricultural and forest land occupy 63% of total land area The details of land use in communes of sub-project are in following table: <table><tr><th rowspan="2">No.</th><th rowspan="2">Type of land</th><th rowspan="2">Unit</th><th colspan="3">Commune</th></tr><tr><th>An Thach Commune</th><th>An Ninh Dong</th><th>An Ninh Tay</th></tr><tr><td>1</td><td>Agricultural land</td><td>ha</td><td>778.47</td><td>992.28</td><td>631.23</td></tr><tr><td>2</td><td>Forest land</td><td>ha</td><td>68.31</td><td>250.66</td><td>10.22</td></tr><tr><td>3</td><td>Aquaculture land</td><td>ha</td><td>0.33</td><td>110.16</td><td>41.78</td></tr><tr><td>4</td><td>Non agricultural land</td><td>ha</td><td>174.98</td><td>607.55</td><td>187.93</td></tr><tr><td>5</td><td>Unused land</td><td>ha</td><td>86.35</td><td>368.95</td><td>28.08</td></tr><tr><td></td><td>The total area</td><td>ha</td><td>1108.44</td><td>2329.6</td><td>899.24</td></tr></table>	No.	Type of land	Unit	Commune			An Thach Commune	An Ninh Dong	An Ninh Tay	1	Agricultural land	ha	778.47	992.28	631.23	2	Forest land	ha	68.31	250.66	10.22	3	Aquaculture land	ha	0.33	110.16	41.78	4	Non agricultural land	ha	174.98	607.55	187.93	5	Unused land	ha	86.35	368.95	28.08		The total area	ha	1108.44	2329.6	899.24
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5	Unused land	ha	86.35	368.95	28.08																																									
	The total area	ha	1108.44	2329.6	899.24																																									
Nearest residential land	Upgrading canal goes through residential land of An Thach, An Ninh Dong, An Ninh Tay commune. Nearest distance is about 40-50 meters.																																													
Rural infrastructure	- Education: The subproject communes have intensively invested facilities and equipment for teaching and learning activities. There are kindergarten schools, 3 primary and 3 secondary schools in the area. - Power: For all communes under the subproject, national electricity grid is available. - Domestic water : Local people use domestic water from both water tap and drilled well in the area. . These infrastructures are not located near the canal, so that activities during construction period have no impact on existing infrastructure except for taking advantage of rural road to transfer material.																																													
Agriculture and aquaculture	+ Agriculture: - Crop: There are three rice crops including Winter Spring, Spring Autumn and summer crop. In addition, there are also some other different crops including corn, sugarcane, vegetables, green bean, peanut, soybean and etc. - Livestock: Include cow, pig, horse, chicken, duck and etc																																													

Initial Environmental Examination (IEE)*Upgrading Irrigation Canals of Tam Giang Irrigation System subproject, Phu Yen province**Integrated Rural Development Sector Project in Central Provinces-Additional Financing*

DATA ITEM	SUBPROJECT DATA
	+ <i>Aquaculture</i> : Fish raising following garden-pond-cage model
Population of beneficiary area	Total population of the subproject area in 2018 is 38,374 ; of which 49.5% of male, 50.5% of female (Source: from Statistic Book 2018 of An Thach, An ninh Dong, An Ninh Tay Commune), in which : An Thach commune : Number of HHs : 1,853; Population : 6,440 An Ninh Dong commune : Number of HHs : 4,392; Population : 17,000 An Ninh Tay commune : Number of HHs : 4,440; Population : 14,934
Ethnic minorities	No ethnic groups are living in the subproject area.
Livelihoods	<ul style="list-style-type: none"> ▪ According to annual statistic in 2018 of An Thach, An Ninh Dong, An Ninh Tay Commune, currently average poor rate is about 7.71-9.62%, in which: 9.62 % for An Thach, 9.21% for An Ninh Dong, 7.71% for An Ninh Tay ▪ About 80-85% population in subproject earn living from agriculture production, average income is about 8-10 millions of VND/ person/per year ▪ In addition to agriculture production, local people earns living from husbandry, such as pig, cow, buffalo chicken and duck... and tradition trade such as clothing, carpentry, rice paper, rice vermicelli, processed seafood such as dried fish, dried squid and etc.
Physical and cultural heritage	No physical and cultural heritages are locating within subproject area
Public health	<p>The Subproject communes having a medical station are 100% and there are 3 commune medical stations in the whole subproject area. In general, the quality of medical examination and treatment, also of medical equipment and material facilities is improved</p> <p>Due to sanitation condition, it was observed that diarrhea, dengue fever, dysentery, sore eyes, sore throat, bronchitis and etc occurred in the area.</p>

4. ENVIRONMENTAL IMPACT SCREENING

Table 3. Environmental impact screening

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Pre-Construction Stage Impacts					
Disturbance of UXO	No				The canal is upgraded from existing alignment. The subproject is located in rural area, consisting of agricultural cultivation area, existing residential area. Thus, there is no possible of UXO
Impacts on households from loss of residential or agricultural land	Yes	Minor	Negative	Permanent	There is no household requiring relocation in the subproject. Canal embankment road and canals will be constructed on existing ones without extension. Thus site clearance is not implemented (Source: Statistics on affected land from preliminary survey of Phu Yen PPMU, Subproject Investment Report)
Construction Stage Impacts					
Erosion or sedimentation caused by during clearing or earthworks	Yes	Minor	Negative	Temporary	Description: The constructions activities, especially excavation, embankment and storing materials in upgraded canals, and upgraded road could create debris and/or cause materials falling into water sources. Soil erosion and landslide could cause increasing in sediments and turbidity of surface water as well as obstructing water flows. The consequence could cause negative impacts on the rice fields located near by the construction sites in An Thach, An Ninh Dong, An Ninh Tay communes . The highest risks location of landslide and soil erosion could be listed as below:

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<ul style="list-style-type: none"> Soil erosion caused by the excavation of canal bed and slopes along upgraded canals and upgraded road. Landslides at 02 borrow pit in An Ninh Dong & An Ninh Tay Commune <p>Affected object(s):</p> <ul style="list-style-type: none"> Water quality of Kỳ Lộ River, and other small streams. Fields/crops irrigated by canals of the subproject; Cultivated areas, which located close to the 02 borrow pit.(An Ninh Dong & An Ninh Tay Commune) Beneficiaries on the closed proposed canals and canal embankment roads areas. <p>Affected level: This impact is moderate due to (i) the material sources are mainly taken from agreed borrow pits of An Ninh Dong & An Ninh Tay commune; (ii) volumes of excavation and embankment are not much (total excavated soil: 11,423 m³; total embanked soil: 14,503 m³); (iii) the excavated soil will be reused to fill up banks of upgraded KC4 canal and canal roads in An Thach, An Ninh Dong & An Ninh Tay communes and ; (iv) excavation activities will be mainly taken during dry season and (v) borrow pit is located in the vacant land. However, this impact still needs to be managed and controlled to reduce surface water pollution.</p> <p>Location: canal slope and road within the subproject area in An Thach, An Ninh Dong & An Ninh Tay communes .</p> <p>Time: This impact is temporary during the constructing phase.</p>
Polluted soil due to leakage of oil and	Yes	Minor	Negative	Temporary	<p>Description: In the process of pumping for dry foundation holes for the canal construction and other works on the canal, oil and grease leakage</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
other chemical substances.					<p>will generate water pollution.</p> <p>Affected object(s): Surface water sources including Kỳ Lộ river, and other small streams as well as ditches, irrigation canals within the subproject area.</p> <p>Affected level: Machine oil and grease pollution on the canal and facilities is small as: (i) construction activities are mainly manual, small number of construction machines (see project description); (ii) construction activities are scattered on a 4,747m of KC4 canal ; thus, the oil and grease emitted is insignificant;</p> <p>Location: at the subsection of canal under construction along the KC4 canal (4,747m of KC4 canal to be upgraded)</p> <p>Time: This impact is temporary during the construction period.</p>
Generate a big quantity of dredged soil which can be reused	Yes	Minor	Positive	Temporary	<p>Excavated soil: 11,423 m³</p> <p>Filling soil : 14,503 m³</p> <p>About 80% of excavated soil of all types : 9,122 m³ can be reused for re-filling embankment and management road</p> <p>Discarded soil quantity: 2,300 m³ (20% of excavated soil)</p> <p>Discarded soil will be dumped at Lò Dầu village-An Ninh Tay commune and Phú Hội village -An Ninh Dong commune about 3-4 km to the site .</p> <p>Thus, most of excavated soil which can be reused and will not impact on environment.</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Impacts from temporary storage site for construction materials, including: dust, noise.	Yes	Minor	Negative	Temporary	<p>Description: Stone, sand will be located near the construction sites where uncultivated land to minimize affecting on living residents;</p> <p>Other items (steel, cement) will be stored at commune PCs, other public buildings or in rented houses. Upload and unload and transport construction materials will generate noise and dust which affects local people and local water quality (An Thach, An Ninh Dong & An Ninh Tay communes).</p> <p>Total quantity of materials needed for construction is estimated as:</p> <p>Steels: 2,385 kg</p> <p>Macadam : 2,894 kg</p> <p>Formwork : 27,700 m²</p> <p>Bitumen paper : 24,636 m²</p> <p>Affected objects: Local people living near temporary storage sites and material transportation routes.</p> <p>Affected level: Small; Level of these impacts is minor because: (i) the temporary material store is mobile; (ii) there is only small households along the construction routes ; (iii) contractor will apply minimize methods to reduce noise, dust, therefore may be minimize impact on local people;</p> <p>Location: Residential areas near temporary storage sites and material transportation routes</p> <p>Time of impact: This impact is temporary during the construction period.</p>

