

Initial Environmental Examination

June, 2014

VIE: Integrated Rural Development Sector Project in
the Central Provinces (Additional Financing)

Subproject: Construction of Branch Canals of Van
Phong Irrigation Scheme, Binh Dinh Province

CURRENCY EQUIVALENTS

(as of 10 June 2014)

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.0000475
\$1.00	=	VND 21,036

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.

This initial environmental examination is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the "terms of use" section of this website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

TABLE OF CONTENTS

1. INTRODUCTION	3
2. PROJECT DESCRIPTION.....	4
3. DESCRIPTION OF EXISTING ENVIRONMENT	10
4. ENVIRONMENTAL IMPACT SCREENING.....	14
5. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)	37
5.1 Environmental Mitigation Plan	37
5.2 Environmental Monitoring Plan.....	43
5.2.1 Environmental effects monitoring	43
5.2.2 Environmental Compliance Monitoring.....	46
5.3 EMP Implementation Arrangements.....	49
5.4 Monitoring and Reporting System	51
5.5 EMP Budget.....	51
6. PUBLIC CONSULTATION AND DISCLOSURE ACTIVITIES	52
6.1 Description of Activities to Date.....	52
6.2 Outcomes of Public Consultation to Date	53
6.3 Future Public Consultation Activities	54
7. CONCLUSION AND RECOMMENDATIONS.....	55
8. ANNEXES	56

LIST OF TABLES

Table 1. General information of subproject	4
Table 2. Environmental baseline	10
Table 3. Environmental impact screening	14
Table 4. Environmental mitigation plan	37
Table 5. Environmental effects monitoring plan.....	43
Table 6. Environmental Compliance Monitoring	46
Table 7. EMP Implementation.....	49
Table 8. Monitoring and Reporting System	51
Table 9. EMP Budget.....	51
Table 10. Public consultation and public disclosure activities	52
Table 11. Results of public consultation.....	53
Table 12. Proposed community consultation activities	54

LIST OF PHOTOS

Photo 2: Public consultation in Binh Thuan commune.....	57
Photo 3: Public consultation in Tay An commune	57
Photo 5: Air quality observation location in residential area at the beginning of the proposed canal N24 in Thuan Hanh hamlet - Binh Thuan commune	58
Photo 7: Air quality observation location at the intersection of N24-2 and road 636 (Tan Nghi hamlet - Nhon My commune).....	58
Photo 9: The intersection of proposed canal N24-2-2 and road 636 (Tan Nghi hamlet – Nhon My commune).....	59
Photo 10: The intersection of proposed canal N24-2 and road 636 (Tan Nghi hamlet – Nhon My commune).....	59
Photo 11: The intersection of proposed canal N24-4 and railway to North and South of Vietnam	59
Photo 12: The intersections of proposed canals N24, N24-5A and commune’s road (Tan Le hamlet - Cat Tan commune)	59
Photo 13: Proposed Hoc Oi borrow pit in Tan Le hamlet, Cat Tan commune.....	59
Photo 14: The end of existing main canal N24, Thuan Hanh hamlet, Binh Thuan commune	59

1. INTRODUCTION

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

¹ ADB Safeguard Policy Statement (2009)

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

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

2. PROJECT DESCRIPTION

Table 1. General information of subproject

DATA ITEM	SUBPROJECT DATA
GENERAL INFORMATION	
Subproject Name	Construction of branch canals of Van Phong irrigation scheme
Subproject Type	Irrigation
Executing Agency	People's Committee of Binh Dinh Province
Sub-project owner	Department of Agriculture and Rural Development, Binh Dinh Province
Sub-project Management Unit	PPMU of IRDPCP, Binh Dinh Province
Address of PPMU's office	301 Bach Dang road, Quy Nhon City, Binh Dinh province
Name and Title of Head of Project owner	Le Xuan Son Title : Director
Telephone, fax and email details of Project owner	0914 035 127, Tel : 056.3894274; FAX : 056.3894274; son.lexuan@gmail.com
Name of Environmental Officer of PPMU	Le Dinh Tan
Telephone, fax and email details of PPMU Environmental Officer	0982 006 940, ledinh tan1959@gmail.com
SUBPROJECT DESCRIPTION	
New project or rehabilitation project	New construction project The subproject includes some works as bellow <ul style="list-style-type: none"> • Constructing primary canal N24 with a length of 3.941km; • Constructing secondary canals: N24-1, N24-1A, N24-2, N24-3, N24-4, N24-5, N24-5A with a total length of 10.978 km;