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IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Pollution of waterways, aquatic environments or underground water from wastes, chemicals or waste water	Yes	Minor	Negative	Temporary	<p>Description: In the process of pumping out water to dry foundation holes for the canal construction and other works on the canal, oil and grease leakage will generate water pollution.</p> <p>Affected objects:</p> <ul style="list-style-type: none"> - Water quality of the subproject canals - Local aquatic environments <p>Affected level: Small</p> <p>The affected level is insignificant because (i) The number of construction machines is small; (ii) the construction is scattered over long of the canals, therefore the concentration of the uncontrolled waste, oil and grease leakage is not remarkable; (iii) discarded soil is reused and under the management of contractors. The level of turbid water caused by sand and soil depends on the layout and control of excavated soil and temporary disposal sites of excavated soil;</p> <p>Location: along 4,747m of KC4 canal to be upgraded</p> <p>Time of impact: This impact is temporary during the construction period</p>
Making sensitive flora disappeared and deteriorated	No				The construction sites are in existing agricultural lands
Dust and exhaust fume from construction	Yes	Minor	Negative	Temporary	<p>Description: Dust is mainly generated from excavating the proposed canals, filling the banks of the canals and transporting materials. Gaseous emissions will also be generated from other construction equipment such</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
equipment and machinery					<p>as excavators, concrete mixing machines that could cause health problems to nearby local people.</p> <p>Affected objects:</p> <ul style="list-style-type: none"> - The subproject workers - Local people in the subproject area. <p>Affected level: Minor level ; Construction activities on canal do not cause dust or exhaust, because (i) the quality of machine has been registered, controlled and maintained periodically, (ii) Dust and noise is mainly from transportation process of construction material. (iii) There are only small numbers of households living along construction routes .</p> <p>Location: along the transportation roads and construction sites in An Thach, An Ninh Dong & An Ninh Tay communes .</p> <p>Time of impact: This impact is temporary during the construction period</p>
Noise and vibration from construction equipment	Yes	Minor	Negative	Temporary	<p>Description: Construction activities such as clearance, excavation of foundation; 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 workers and the activity of local people</p> <p>Affected objects:</p> <ul style="list-style-type: none"> - The subproject workers - Local people in the subproject area. : An Thach, An Ninh Dong & An Ninh Tay communes . <p>Affected level: Affected level is minor due to (i) The number of construction machine is not many (04 bulldozers; 02 excavators; 02</p>

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	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>compactors;; 12 dump trucks, 05 concrete mixing machines) and distributes over 5.8 km length; (ii) There are only small residential areas living sparsely along construction routes.</p> <p><u>Time of impact:</u> This impact is temporary during the construction period</p>
Increase flooding time and area	Yes	Negative	Minor	Temporary	<p><u>Description:</u> The banks of the proposed canals will be built in a level which is higher than natural ground level. This may affect drainage in the area near the construction sites, so the time and area of flooding will able to increase.</p> <p><u>Affected objects:</u></p> <ul style="list-style-type: none"> - Drainage system nearby the construction sites - Local people living near the construction sites <p><u>Affected level:</u> Small</p> <p>The affected level is minor because in the construction sites along the proposed KC4 main canals that there are some existing canals to drainage storm water. Moreover, contractors will build temporary drainage ditches in the constructions area to minimize flood.</p> <p><u>Location:</u> low area along the proposed KC4 canal routes in An Thach, An Ninh Dong & An Ninh Tay communes .</p> <p><u>Time of impact:</u> This impact is temporary during the construction period</p>

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IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Effects on infrastructure works like communication cables and drainage system, etc.	No				KC4 main canals of Tam Giang Irrigation System will be constructed following the existing route and will not affect the infrastructure works; However, canal construction through cultivation areas may have effects on rice productivity of farmers living in the Subproject Communes ;
Employment or livelihood benefits from employment of local people	Yes	Moderate	Positive	Temporary	Local labors have professional skills and simple labor will be employed for construction; their livelihood/living standard will be remarkably improved thanks to extra works Location: project area and adjacent areas in 3 Subproject Communes in An Thach, An Ninh Dong & An Ninh Tay communes . Time of impact: This impact is temporary during the construction period
Social disturbance by worker gathering	Yes	Minor	Negative	Temporary	Description: Construction workers can cause social aspect such as gambling, drug addiction, prostitute, violence, conflict amongst workers, or between workers with local people. Workers have to get temporary residence certificate to avoid social disruption in the subproject area. Affected objects: Workers and local people in the subproject area. Affected level: Small Impacts are at insignificant levels because the construction activities of workers can be controlled by working regulation in the construction site and construction duration is not long (about 6 months expected); Time of impact: This impact is temporary during the construction period

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Risks to public or construction worker health or safety	Yes	Moderate	Negative	Temporary	<p>Description: Dust and noise generated from construction activities, transport vehicles and operation of equipment (such as concrete mixers, bulldozers) may cause directly affect health of the workers and the local communities, especially in case of safety regulations not being properly complied with.</p> <p>The high risks of health problem and safety for workers may also come from unsafe living conditions, unsafe food and water supply and inappropriate personal protection equipment and conflict between workers and traffic accidents involving people passing through construction places.</p> <p>Moreover, construction activities may need to occupy road surface could lead to unsafety for local people who use the roads. The construction of road connecting production area may also cause temporary blocking access of local people.</p> <p>Affected object(s):</p> <ul style="list-style-type: none"> - Workers at construction sites. - Residential areas along upgrade roads and roads used for transport of materials and near the construction areas of in An Thach, An Ninh Dong & An Ninh Tay communes. <p>Affected level: This impact is at moderate level due to (i) number of construction workers (60 at maximum) as well as machine or equipment being mobilized on the sites is not significant,(ii) Travel demand on road along the canal is not high;(iii) material transport will be carried out in day time to avoid the rest time of residents . However, because the importance of preserving human health and lives of locals and construction workers, adequate management measures need to be implemented and supervised as regulated by legal requirements for labor safety and hygiene.</p> <p>Location:</p>

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IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<ul style="list-style-type: none"> - 03 worker camps and residential area closed to An Thach, An Ninh Dong & An Ninh Tay communes. - Residential areas along the transport roads as PR 649 and commune roads in An Thach, An Ninh Dong & An Ninh Tay <p><u>Time of impact</u> This impact is temporary during construction period</p>
Effects on nearby heritage items such as graves, pagodas etc.	No				No heritage items such as graves, pagodas, etc. will be near subproject.
Risks of natural calamity	Yes	Minor	Negative	Temporary	<p><u>Description:</u> In subproject may be happen flood and storm (there are 3 – 4 floods & storms /year), most in October and November, Storm and flood often causes flooding</p> <p><u>Affected objects:</u></p> <ul style="list-style-type: none"> - Local people in the subproject area - The subproject canals <p><u>Affected level:</u> Small. Natural calamity will have serious affects on resident life as well as economic growth in the region. However, directly impacts on canal are minor because its position in paddy field, not directly suffered from river. However, directly impacts on canals are minor because their positions are in paddy field, not directly suffered from river or dynamic flow damage</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Location: Along a 4,747 m of KC4 main canal to be upgraded.</p> <p>Time of impact: This impact is temporary during the construction period</p>
Solid waste generated from construction activities or camp	Yes	Minor	Negative	Temporary	<p>Descriptions: Solid waste that will be generated from construction mainly includes domestic waste of workers and scraps of transported soil and stone, debris, mud. If these wastes will not be properly managed this could cause impact on water and soil quality.</p> <p>Affected level: Small as Number of worker is not big, total about 75 workers averagelly , construction activities mainly include excavating 4.747 km of the proposed canals; therefore, generation of construction wastes are not so much about 383 m³/month (construction waste) and 1,125 kg/ month (domestic waste)</p> <p>Location: Worker Camp and construction site.</p> <p>Time of impact This impact is temporary during construction period</p>
Affect irrigation water supply system for agriculture production	Yes	Minor	Negative	Temporary	<p>Description: Construction of KC4 main canals requires dry construction area, meaning of stop water flow in the existing canal. There will be a conflict between water demand for agriculture and construction demand during cultivation period and construction time; Therefore, during construction, the irrigation functions could be temporarily affected which could have potential impacts on crops if mitigation measures are not implemented properly.</p> <p>Affected object(s):</p> <ul style="list-style-type: none"> - Crops irrigated by KC4 main canal of Tam Giang irrigation system within the subproject area; - Local people in the beneficiary areas in An Thach, An Ninh Dong, An

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Ninh Tay communes</p> <p>Affected level: The impact is minor due to (i) the construction will be implemented in shutting the water off period section by section to ensure irrigation water supply for cultivation activities; (ii) the total affected period on irrigation system about 6 months expected</p> <p>Time of impact : during construction time, 90 days estimated</p>
Impacts in operation stage					
Vegetables and trees areas will be flooded due to water filling/ storing and operation of irrigation canal	No				<p>i) Completion of 4,747m of KC4 main canals and auxiliary works in canal will ensure the irrigation capacity of 800 ha for two crops in the subproject communes in An Thach, An Ninh Dong & An Ninh Tay Commune of Tuy An District , Phu Yen Province</p> <p>ii) Regulation works in the KC4 canal have adjusting valves to control the water level;</p> <p>Therefore, there will be no risk of flooding situation on cultivation areas.</p>
Excessive exploitation of surface water and groundwater will make water supply capacity cannot catch up with demands and/or cause conflicts among households	No				<p>i) Reasonably exploit water source following approved design assignments (irrigation capacity has not reached the maximum rate as designed capacity (800 ha);</p> <p>ii) Further increase the water supply capacity to meet demands of water users, especially land area which has not been supplied with water for a long time from the project site;</p> <p>iii) Accordingly, conflicts among households will be remarkably reduced;</p>

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	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Water quality is changed due to salinity intrusion, aluminiferous water or sedimentation	No				i) The area is not affected by seawater or tide, so it is not affected by salinity intrusion or aluminiferous; ii) Sediment of the canal bed is dredged and the canal is upgraded by concrete instead of the earthen canal, so that the water quality will not be polluted by sediment.
Water is exploited at sensitive ecological places/or reservation areas	No				i) There is no sensitive ecological areas or protection areas in the subproject area; ii) Water source for irrigation is taken from Kỳ Lộ river by Tam Giang Weir to serve a purpose of agricultural water supply
Changing living conditions and/or public health thanks to improved water supply	Yes	Significant	Positive	Permanent	<u>Location:</u> beneficiary area <u>Scope:</u> Living conditions and standard is improved thanks to providing of enough water for intensive cultivation demands in agriculture
Productivity is improved by increase of irrigation capacity	Yes	Significant	Positive	Permanent	<u>Location:</u> beneficiary area in 3 subproject communes of Tuy An District <u>Scope:</u> the cultivation area is increase, water supply is initiative; productivity and output are increased;
Cultivation habits will be changed due to the turning of land use for agriculture purposes	Yes	Significant	Positive	Permanent	<u>Location:</u> beneficiary area in 3 subproject communes of Tuy An District <u>Scope:</u> agriculture area is increased (mainly annual trees need to be irrigated with water) thanks to supplying sufficient water, land structure will be changed following extensive cultivation, cultivation productivity

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					increase; accordingly changing the agriculture using customs;
Leaching nutrition from soil or salinity of soils due to excessive irrigation (not following irrigation regimes and specifications);	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 irrigation canal is complete, the regulating system will be facilitated and more flexible, hence, the land will not lose nutrients due to excessive irrigation;</p> <p>Affected object(s):</p> <ul style="list-style-type: none"> - Soil quality of cultivated land - Local people in the beneficiary areas in An Thach, An Ninh Dong, An Ninh Tay communes <p>Affected level: is small due to application of advanced technology in agriculture;</p> <p>Location: beneficiary area in 3 subproject communes of Tuy An District</p> <p>Time of impact: This impact is long-term in operational phase.</p>
Soil erosion or scouring of streams or canals	No				The canal is reinforced by concrete so that soil erosion and land slide will not occur;
Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical	Yes	Minor	Negative	Permanent	<p>Description: The increasing irrigation capacity from upgraded canals will boost production. However, the use of fertilizers and/or pesticides will potentially normally increase. This will have an impact on both surface and ground water in the sub-project area as well as in the water of</p>

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IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCOPE
	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
substances or waste water					<p>downstream areas.</p> <p>Affected object(s): Water quality of canals within the sub-project area & water bodies closed to the cultivated area irrigated by the canals.</p> <p>Affected level: The impact is minor because an increase of fertilizers and pesticides is relatively low; moreover, it is also expected that the increasing trend of using environmental-friendly products will prevail in the coming future & farmer will be trained & applied IPM method</p> <p>Location: KC4 Irrigation canals of and: 800 ha for two crops of beneficiary areas in An Thach, An Ninh Dong & An Ninh Tay .</p> <p>Time of impact : This impact is long-term in operational phase.</p>
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, weed growing on the branch canal can reduce water transmission capacity of the main canal;</p> <p>Affected objects:</p> <ul style="list-style-type: none"> - The subproject canals - Local people in beneficiary area <p>Affected level: This impact is minor due to maintenance activities include culverts dredging that will be implemented by Dong Cam One Member Limited Liability Company</p> <p>Location: Along the proposed canals.</p> <p>Time of impact : This impact is long-term in operational phase.</p>

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	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Risks caused by natural calamity	Yes	Minor	Negative	Permanent	Natural calamity will have serious affects on resident life as well as economic growth in the region. However, directly impacts on canal is minor because its position in paddy field, not directly suffered from river or dynamic flow damage
Changing the service approaching ability of local residents thanks to building approaching road for the work	Yes	Significant	Positive	Permanent	Embankment road along the upgraded KC4 main canal in connection with existing traffic road network will increase the approaching ability of local residents to services from markets, areas for commodity and agriculture product exchange.
Affects employment on and livelihood	Yes	Significant	Positive	Permanent	Employment and jobs will be diversified thanks to the increase of project effectiveness;
Impacts on ethnic minorities	No	No	No	No	No ethnic minority living within project area;
Encroachment land in canal side	Yes	Minor	Negative	Permanent	Description: Encroachment of land for agricultural activities or for personal purpose in the right of way (ROW) of the canals are remain. Occupying land for planting perennial trees are violate regulations of the Ministry of Agriculture and Rural Development on protecion corridor

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	YES / NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>canals and makes difficulties in implementing compensation and project execution during upgrading of the work;</p> <p><u>Affected objects:</u></p> <ul style="list-style-type: none"> - Subproject canals - Local people in beneficiary area <p><u>Affected level:</u> Small because of Regulations of the Agriculture and Rural Development on protection corridor canals were issued to deal with this issue.</p> <p><u>Location:</u> the right of way (ROW) of the corridors of canals of the sub-project in An Dinh, An Nghiep and Xuan Son Nam communes.</p> <p><u>Time of impact :</u> This impact is long-term in operational phase</p>

5. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

5.1 Environmental Mitigation Plan

Table 4. Environmental mitigation plan

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
Pre-Construction			
Effects on households from loss of residential or agricultural land	Implement mitigation measures outlined in the subproject Land Donation	PPMU	Included in resettlement report
Construction stage			
Erosion or sedimentation caused by during clearing or earthworks	<ul style="list-style-type: none"> Install sediment dyke and/or sediment traps around the temporary excavated material area to collect sediment before it enters waterways. Construct temporary drainage canal for reducing affects on residential area; Minimize area of land clearance and duration of works within this area; Undertake progressive re -vegetation of land clearance areas Avoid clearing activities during the rainy season where possible 	Contractor	Included in the Contract with the Contractor
Polluted soil due to leakage of oil and other chemical substances	<ul style="list-style-type: none"> Store chemicals (lubricating oil, etc.) in safe area with impermeable containment and weatherproof roof; Use mobile sanitary toilets following regulations of Health Ministry and washing facilities at construction camps Regularly collecting waste land to avoid sedimentation, as muddy water of the subproject area and Kỳ Lộ river Prohibited use of hazardous materials near water sources Hazardous materials spilling out unexpectedly to be cleaned, reported and monitored 	Contractor	Included in the Contract with the Contractor
Impacts from temporary storage site for construction	<ul style="list-style-type: none"> Provide public information for local people on construction conditions; Minimize clearance and cut off crop and tree to reduce dust and noise at 	Contractor	Without marginal cost

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
materials, including: dust, noise.	temporary material store <ul style="list-style-type: none"> For affected crop and tree, Contractor should have proper plan, thus, local people may harvest before construction start. Ensure that all machines are in good operation condition. 		
Pollution of waterways, aquatic environment or groundwater due to rubbish, chemical substance or polluted soil	<ul style="list-style-type: none"> Store chemicals (lubricating oil, etc.) in safe area with impermeable containment and weatherproof roof; Use mobile sanitary toilets following regulations of Health Ministry and washing facilities at construction camps Do not wash construction vehicles and equipment onsite to avoid pollution by lubricating oil from washing. Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on wastewater and hazardous wastes; Regularly collect and dispose-off the wastes 	Contractor	Mentioned in contract with Contractor
Dust and exhaust fume from construction equipment and machinery	<ul style="list-style-type: none"> Successive construction method should be used by contractor. Therefore impact arising can be reduced by this method will makes the tidy construction, minimize construction time. Cover all trucks carrying materials to or from the site; Ensure all construction vehicles and equipment is well-maintained. 	Contractor	Included in the Contract with the Contractor
Noise from construction machine	<ul style="list-style-type: none"> Ensure all construction vehicles and equipment are well maintained; Limit construction activities which can make noise in day time; Inform local communities of schedule and duration of construction works; Receive opinions and feedbacks from the community. 	Contractor Contractor/ Local assistance group Commune PC Construction monitoring consultant	Included in the Contract with the Contractor Local budget for community monitoring activities
Increasing the flooding area and time	<ul style="list-style-type: none"> Cleaning the construction site timely before rainy season to prevent soil and solid waste blocking water flow. 	Contractor	Included in the contract with

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
	<ul style="list-style-type: none"> Building temporary drainage ditches in the construction sites; 		contractors
Effects on social aspect due to workers at site	<ul style="list-style-type: none"> Consult local authorized staff to prepare house renting plan for workers at the same local area; Consult local staff to consider the ability of renting house for workers instead of building camps; In case of camps at site, it is necessary to ensure that camps are maintained in good conditions; Provide training to workers on the way of communicating with local community, abiding laws and traditional customs and culture in the local area and implement education programs on sanitation/hygienic means and diseases through contact; Implement communication of prevention of HIV/AIDS and sexually transmitted diseases and dissemination on social evils like drugs, gambling, prostitution, violence, stealing, etc. Delivery condoms to workers 	<p>Contractor</p> <p>PCs at all level, bureau of social evil prevention,</p> <p>Center of HIV/AIDS prevention and Center of Contingency Medical/Committee of HIV/AIDS prevention at commune/ward levels and at other levels/ NGO</p>	<p>Included in the Contract with the Contractor</p> <p>Relevant programs under local budget such as HIV/AIDS and social evils prevention</p>
Risks to public or construction worker health or safety	<ul style="list-style-type: none"> Provide safety equipment to workers like mufflers, gloves, safety belt and train them in its use. Functional agencies always check and supervise works on 	Contractor	Included in the Contract with the

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
	labor safety of workers at site and residents within the construction area; <ul style="list-style-type: none"> Regularly implement working inspection to ensure working safety in the construction area; Secure construction site and restrict access by local community by arranging warning signs and fencing wall; Inform residents about possible incidents or risks during construction by louder speakers. 	Contractor Construction monitoring consultant	Contractor
Risks of 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; Phu Yen Irrigation Management Company closely coordinate with Disaster Mitigation & Flooding Prevention Committee in the local area to timely find out assistance methods such as: fight with flooding, storm ect. 	Designing Consultant , Dong Cam One Member Limited Liability Company, Provincial Natural Calamity & Flooding Prevention Committee	Without marginal cost
Solid waste generated from construction activities or camp	<ul style="list-style-type: none"> Establish temporary latrines which meet regulations of Health Ministry and supply enough water to camp. Discussing with local people and Government to choose the suitable waste dumping site when workers build camps; Collect solid wastes and temporary store at a safety place before transporting to disposal sites; 	Contractor	Without marginal cost
Affect irrigation water supply system for agriculture production	<ul style="list-style-type: none"> Construction of primary canal should be implemented in dry season with application of construction and irrigation at same time. The Contractor should coordinate with irrigation authority (irrigation exploitation management enterprise), commune's irrigation staff and cultivation households in water supply area of subproject KC4 main canal and its branch canal to reach agreement on water supply time (when construction suspension), construction time (should be implemented at the time when irrigation activities are not done); 	PPMU/ Contractor; Dong Cam One Member Limited Liability Company, commune authorities and local residents in the tree	Included in the Contract with the Contractor

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
	<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; Phu Yen 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 Construction time should be the same time that Dong Cam Irrigation System stop water supply for major repairs or after harvesting Summer-Autumn Crop & before starting Winter-Spring Crop, construction time is proposed: from 15 April to 15 May, then from the end August to 15 September) To implement stop of water supply alternatively, e. g water supply for 10 days, construction for 15 days. 	communes in the subproject area in An Thach, An Ninh Dong, An Ninh Tay commune , Tuy An District	
Operation stage			
Leaching nutritive substances or salinity of soil disappeared due to excessive irrigation	Coordinate with agriculture authority to ensure that farmers are trained on proper irrigation method;	Agricultural extension center of the province	Local 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; Solid waste from pesticide, insecticide as well as other substance such as herbicide should be stored in tanks at cultivation area before transport to disposal sites; Coordinate with Agriculture Extension Centre to ensure that farmers are trained on Integrated Pesticide Management (IPM). 	Phu Yen DARD	Local budget
Congested irrigation canal causes flooding	<ul style="list-style-type: none"> Ensure that canal is regularly inspected and maintained. Ensure weed and other floating waste are periodically cleaned along the canal; 	Dong Cam One Member Limited Liability Company,	Local budget
Risks of 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. 	Phu Yen PPMU	Local budget

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POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	COST
	<ul style="list-style-type: none"> Reservoir management unit must closely coordinate with Natural Calamity & Flooding Prevention Committee in the local area to timely find out assistance methods. 		
Increase solid waste in productive area	<ul style="list-style-type: none"> Periodically collect waste in canal ; Establish rubbish collecting system; Enhance farmers' awareness about managing and collecting rubbish in field and canal through training. 	Dong Cam One Member Limited Liability Company,	Local budget
Encroachment land in canal side	Implement management method, ensure that canal bank and canal protection corridor are not occupied (using for growing or other occupying activities)	Commune authority, Irrigation Management Company of Tuy An District and Dong Cam Province	Local budget

5.2 Environmental Monitoring Plan

5.2.1 Environmental effects monitoring

1. 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, from the KC4 main canal in An Thach, An Ninh Dong & An Ninh Tay Commune - Tuy An District	Observation and community consultation	Weekly or when community's feedback is raised	Contractor	See the budget for EMP
				Once/ 3 months during construction or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Budget of Phu Yen 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 locations to Noise Monitoring	Observation and community consultation	Weekly or when community's feedback is raised	contractor	See the budget for EMP
				Once/ 3 months during construction or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Budget of Phu Yen PPMU

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
				is raised		
				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 surface water quality	Sedimentation, rubbish, lubricating oil and solid waste	At Downstream of upgraded canal section, near the construction site of upgraded KC4 main canal Total monitoring points: 5 points along 4,747 m of KC4 main canal	Observation and community consultation	Once/ 3 months during construction or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	See the budget for EMP
				Based on requirement of water supply	Local people, Community monitoring committee Local irrigation staff (commune)	Local 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
Control of irrigation capability	Meet irrigation demands following the agreed irrigation schedule	At division gates from the main canal	Consider harvest time and discuss with local residents within subproject area	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
				Following regional cropping	Local residents, Community	Local budget

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
				water demand	Monitoring Board Irrigation official in local area (commune)	Without marginal cost
Labor safety and community safety	Number, use of labor equipment; signal system Obey for traffic law of transportation mean of construction material	In construction area On road where carry material along residential areas of 11 subproject communes;	Observation and community consultation	Weekly or when community's feedback is raised	Local people, Community monitoring committee	Without marginal cost
				Once every 3 months during construction or in case of essential time	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Budget of Phu Yen 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
Operation stage						
Using irrigation water	Conflicts during water source access as mentioned in report	At division gate for cultivation areas of commune; Cultivation area supplied /irrigated by upgraded canals :	Observation and community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability Company ; irrigation official of commune, households	Included in operation cost
Surface water quality	Turbidity, presence of grease; BOD, DO, pH, TSS, Total coliform;	Location: At 3 points : starting, middle & ending points of KC4 canal	Observation and community consultation or sampling analysis if needed;	Twice a year in two first years of operation (1 time in rainy season and 1 time in dry	Dong Cam One Member Limited Liability Company ; irrigation	Included in operation cost

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	fecal coliform, turbidity		receiving feedback from communities	season)	official of commune, households	
Waste management	Conditions on environmental sanitation within project area; temporary waste storage yard	Throughout subproject area	Observation and community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability Company; irrigation official of commune, households	Included in operation cost
Periodical canal maintenance	Level of canal sedimentation and conditions of sluices, and works on the main canal	Along KC 14 Canal	Field survey, community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability Company; irrigation official of commune, households ;	Included in operation cost Local budget
Re-occupation of canal corridor	Occupation area, type of occupation (for planting trees or other purposes)	Along KC 14 main canal	Field survey, community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability Company; irrigation official of commune, households	Included in operation cost Local budget

5.2.2 Environmental Compliance Monitoring

2. 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
Construction Stage						
Control of soil erosion and sedimentation	Ensure that soil erosion and sedimentation will not occur in construction site	Throughout the construction site	Observation and community consultation	Weekly and after heavy rain events	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Without marginal cost 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
Storage of materials	Condition of materials storage areas	Throughout the construction site	Observation and community consultation	Weekly	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Without marginal cost 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

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Construction equipment and vehicles	Noise and exhaust generation; covering of trucks; oil/fuel leakage	Throughout construction site	Observation and community consultation	Weekly	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Without marginal cost 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
Construction camp conditions	Cleaning waste treatment; general conditions	At all camps	Observation and community consultation	Weekly	Construction Management-and-Environmental Management Consultant	Without marginal cost
				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
Property access	Rehabilitate the possibility of temporary and fixed access	Affected assets: roads in commune and affected assets during construction	Observation and community consultation	Once during construction works and once after finishing construction	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Included in the Contract Local budget
				Once every 6 months during construction	Monitoring consultant on environmental safeguard	Included in separated contract

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Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
				or in case of at any time if necessary	policies/LIC	with CPMU
Waste treatment	Environmental sanitation at construction site and temporary waste storage area	Throughout construction site	Observation and community consultation	Weekly	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Without marginal cost 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
Areas of standing water	Pond or standing water	Throughout construction site	Observation and community consultation	Weekly during rainy season	Construction Management-and-Environmental Management Consultant Local Community Monitoring Boards	Without marginal cost 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
Operation stage						
Using irrigation water	Using matter	Households near canals	Observation and community consultation	Once every 6 months in first 5 years of operation	Dong Cam One Member Limited Liability Company;	Budget provided following regulations

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
						at Decree No.115
Prevention of soil erosion and land slide in canal	Conditions of canal bank	At some representative locations in subproject area	Observation and community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability Company;	Budget provided following regulations at Decree No.115
Waste management	Conditions on environmental sanitation within project area; temporary waste storage yard	Throughout subproject area	Observation and community consultation	Once every 6 months in first 2 years of operation	Dong Cam One Member Limited Liability 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	Provide advice to PPMU Safeguards Officer on IEE/EPP preparation Review and provide “no-objection” on IEE/EPP submitted by PPMU	Provide advice to PPMU Safeguards Officer on EMP implementation during construction Monitor progress during construction Consolidate PPMU environmental reporting	Provide advice to PPMU Safeguards Officer on EMP implementation during first year of operation Monitor progress during first year of operation Consolidate the 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	Monitoring implementation of EMP through their own internal monitoring system	Monitoring implementation of EMP through their own internal monitoring system

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Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
	subproject preparation		
PPMU	Engage consultant and have overall responsibility for IEE/EPP preparation and submission for approval Ensure staff are adequately trained in environmental issues	Responsibility for EMP implementation during pre-construction and construction Ensure that contract specifications and bid documents include environmental requirements Undertake inspections and monitoring of environmental issues during construction Coordinate environmental monitoring reporting to CPMU	Responsibility for EMP implementation during first year of operation Undertake inspections and monitoring of environmental issues during first year of operation Assist project owners to incorporate environmental requirements into infrastructure O&M procedures
District PCs	Approval of subproject EPP 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
Environmental Monitoring Consultant under LIC team	Preparation of IEE	Implement independent environmental monitoring at subproject area twice every 1 month. Monitoring results will be included in the report which will be sent to CPMU once a month.	n/a
District Subproject Support Teams (SST)	Assist in IEE/EPP 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 community environmental monitoring activities	Undertake environmental monitoring and coordination of local community environmental monitoring activities for first year of operation
Commune Supervision Boards (CSBs) and local	Involvement in consultation and participation activities to identify and develop subprojects Ability to comment on	Involvement in environmental monitoring activities under the direction of SSTs	Involvement in environmental monitoring activities under the direction of SSTs

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
community members ⁴	environmental assessment documentation upon disclosure		
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

5.4 Monitoring and Reporting System

Table 8. Monitoring and Reporting System

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom
Construction	EMP of subproject	Once/ (first month since construction beginning	Construction contractor	PPMU/CPMU
	EMP implementation report of subproject according to report sample approved by ADB	Monthly	CSC (to hold Environmental Supervision Consultant)	CPMU
	EMP implementation report of province (syntheses of construction package) according to report sample approved by ADB	Quarterly	PPMU	CPMU

⁴ 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.

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom
	EMP Compliance Report indicating compliance with subproject EMP and monitoring results	Once/ 6 month	CPMU/LIC	ADB//DONRE
	EMP completion report of each package/ subproject according to report sample approved by ADB	At completion of subproject	CSC (to hold Environmental Supervision Consultant)	CPMU
	Subproject completion Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of subproject	PPMU	CPMU
	Project completion Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of The whole Subproject	CPMU/LIC	ADB/DONRE
Operation	EMP Compliance Report: Operation indicating compliance with subproject EMP commitments during operation	6 monthly for first two years of operation. Ongoing frequency to be determined based on review after 2 years.	Dong Cam One Member Limited Liability Company;	ADB, DONRE, MONRE

5.5 EMP Budget

Table 9. EMP Budget

Item	Preparation phase	Construction phase	Operation phase
Construction supervision consultant		Included in the contract with Phu Yen PPMU	
Internal monitoring of Phu	Included in the project management cost of	Include in the contract of CC, CSC and Phu Yen PPMU	Phu Yen Province

Yen PPMU	Phu Yen PPMU	management cost.	and local budget
Implementing mitigation measures	The Subproject preparation cost	Included in the construction contracts	Operation and maintenance cost
Monitoring EMP implementation (undertaken by LIC)		Included in the contract between CPMU & LIC	
Public consultation and information disclosure	Included in the IEE preparation consultant contract	Include in the contract of civil works, CSC and Phu Yen PPMU management cost.	Operation and maintenance cost

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	20 / 3/2019
	Dates of meetings (if requested)	25& 26/3 /2019
	Minutes of meeting attached (Yes / No)	Yes
Public meetings	Date(s) held	25 -26 /03/2019
	Location(s) held	PC's meeting hall of An Thach, An Ninh Dong, An Ninh Tay Communes of Tuy An District
	Invitees	Commune PCs, stakeholders, village heads, Young Communist League, Fatherland front, Farmer Association, Women Union of the communes.
	Methods of invitation	Letter, coordinate with Women Union to mobilize women's participation in meetings
	Agenda attached (Yes / No)	Yes
	Minutes of meeting attached (Yes / No)	Yes
	Number of participants	Total have 124 people Man: 51 people Women: 73 people (the list of participants will be closed in the minutes of consultation)

6.2 Outcomes of Public Consultation to Date

Opinions of participants

- The representatives of the HHs agree with the proposal of the upgrading irrigation canal of Tam Giang irrigation system . It is expected that the project to be implemented soon so that people can take the initiative to use the irrigation water, avoid loss of water due to degraded canal and improve the irrigation system's services
- Material transportation truck should be covered by canvas so that the material shall not be scattered on the road;
- The construction site is far from residential area; hence, it only slightly affects the households;
- As heavy trucks often damage the road, local people asked contractor shall be responsible to restore the road to its original state;
- There should be sign post informing the upcoming construction sites to local people, especially for children going to school;
- CPC and CSB are responsible to supervise the construction
- The contractors are requested to have measures to mitigate dust and ensure travel safety for people during the construction.

6.3 Future Public Consultation Activities

Table 11. Proposed community consultation activities

Activity	Participants	Expected Outcomes	Schedule	Cost Estimate
Kick-off meeting prior to construction commencement	PPMU, the Contractor, CSC, 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, CSC 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 three month from construction commencement	Included in contract signed with parties

7. GRIEVANCE REDRESS MECHANISM

1. During the implementation of the subproject, local people are informed of environmental protection activities described in EMP. Negative impacts on the environment may occur during the construction and operational phases. Any comments/ grievances of local people will be solved quickly, transparently and in compliance of laws, particularly for affected people by the sub-project. Grievance redress mechanism will be classified by level and responsibilities of involved parties.

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

- Stage 1: If a household has any grievance, he/she can submit it to the CPC-community monitoring board. CPC will work with CSC and CC to solve it.
- Stage 2: If the grievance is not redressed, it will be submitted to the District Division of Natural Resources and Environment to redress. DPC will work with PPMU to solve it.
- Stage 3: If more than 15 days pass without response from the DPC, the complainant may submit a grievance to the Ninh Thuan PPC (through Ninh Thuan DONRE). Ninh Thuan PPC will require DPC to solve it. In case the grievance is still not redressed, Ninh Thuan PPC will require environmental police to investigate and requested stakeholders to solve it. See the mechanism in figure below:

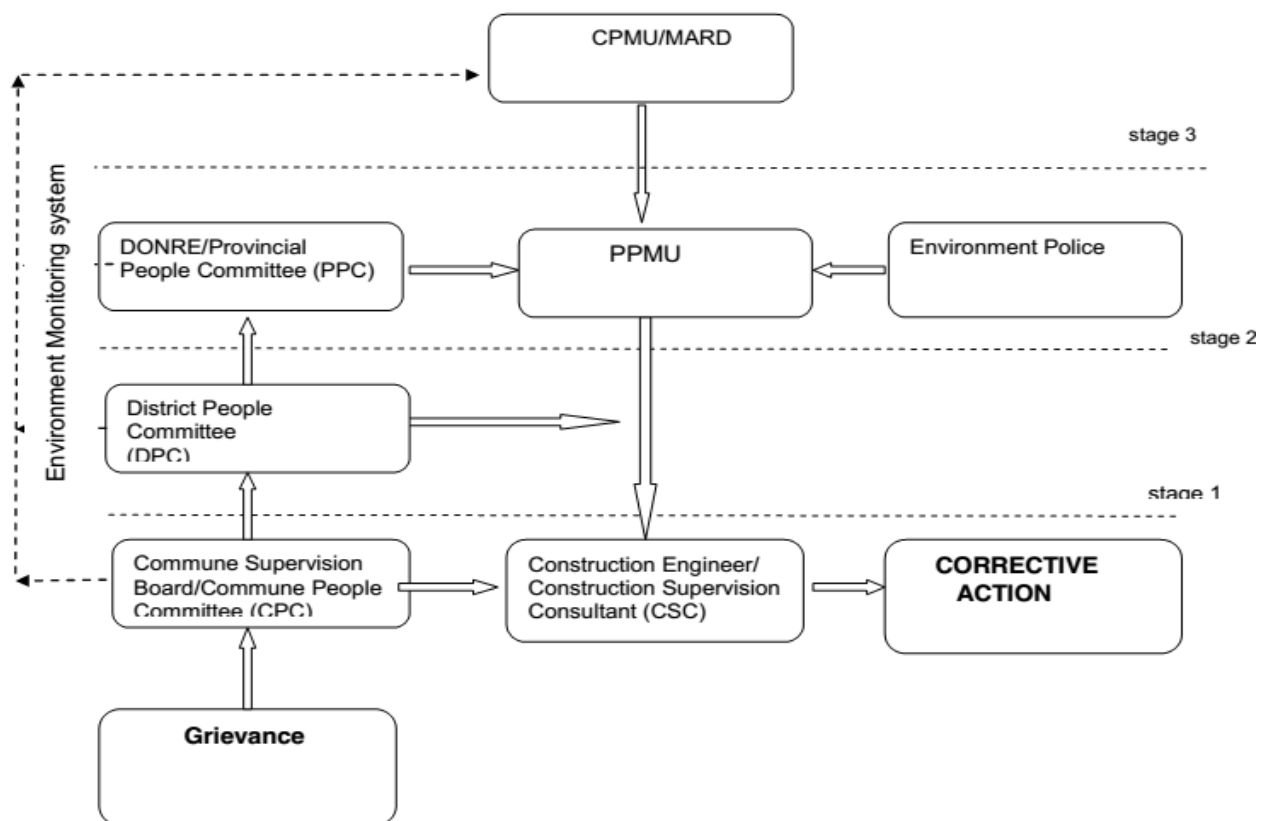


Figure 1: Grievance redresses mechanism

8. CONCLUSION AND RECOMMENDATIONS

1. The Upgrading KC4 Main Canals of Tam Giang Irrigation System subproject, part of the IDRSPCP – Additional Financing Project will be implemented by Phu Yen PPMU province.
2. Project environmental assessment implemented and main potential environmental impacts of subproject in construction stage
 - (i) Dust and exhaust emission from construction equipment and machinery, material transport and material mixing. Pollution mainly occurred along transport route and at the construction site; it is necessary to have mitigation measures for negative impacts;
 - (ii) Noise pollution due to construction, motorbikes and material transport means;
 - (iii) Solid waste and liquid waste pollution from excavation, material mixing, residue of gasoline and lubricating oil from tents;
 - (iv) Conflicts between agriculture water supply for irrigation area and water supply stop
 - (v) Traffic disturb when transporting material and constructing the management /production road/canal embankment

Main potential environmental impacts in operation stage

- (i) Agriculture wastes (residue of vegetables, pesticide cover, straw of cultivation area) from the boundaries of the upgraded KC4 main canal have been focus at the canal bed, obstructing and polluting canal water ;
- (ii) Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water
- (iii) Risks of natural calamity due to Storm & flood occur during rainy season

Mitigation measures and construction monitoring for subproject, including the following main activities

Mitigation measures for negative impacts caused by project execution include the following:

- (i) Reduce soil erosion, sediment, land slide due to excavation, it is necessary to restore the vegetation covers, implement site clearance like planting grass, trees for shadow,
- (ii) Minimize soil/water pollution, exhaust pollution, rubbish, and chemical substances during construction by methods like using equipment and vehicles in good conditions; erecting tents and latrines for workers in conformity with standard; implement cleaning and dredging at polluted areas, excavate to create holes for burying rubbish. If necessary, community at downstream should be informed about water quality changes,

- (iii) Dust, noise from construction equipment and vehicles: reduce the time and construction area/ transport vehicles, construction materials must be covered by canvas; limit the noise from construction equipment at rush hours, at nights/ labour safety devices for workers,
- (iv) 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,
- (v) 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
- (vi) Avoid deteriorating soil/water quality by increasing quantity of fertilizer and pesticide Phu Yen PPMU should coordinate with Agriculture Extension Centre to ensure that farmers are trained on Integrated Pesticide Management (IPM)
- (vii) Phu Yen PPMU should ensure that subproject design will meet all safety standards on prevention of flooding, storms and other potential natural calamity

Monitoring measures

- (i) Contractor shall have methods and commitment on implementation of mitigation measures in aspects of both implementation location/mitigation measures/and frequency of implementation. Concurrently, the Contractor shall prepare detailed plan on environmental monitoring and mobilize enough manpower to meet general requirements and compulsory regulations on EMP.
- (ii) During operation stage, Project Owner (Dong Cam One Member Limited Liability Company) should implement periodical management on water quality following current standards of Vietnam.

Conclusion and recommendations

- a) Investment and construction of Consolidation of 4.747 km length of the KC4 main canal of Tam Giang Weir's irrigation canal system and upgrading 5.800 km canal embankment roads is to promote the irrigation effectiveness of Tam Giang Weir, improve living standard and eliminate poverty for 3 subproject communes in Tuy An District in beneficiary areas with population of 38,374 peoples . Reducing natural calamity is an essential and urgent matter which helps bring significant economic effect and contribute to state-oriented agricultural and rural development.
- b) The results of environmental study present that negative impacts during project implementation could minimize through environmental management measures including monitoring programs. Negative impacts related to subproject activities is mainly from construction process and these are temporary impacts.

- c) Based on IEE, Consultants in F/S stage, Phu Yen PPMU would like to request functional Authority to give approval of IEE for Consolidation of 4.747 km length of the KC4 main canal of and upgrading 5,800 km canal embankment roads of of Tam Giang Weir 's irrigation canal system to create basis for next implementation steps, ensuring the implementation progress, effectiveness and benefits of the project./.

9. ANNEXES

- Current status of irrigation system
- Public consultation activities
- Minutes of agreed borrow pit and disposal site and material transportation road
-

Annex 1: Current status of irrigation system



Existing status of Tam Giang Weir (still good work quality- no need to upgrade)



Intake of KC4 main (still good work quality- no need to upgrade)



Erosion and landslide of KC4 main canal

Annex 2. Public consultation activities

Public consultation contents

1. Participants: Safeguard policies consultants, local leaders (communal levels), affected households and other local people living near project area;

2. Objectives: Project disclosure and public consultation on potential environmental impacts and proper mitigation measures during project's implementation;

3. Meeting content

3.1. Safeguard policies consultants introduced on basic information on project, construction items and their parameters;

3.2. Main environmental impacts and their mitigation measures were defined as by safeguard policies consultants, including:

- + Environmental impacts, social impacts before construction, consist of popular impacts such as land occupy, plants and tree removal, UXO area determination and their mitigation measures;

- + Environmental impacts during construction implementation such as dust, noise, safety for transportation as well as safety for local people on traffic roads, other impacts on agricultural activities; water, soil pollution, etc. and their mitigation measures;

3.3. Collecting contribution from local people on other potential environmental impacts before construction implementation, during construction stage and on operation, maintenance stages;

3.4. Safeguard policies consultants introduced in general on Environmental System Management in Viet Nam that may be applied in this subproject such as responsibilities of DONRE, DARD, DPC, CPC, Construction Management Consultants, Contractors and especially local Community Environmental Management Board;

The details will be described in meeting minutes as written following. People's contribution on environmental impacts and mitigation measures were presented in detail at "Table 11. Public consultation results".

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at An Thach, An Ninh Tay and An Ninh Dong PPCs

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

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

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP
CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG
BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG
Về CSAT: Môi trường, Tái định cư, Giới và DTTS

Tên DATP: Nâng cấp kênh tưới nước cho từng Tuyến sông Tam Giang
Xã An Ninh Đông huyện Tuy An tỉnh Phu Yên

Chức vụ: Chủ tịch UBND xã An Ninh Đông
Chức vụ: Chủ tịch UBND xã
Chức vụ: Chủ tịch UBND xã

Ông/Bà Nguyễn Kim Phụng Chức vụ Chủ tịch UBND xã An Ninh Đông
Ông/Bà Nguyễn Văn Tuấn Chức vụ Chủ tịch UBND xã
Ông/Bà Le Thị Hồng Nhung Chức vụ Chủ tịch UBND xã

Ông/Bà Chức vụ
Ông/Bà Chức vụ
Ông/Bà Chức vụ
Ông/Bà Chức vụ

Đại diện những hộ bị ảnh hưởng: người.

(Xem danh sách đại biểu tham dự đính kèm)

II. Nội dung

2.1 Các nội dung phổ biến thông tin:

- Phổ biến thiết kế của dự án: các thông tin chung về dự án như mục tiêu, địa điểm, phạm vi xây dựng...
- Phổ biến thông tin về phạm vi ảnh hưởng, Khu vực Tái định cư và phát triển DTTS, chính sách an toàn Môi trường và kế hoạch hành động Giới.
- Phổ biến tiến độ thực hiện, quy trình khiếu nại, giám sát, đánh giá.
- Phát tờ rơi thông tin dự án.

2.2 Tham vấn cộng đồng:

- Tham vấn về 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 tái định cư, môi trường, các vấn đề về giới và lồng ghép giới, các tác động dự kiến, các biện pháp giảm thiểu tối đa các tác động tiêu cực đến người bị ảnh hưởng.
- Tham vấn về giá thay thế, chính sách đền bù và quyền được đền bù, hỗ trợ của người bị ảnh hưởng; nhu cầu hỗ trợ và các biện pháp phục hồi cuộc sống phù hợp cho người bị ảnh hưởng;

1

III. Ý kiến thảo luận

Ông Nguyễn Kim Long Tôi đã được dự nhiều bữa tiệc và
đã được biết rõ về UBND xã về việc làm đất và khai hoang
đất để dự án được thực hiện nhanh chóng.

- Nhất là cao với việc thực hiện Dự án. Sửa chữa và nâng cấp hệ thống kênh cửa đập Tam Giang.
- Vật liệu xây dựng phải đi ga-găng, tránh ảnh hưởng đến việc đi lại của bà con.
- Nhà thầu cần thực hiện đúng quy định nhưng ngay khi khởi công.
- Không phục lại những diện tích ruộng chỉ với việc vùi lấp. Phải bị lấp lấp. Sau khi hoàn thành công việc.
- An ninh nước tưới trong quá trình thi công.

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

Cuộc họp tham vấn kết thúc vào lúc 16^{h30} ngày 23 tháng 3 năm 2019

Đại diện Ban QLDA tỉnh

Đại diện Cộng đồng

Ngô Kim Long

Đại diện UBND xã

CHỨC VỤ

Đại diện tư vấn
Lê Đức Mạnh Phương

Đur an Phat liên nông t
(Th
(Danh sách định

(Tham vấn công đồng về Về CSAT: Môi trường, Tái định cư, Giới và DTTS)

(Danh sách đính kèm biên bản cuộc họp ngày 25 tháng 3 Năm 2019 tại xã An Ninh Tây.....)

Xã An Ninh Đông, huyện Tuyên Sơn, tỉnh Bắc Yên

STT	Họ và tên	Giới tính	Chức vụ/Địa chỉ	Ký tên
1	Nguyễn Kim Hoàn	Nam	Chủ tịch UBND xã	
2	Nguyễn Văn Tài	Nam	Chủ tịch địa chính	
3	Lê Thị Hồng Nhân	Nữ	CT HCHĐN	
4	Trần Văn Hùng	Nam	Thôn Hào	
5	Phạm Văn Kém	Nam	Thôn 5	
6	Ngô Kim Long	Nam	Phủ Hới	
7	Đỗ Trí Anh	Nam	Phủ Hới	
8	Trần Thị Quý	Nữ	Phủ Hới	
9	Võ Thị Hồng	Nữ	phủ Hới	
10	Nguyễn Văn Hùng	Nam	phủ Hới	
11	Nguyễn Kim Môn	Nam	CT HCHĐN	
12	Đường Thị Nhung	Nữ	Thôn phủ Hào	
13	Nguyễn Ngọc Cu	Nam	Thôn phủ Hới	
14	Nguyễn Tâm	Nam	Thôn Phủ Hới	
15	Bùi Thị Băng	Nữ	Thôn Phủ Hới	
16	Phạm Đức Thọ	Nam	Thôn Phủ Hới	
17	Nguyễn Thị Băng	Nữ	Thôn Phủ Hới	
18	Trần Văn Sơn	Nam	Thôn Phủ Hới	
19	Trần Văn Hoàng	Nam	Thôn Phủ Hới	
20	Nguyễn Ngọc	Nam	Thôn Phủ Hới	
21	Đặng Thị Hoàng Hoa	Nữ	Thôn phủ Hào	
22	Nguyễn K. Xuân	Nam	Thôn phủ Hới	
23	Nguyễn Văn Long	Nam	Thôn phủ Hới	
24	Võ Ngọc Long	Nam	Thôn Phủ Hới	
25	Nguyễn Thị Sương	Nữ	Thôn Phủ Hới	
26	Cao Thị Môn	Nữ	Thôn Phủ Hới	

Dự án Phát triển nông
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(Danh sách đ

(Tham vấn cộng đồng về Vệ CSAT: Môi trường, Tái định cư, Giới và DTTS)

Danh sách đính kèm biên bản cuộc họp ngày 28 tháng 3 năm 2019 tại xã An Hưng Đông

Tên DATP: Nhà cấp Kêne tòn Thườ' Hô' Hông' thuy' rông Trun Giang
Xã An Ninh Đông huyện Thuy Kho' tỉnh Phu Yên

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HỘI LHPN XÃ AN NINH ĐÔNG
BAN THƯỜNG VỤ

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc
An Ninh Đông, ngày 25 tháng 3 năm 2019

DANH SÁCH
HỘI VIÊN THAM GIA THAM VẤN CỘNG ĐỒNG DỰ ÁN NÂNG CẤP KÊNH
TUỚI THUỘC HỆ THỐNG THỦY NÔNG TAM GIANG

TT	Họ và tên	Địa chỉ thôn	Chức vụ
1	Phạm Thị Nga	Phú Hội	Chi hội trưởng
2	Nguyễn Thị Tâm	Phú Hội	Chi hội phó
3	Võ Thị Kim Hòa	Phú Hội	Hội viên
4	Nguyễn Thị Hạnh	Phú Hội	Hội viên
5	Nguyễn Thị Tám	Phú Hội	Hội viên
6	Trần Thị Ty	Phú Hội	Hội viên
7	Trịnh Thị Bích Thủy	Phú Hạnh	Phó chủ tịch Hội LHPN xã
8	Trần Thị Quý	Phú Hạnh	Chi hội trưởng
9	Trần Thị Thu	Phú Hạnh	Chi hội phó
10	Dương Thị Hoàng Hoa	Phú Hạnh	Hội viên

TM. BTV HỘI LHPN XÃ
CHỦ TỊCH



[Signature]
Lê Thị Hồng Nhạn

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

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

Về CSAT: Môi trường, Tái định cư, Giới và DTTS

An Thau, ngày 28 tháng 3 năm 2019

Tên DATP: Nâng cấp kênh tưới thuộc dự án Tam Giang

Xã: An Thau, huyện Tuy An, tỉnh Phú Yên

I. Thành phần tham dự:

Ông/Bà: Lê Anh Nhật	Chức vụ: Chủ tịch UBND xã An Thau
Ông/Bà: Hồ Ngọc Hương	Chức vụ: Phó Chủ tịch UBND xã
Ông/Bà: Lê Thị Anh Nhu	Chức vụ: Chủ tịch HĐQT Phụ nữ xã
Ông/Bà: Lê Văn Long	Chức vụ: Chủ tịch NHTDVA
Ông/Bà: Nguyễn Văn Thau	Chức vụ: Chủ tịch Hội cựu chiến binh
Ông/Bà:	Chức vụ:
Ông/Bà:	Chức vụ:

Đại diện những hộ bị ảnh hưởng: người.

(Xem danh sách đại biểu tham dự đính kèm)

II. Nội dung

2.1 Các nội dung phổ biến thông tin:

- Phổ biến thiết kế của dự án: các thông tin chung về dự án như mục tiêu, địa điểm, phạm vi xây dựng ..
- Phổ biến thông tin về phạm vi ảnh hưởng, Khung Tái định cư và phát triển DTTS, chính sách an toàn Môi trường và kế hoạch hành động Giới.
- Phổ biến tiến độ thực hiện, quy trình khiếu nại, giám sát, đánh giá.
- Phát tờ rơi thông tin dự án.

2.2 Tham vấn cộng đồng:

- Tham vấn về 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 tái định cư, môi trường, các vấn đề về giới và lồng ghép giới, các tác động dự kiến, các biện pháp giảm thiểu tối đa các tác động tiêu cực đến người bị ảnh hưởng.
- Tham vấn về giá thay thế, chính sách đền bù và quyền được đền bù, hỗ trợ của người bị ảnh hưởng; nhu cầu hỗ trợ và các biện pháp phục hồi cuộc sống phù hợp cho người bị ảnh hưởng;

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

III. Ý kiến thảo luận

Ông:

Bà con đồng ý hiến đất để làm dự án.

Bà con yên lòng: Nhà thầu đất xây cho bà con và những người khác không quên yêu cầu Địch Chuyển về tận nhà.

Về vấn đề mô hình: xe chở vật liệu phải đi chung không riêng để cắt ra đường.

- Công nhân ở xa đến cho nên ứng dụng được đến dân xe tải chở vật liệu nặng, còn đường bị hư hỏng vậy ai sẽ chịu trách nhiệm sửa chữa đường dọc đường.
- Vấn đề an toàn giao thông; nhất là địa điểm ở bên em đi lại về công thức phải có biển báo.

- Hợp tác nhân dân xã, Ban quản hạt công đồng và người dân có thể nhận quản sát.

- Nhà thầu phải báo cáo dân phố phố công đồng thông qua huyện đến việc sửa chữa các dân.

Xe chở vật liệu phải phải bắt đi công bố.

- Đường sẽ được che chắn nếu hết hàng phải báo phục vụ hoặc mang bán đất.

- Phải báo nước cho bà con trong quá trình thi công.

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung


Ủy ban trả lời của PPMU: Ông Thống - Cao

Chủ Nhiệm: Có thể thi công và cấp nước để phục vụ sản xuất
cho nhân dân

Cuộc họp tham vấn kết thúc vào lúc ngày tháng năm 2019

Đại diện Ban QLDA tỉnh

Đại diện Cộng đồng


Trần Thị Long



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(Tham vấn cộng đồng về Vẽ CSAT, Môi trường, Tái định cư, Giới và DTTS)

(Danh sách đính kèm biên bản cuộc họp ngày 25 tháng 3. Năm 2019 tại xã An Thạnh.....)

Tên DATP: Nông cấp học tiểu học hệ thống Trung học Trung ương tam Giác
Xã An Thái huyện Tây An tỉnh Phước Yên

STT	Họ và tên	Giới tính	Chức vụ/Địa chỉ	Ký tên
28	Phạm Hữu Bình	Nam	Phó CT HĐND xã	Phạm Hữu Bình
29	Đường Văn Hải	Nam	CT, Hội đồng dân	Đường Văn Hải
30	Lê Anh Nhật	Nam	CT UBND xã	Lê Anh Nhật
31	Nguyễn Ngọc Tú	Nam	Bí thư Đoàn	Nguyễn Ngọc Tú
32	Ngô Thảo Nguyên	Nữ	VHTT	Ngô Thảo Nguyên
33	Nguyễn Thị Hồng Ngọc	Nữ	Văn thư	Nguyễn Thị Hồng Ngọc

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

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DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về Vẽ CSAT: Môi trường, Tái định cư, Giới và DTTS)

(Danh sách đính kèm biên bản cuộc họp ngày 25 tháng 3. Năm 2019 tại xã An Thạnh)

Tên DATP: Nâng cấp kênh tưới nước hệ thống thủy lợi Tam Giang
 Xã: An Thạnh huyện Tuy An tỉnh Phú Yên

STT	Họ và tên	Giới tính	Chức vụ/Địa chỉ	Ký tên
1	Lê Anh Nhật	Nam	Chủ tịch UBND xã	Nam
2	Hồ Ngọc Hưởng	Nam	Phó chủ tịch UBND xã	Hưởng
3	Nguyễn Ngọc Dany	Nam	Chủ tịch đoàn chức xã	Dany
4	Hồ Xuân Hiền	Nam	CB. H. xã	Huân
5	Phạm Xuân Nhàn	Nam	Phản ứng Hội ND xã	Nhàn
6	Lê Văn Long	Nam	CT ANTT & Vp Nam	Long
7	Phạm Thị Hằng	Nữ	CB DS KH. xã	Hằng
8	Nguyễn Văn Thanh	Nam	Chủ tịch hội cựu chiến binh	Thanh
9	Đoàn Thị Anh Nhi	Nữ	Chủ tịch PN xã An Thạnh	Anh Nhi
10	Đoàn Thị Thu Hà	Nữ	Phó thôn Phó Thụ	Thu Hà
11	Nguyễn Văn Hùng	Nam	Thôn T. xã	Hùng
12	Nguyễn Minh Đạt	Nam	Thôn T. xã	Đạt
13	Võ Văn Nhân	Nam	Thôn T. xã	Nhân
14	Bà Xuân Dương	Nam	Hội T. xã	Dương
15	Phạm Thị Hằng	Nam	Hội T. xã	Hằng
16	Đoàn Văn Dân	Nam	H. T. xã	Dân
17	Nguyễn Văn Long	Nam	Ph. xã	Long
18	Nguyễn Văn Hùng	Nam	H. T. xã	Hùng
19	Trần Thị Ngọc Anh	Nữ	Nhà Thờ	Ngọc Anh
20	Trần Thị Long	Nữ	H. T. xã	Long
21	Trần Thị Đạt	Nữ	H. T. xã	Dạt
22	Nguyễn Thị Thu	Nữ	H. T. xã	Thu
23	Võ Thị Thanh Hoa	Nữ	V. T. xã	Thanh Hoa
24	Đoàn Thị Ngọc Thi	Nữ	CTXH	Ngọc Thi
25	Phạm Ngọc Anh Thi	Nam	H. T. xã	Anh Thi
26	Phạm Thị Linh Phương	Nữ	H. T. xã	Linh Phương

DANH SÁCH HỘI VIÊN THAM GIA THAM VẤN
CÔNG TRÌNH DỰ ÁN NÂNG CẤP KÊNH THIRR
THUỘC HỆ THỐNG THUỶ NÔNG TAM GIANG

STT	Họ và Tên	Địa chỉ	Chức vụ
1	Huỳnh Thị Lệ Cẩm	Hội Tín	Chi hội trưởng
2	Huỳnh Thị Xuân Chi	Hội Bùn	Hội viên
3	Nguyễn Thị Nhung	Phú Bình	Chi hội trưởng
4	Huỳnh Thị Dân	Quảng Đức	Chi hội trưởng
5	Cơân Thị Như Sơn	Hà Yên	Phó chủ tịch Hội PN
6	Nguyễn Thị Bích Thảo	Phú Bình	Hội viên
7	Phạm Thị Tài	Phú Bình	Chi hội trưởng
8	Phạm Thị Minh Hiệp	Phú Bình	Hội viên
9	Cơân Thị Thanh Sương	Hòa Hậu	Chi hội trưởng
10	Võ Thị Chung	Hội Bùn	Hội viên

An/Thạch, Ngày 25/03/2019

TM. HỘI HPNI XÃ

CHỦ TỊCH



Lê Thị Anh Nhi

DANH SÁCH HỘI VIÊN THAM GIA THAM VẤN
CÔNG TRÌNH DỰ ÁN NÂNG CẤP KÊNH THIRR
THUỘC HỆ THỐNG THỦY NÔNG TAM GIANG

STT	Họ và Tên	Địa chỉ	Chức vụ
1	Huỳnh Thị Lệ Cẩm	Hòa Tín	Chi hội trưởng
2	Huỳnh Thị Xuân Chi	Hòa Bình	Hội viên
3	Nguyễn Thị Nhung	Phước Bình	Chi hội trưởng
4	Huỳnh Thị Dân	Quảng Đức	Chi hội trưởng
5	Cơân Thị Như Sơn	Hà Yên	Phó chủ tịch Hội PN
6	Nguyễn Thị Bích Thảo	Phước Bình	Hội viên
7	Phạm Thị Tài	Phước Bình	Chi hội trưởng
8	Phạm Thị Minh Hiệp	Phước Bình	Hội viên
9	Cơân Thị Thanh Sương	Hòa Hậu	Chi hội trưởng
10	Võ Thị Chung	Hòa Bình	Hội viên

An Khê, Ngày 25/03/2019

TM. HỘI HPNI XÃ

CHỦ TỊCH



Lê Thị Anh Nhi

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

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

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG

Về CSAT: Môi trường, Tái định cư, Giới và DTTS

An Ninh Tây, ngày 26 tháng 3 năm 2019

Tên DATP: Nâng cấp kênh tưới nước cho vùng trồng cây ăn trái Tam Giang

Xã An Ninh Tây, huyện Tuy An, tỉnh Phú Yên

I. Thành phần tham dự:

- Ông/Bà. Lê Thanh Nam	Chức vụ. Chủ tịch Ủy ban Nhân dân xã
- Ông/Bà. Nguyễn Quốc Huy	Chức vụ. Cán bộ An ninh xã
- Ông/Bà. Phan Thị Thuần	Chức vụ. Chủ tịch Hội phụ nữ
- Ông/Bà. Nguyễn Thanh Ninh	Chức vụ. Phó bí thư Đảng ủy xã
- Ông/Bà. Lê Văn Hiên	Chức vụ. Chủ tịch Hội Cựu chiến binh
- Ông/Bà. Nguyễn Bảo Đức	Chức vụ. Bí thư Đoàn xã
- Ông/Bà.	Chức vụ.

Đại diện những hộ bị ảnh hưởng: người.

(Xem danh sách đại biểu tham dự đính kèm)

II. Nội dung

2.1 Các nội dung phổ biến thông tin:

- Phổ biến thiết kế của dự án: các thông tin chung về dự án như mục tiêu, địa điểm, phạm vi xây dựng...
- Phổ biến thông tin về phạm vi ảnh hưởng, Khung Tái định cư và phát triển DTTS, chính sách an toàn Môi trường và kế hoạch hành động Giới.
- Phổ biến tiến độ thực hiện, quy trình khiếu nại, giám sát, đánh giá.
- Phát tờ rơi thông tin dự án.

2.2 Tham vấn cộng đồng:

- Tham vấn về 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 tái định cư, môi trường, các vấn đề về giới và lồng ghép giới, các tác động dự kiến, các biện pháp giảm thiểu tối đa các tác động tiêu cực đến người bị ảnh hưởng.
- Tham vấn về giá thay thế, chính sách đền bù và quyền được đền bù, hỗ trợ của người bị ảnh hưởng; nhu cầu hỗ trợ và các biện pháp phục hồi cuộc sống phù hợp cho người bị ảnh hưởng.

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

III. Ý kiến thảo luận

Bà Phạm Thị Sáu: Gõ đầu tổ đồng ý hiến đất để xây dựng kênh. Tuy nhiên gõ đầu yêu cầu địa chủ xã làm công khai cho gõ đầu biết vì họ và họ dân tộc bị thua lỗ đi tất cả các thửa ruộng trong gõ đầu biết.

Ông Võ Văn Đạo: Chủ tịch tổ đồng ý hiến đất. Gõ đầu đã ký vào cam kết hiến đất rồi mong địa chủ xã thuận tiện.

Nhà dân cần cam kết chữ thực hiện là công tác phân đất của địa chủ xã chấp, không đi đất vào ruộng nhà dân.

Kế chi xã và phải phải bắt để chống lại yêu cầu các xã trên trường nguồn không là xã được đất chết và các thửa ruộng không được, bỏ đến mùa mùa lúa rất nhiều các thửa ruộng không là ruộng.

Nhà dân cần phải thực hiện theo luật pháp địa chủ xã đất không làm chủ ruộng ruộng địa chủ xã.

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

ý kiến và lời của Chủ tịch UBND xã:
Cá nhân được ủy quyền sẽ đưa UBND xã có hướng dẫn làm và đưa lên
tổng quát. Các quyết định rất hoàn chỉnh từ trên xuống dưới
để xây dựng công trình của người dân. Bên cạnh việc đưa sẽ đưa
quỹ lại các hộ để xây dựng từ từ và lấy. Trong hợp và hợp lý
để làm cho xã được về tiếp thu gửi lên và nên sẽ quyết định như
kết quả.
Chủ tịch và lý do ông ủy quyền huyện và yêu cầu các xã hướng
người có quy định đặt chủ trương đó các xã phải tuân thủ.

Cuộc họp tham vấn kết thúc vào lúc ngày tháng năm 2019

Đại diện Ban QLDA tỉnh



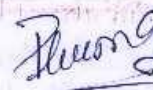
Đại diện Cộng đồng


Võ Văn Đào



Đại diện UBND xã


Huân Nam
Đại diện tư vấn


Thương

Dự án Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung

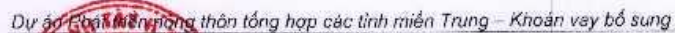
DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về Vẽ CSAT: Môi trường, Tái định cư, Giới và DTTS)

(Danh sách đính kèm biên bản cuộc họp ngày 26. tháng 3. Năm 2019 tại xã An Ninh Tây.)

Tên DATP: Nâng cấp kênh tưới tiêu thủy lợi huyện Tuy Đức, tỉnh Phú Yên
 Xã An Ninh Tây, huyện Tuy Đức, tỉnh Phú Yên

STT	Họ và tên	Giới tính	Chức vụ/Địa chỉ	Ký tên
1	Lê Thanh Nam	Nam	Chủ tịch UBND xã	[Signature]
2	Nguyễn Thanh Minh	Nam	Phó Bí thư Đảng ủy	[Signature]
3	Đinh Thị Thiên Thu	Nữ	Chủ tịch MTTCVN xã	[Signature]
4	Vũ Thị Bích Hòa	Nữ	Chủ tịch Hội Nông dân xã	[Signature]
5	Phạm Thị Thắm	Nữ	Chủ tịch Hội Phụ nữ xã	[Signature]
6	Lê Văn Hên	Nam	Chủ tịch Hội Cựu chiến binh	[Signature]
7	Nguyễn Bảo Đức	Nam	Bí thư Đoàn TN xã	[Signature]
8	Nguyễn Quốc Huy	Nam	Địch chính - Xây dựng	[Signature]
9	Phạm Thị Thanh Lam	Nữ	Thôn 4	[Signature]
10	Ngô Thị Thắm	Nữ	Thôn 4	[Signature]
11	Phạm Thị Sưu	Nữ	Thôn 3	[Signature]
12	Nguyễn Hoàng Cho	Nam	Thôn 3	[Signature]
13	Võ Ngọc Chi	Nam	Thôn 3	[Signature]
14	Phạm Thị Chiên	Nữ	Thôn 3	[Signature]
15	Nguyễn Phên	Nam	Thôn 3	[Signature]
16	Nguyễn Thị Sinh	Nữ	Thôn 3	[Signature]
17	Phạm Ngọc Anh	Nam	Thôn 3	[Signature]
18	Trần Cui	Nam	Thôn 3	[Signature]
19	Võ Ngọc Thanh	Nam	Thôn 3	[Signature]
20	Võ Văn Tấn	Nam	Thôn 3	[Signature]
21	Lê Thị Liên	Nữ	Thôn 3	[Signature]
22	Lê Thị Mỹ Lê	Nữ	Thôn 3	[Signature]
23	Trần Thị Thu Dung	Nữ	Thôn 1	[Signature]
24	Bùi Thị Bích Ngọc	Nữ	Thôn 4	[Signature]
25	Bùi Thị Như Thảo	Nữ	Thôn 2	[Signature]
26	Trần Thị Sưu	Nữ	Thôn 1	[Signature]



(Tham vấn cộng đồng về Vệ CSAT: Môi trường, Tái định cư, Giới và DTTS)

(Danh sách đính kèm biên bản cuộc họp ngày tháng.... Năm 2019 tại xã.....)

Xã....., huyện....., tỉnh.....

Time to: 33

$$N_{19} = 57.6\%$$

HỘI LHPN XÃ AN NINH TÂY CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
BAN THƯỜNG VỤ

Độc lập – Tự do – Hạnh phúc

An Ninh Tây, ngày 26 tháng 03 năm 2019

DANH SÁCH
HỘI VIÊN THAM GIA THAM VẤN CỘNG ĐỒNG DỰ ÁN NÂNG CẤP
KÊNH TƯỚI THUỘC HỆ THỐNG THỦY NÔNG TAM GIANG

STT	HỌ VÀ TÊN	CHỨC VỤ	ĐỊA CHỈ	GHI CHÚ
1	Phan Thị Thơm	CT. HPN xã	Xuân Phú	
2	Lê Thị Lèo	Phó CT. HPN xã	Diêm Điền	
3	Trần Thị Kim Chi	hội viên	Hội Phú	
4	Nguyễn Thị Hiền Liễu	hội viên	Diêm Điền	
5	Lê Thị Mỹ Lệ	hội viên	Diêm Điền	
6	Bùi Thị Bích Ngộ	Chi Hội trưởng	Xuân Phú	
7	Lê Thị Vẽ	hội viên	Tiên Châu	
8	Trần Thị Thu Dung	hội viên	Bình Thạnh	
9	Bùi Thị Như Hoa	hội viên	Tiên Châu	
10	Đỗ Thị Thanh Uyên	Chi Hội Trưởng	Tiên Châu	



Phan Thị Thơm

**Photos of public consultation meetings 25 – 26 March 2019 in An Thach,
An Ninh Dong and An Ninh Tay Communes**



**Public consultation meeting at An Thach
commune in March 2019**



**Public consultation meeting at An Ninh Dong
commune in March 2019**



**Meeting with chairman of An Ninh Tay PPC on
26 Mar 2019**



**Public consultation meeting at An Ninh Tay
commune in March 2019**

Annex 1: Minutes of agreed borrow pit and disposal site and material transportation road

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

GIẤY XÁC NHẬN

Kính gửi: UBND xã An Thạch, huyện Tuy An, tỉnh Phú Yên.

Dự án thành phần: Nâng cấp kênh tưới thuộc hệ thống thủy nông Tam Giang thuộc dự án: Phát triển nông thôn tổng hợp các tỉnh miền Trung – Khoản vay bổ sung tỉnh Phú Yên đang triển khai thực hiện. Qua công tác khảo sát, điều tra vật liệu và các công tác cần thiết khác tại địa phương phục vụ xây dựng công trình, đơn vị thiết kế đã xác định được như sau:

1. Các tuyến đường từ đường liên thôn vào công trình rất thuận tiện để vận chuyển vật tư vật liệu và các cấu kiện khác phục vụ xây dựng công trình.
Hiện trạng: Đường bê tông, đường đất. Thuộc xã Quản lý.
2. Bãi đất trống cách vị trí công trình khoảng 100m, nằm sát đường liên thôn, diện tích đảm bảo để đúc các cấu kiện bê tông và tập kết vật tư vật liệu cho quá trình thi công. Thuộc xã Quản lý.

Để có cơ sở tính toán kinh phí xây dựng công trình, đơn vị thiết kế đề nghị UBND xã xác nhận.

Tuy An, ngày tháng năm 2018

Người điều tra	Xác nhận của địa phương/Cơ quan quản lý <i>Thủy nông Tam Giang thuộc dự án "Phát triển nông thôn tổng hợp các tỉnh miền Trung" - Khoản vay bổ sung tỉnh Phú Yên đang triển khai thực hiện. Qua công tác khảo sát, điều tra vật liệu và các công tác cần thiết khác tại địa phương phục vụ xây dựng công trình, đơn vị thiết kế đã xác định được như sau:</i> <i>Hiện trạng: Đường bê tông, đường đất. Thuộc xã Quản lý.</i> <i>Bãi đất trống cách vị trí công trình khoảng 100m, nằm sát đường liên thôn, diện tích đảm bảo để đúc các cấu kiện bê tông và tập kết vật tư vật liệu cho quá trình thi công. Thuộc xã Quản lý.</i> <i>Để có cơ sở tính toán kinh phí xây dựng công trình, đơn vị thiết kế đề nghị UBND xã xác nhận.</i> <div style="text-align: right;"> Ngày 19/12/18 Kính thư <i>Trần Văn Nhật</i></div>
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GIẤY XÁC NHẬN

Dự án thành phần: Nâng cấp kênh tưới thuộc hệ thống thủy nông Tam Giang thuộc dự án: Phát triển nông thôn tổng hợp các tỉnh miền Trung - Khoản vay bổ sung tỉnh Phú Yên đang triển khai thực hiện. Qua công tác khảo sát, điều tra vật liệu và các công tác cần thiết khác tại địa phương phục vụ xây dựng công trình, đơn vị thiết kế đã xác định được như sau:

- Thuộc xã An Ninh Đông, huyện Tuy An, tỉnh Phú Yên quản lý.

- Hiện trạng: Đường bê tông, đường đất. Thuộc xã Quim lý

3. Bãi đất trống cách vị trí công trình khoảng 500m, nằm sát đường ĐT 649 thôn Phú Hội, diện tích đảm bảo để đúc các cầu kiện bê tông và tập kết vật tư vật liệu cho quá trình thi công. Thuộc xã Quỳ Mỹ.

Để có cơ sở tính toán kinh phí xây dựng công trình, đơn vị thiết kế đề nghị UBND xã xác nhận.

Tuy An, ngày tháng năm 2018

Người điều tra

Xác nhận của địa phương/Cơ quan quản lý

[illegible]

Angus & James Simon

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

GIẤY XÁC NHẬN

Kính gửi: UBND xã An Ninh Tây, huyện Tuy An, tỉnh Phú Yên.

Dự án thành phần: Nâng cấp kênh tưới thuộc hệ thống thủy nông Tam Giang thuộc dự án: Phát triển nông thôn sông hợp các tỉnh miền Trung – Khoản vay bổ sung tỉnh Phú Yên đang triển khai thực hiện. Qua công tác khảo sát, điều tra vật liệu và các công tác cần thiết khác tại địa phương phục vụ xây dựng công trình, đơn vị thiết kế đã xác định được như sau:

1. Mô vật liệu đất phục vụ đắp bờ kênh.

Địa hình: Đất đồi, không có hoa màu, phía dưới là nghĩa địa và là nơi tập kết rác thải.

Vị trí: Cách kênh tưới KC4 khoảng 500m.

Thuộc đường vào bãi rác Lô Dấu, xã An Ninh Tây, huyện Tuy An, tỉnh Phú Yên quản lý.

2. Các tuyến đường từ DH31 vào công trình rất thuận tiện để vận chuyển vật tư vật liệu và các cần kiện khác phục vụ xây dựng công trình.

Hiện trạng: Đường bê tông, đường đất. Thuộc xã Quản lý

Để có cơ sở tính toán kinh phí xây dựng công trình, đơn vị thiết kế đề nghị UBND xã xác nhận.

Tuy An, ngày 20 tháng 7 năm 2018

Người điều tra

Xác nhận của địa phương/Cơ quan quản lý

Được địa phương/Cơ quan quản lý xác nhận và đồng ý cho thực hiện công trình. Tuy nhiên để xây dựng công trình này cần có sự đồng ý của UBND xã An Ninh Tây, huyện Tuy An, tỉnh Phú Yên. Đơn vị thiết kế đề nghị UBND xã xác nhận.