DATA ITEM	SUBPROJECT DATA			
	<ul style="list-style-type: none"> Constructing tertiary canal N24-2-2 with a length of 2.086 km; Constructing 260 on canal structures including water inlets, outlets, culverts, troughs, spillways ect. Administration house. 			
Surface water or groundwater source	Surface water			
Determination of water source	Kon river, taking water from Van Phong weir			
Is this water used for domestic purposes or not?	No. The branch canals will be built for irrigation purpose. Local people use ground water for their living activities.			
Length of canals		Canal	Unit	Length
		N24	Km	3.941
		N24-1	Km	0.634
		N24-1A	Km	0.292
		N24-2	Km	4.169
		N24-3	Km	1.675
		N24-4	Km	2.777
		N24-5	Km	1.067
		N24-5A	Km	0.364
		N24-2-2	Km	2.086
Width and depth of canals		Canal	Width (m)	Depth (m)
		N24	1.3	1.4
		N24-1	0.4	0.5
		N24-1A	0.3	0.4
		N24-2	0.8	0.9
		N24-3	0.4	0.6
		N24-4	0.6	0.7
		N24-5	0.6	0.6
		N24-5A	0.3	0.4
		N24-2-2	0.6	0.75
Length and width of access roads to construction sites	The material transportation roads to constructions sites include National road No. 1A with a length of 30km, a width of 24m; provincial road No.636 with a length of 15km, a width of 5m; concrete commune's roads with a total length of 30 km, a width of 3.5-5m.			
CONSTRUCTION ACTIVITIES³				

³ Source: Basic Design Explanation of Constructing branch canals of Van Phong irrigation scheme Subproject

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

DATA ITEM	SUBPROJECT DATA							
Commencement date (month/year)	Apr. 2015 (as expected)							
Completion date (month/year)	Dec. 2016 (as expected)							
Number of workers	About 200 - 300 persons							
Necessary camps (Yes/No)	Yes, 01 main camp and 06-08 camps along the proposed canals							
Construction in rainy season (Yes/No)	Yes, in case of favorable weather conditions							
Concrete mixing plant	No							
Location and area of borrow area or description of material source	<p>Filled soil will be taken from Hoc Oi lake and Ong Dua hill borrow pits located at a distance of 1.5-5.6 km from the subproject site;</p> <p>Stone will be taken from the licensed quarry of Nhon Hoa, Nhon Hoa district. It is far from the subproject area about 30 Km;</p> <p>Sand will be taken from the licensed mines of La Vi and Dai An rivers.</p> <p>Other material such as steel, cement will be taken from city of Quy Nhon located 46km from the subproject site.</p>							
Method on management and balance of excavated soil/surplus soil	<p>The quantity of excavated soil along the route of canals will not great if compared with the compactness soil which is used for filling back the banks; Surplus soil is transported to fill back the Hoc Oi borrow pit;</p> <p>Cutting soil: 44,222m³; Filling soil: 62,685 m³; Spoiled soil: 6770 m³;</p>							
Type and approximate quantity of raw construction materials	Items	Cutting soil (m³)	Filling soil	Spoiled soil (m³)	Concrete M200 (m³)	Steel reinforce concrete M200 (m³)	Form work (m²)	Steel (kg)
	Canal N24	9,850	15,703.88	1,898	4,758.22	327.64	34,640.36	63,289.52
	Secondary canals							
	Canal N24-1	406	1,327	470	158.5	2.60	1,847.45	845.32
	Canal N24-1A	376	1,328	89	54.96		606.4	164
	Canal N24-2	21,205	21,584	1,009	1,287.58	1,740.96	15,439.34	48,027.28
	Canal N24-3	941	4,770	1,043	417.30	11.43	4,575.21	3,277.56
	N24-4	5,757	6,752	571	805.73	15.74	3,213.29	3,213.29
	Canal N24-5	1,257	4,818	871	344.27	22.67	3,822.09	3,202.35
	Canal N24-5A	362	2,231	191	54.24		730.10	204
	Tertiary canal							
	CanalN 24-2-2	4,021	4,128	628	839.62	43.54	7,948.09	7,982.80
	Administ ration house of	47	43.60			22.46	3.64	1,635.010

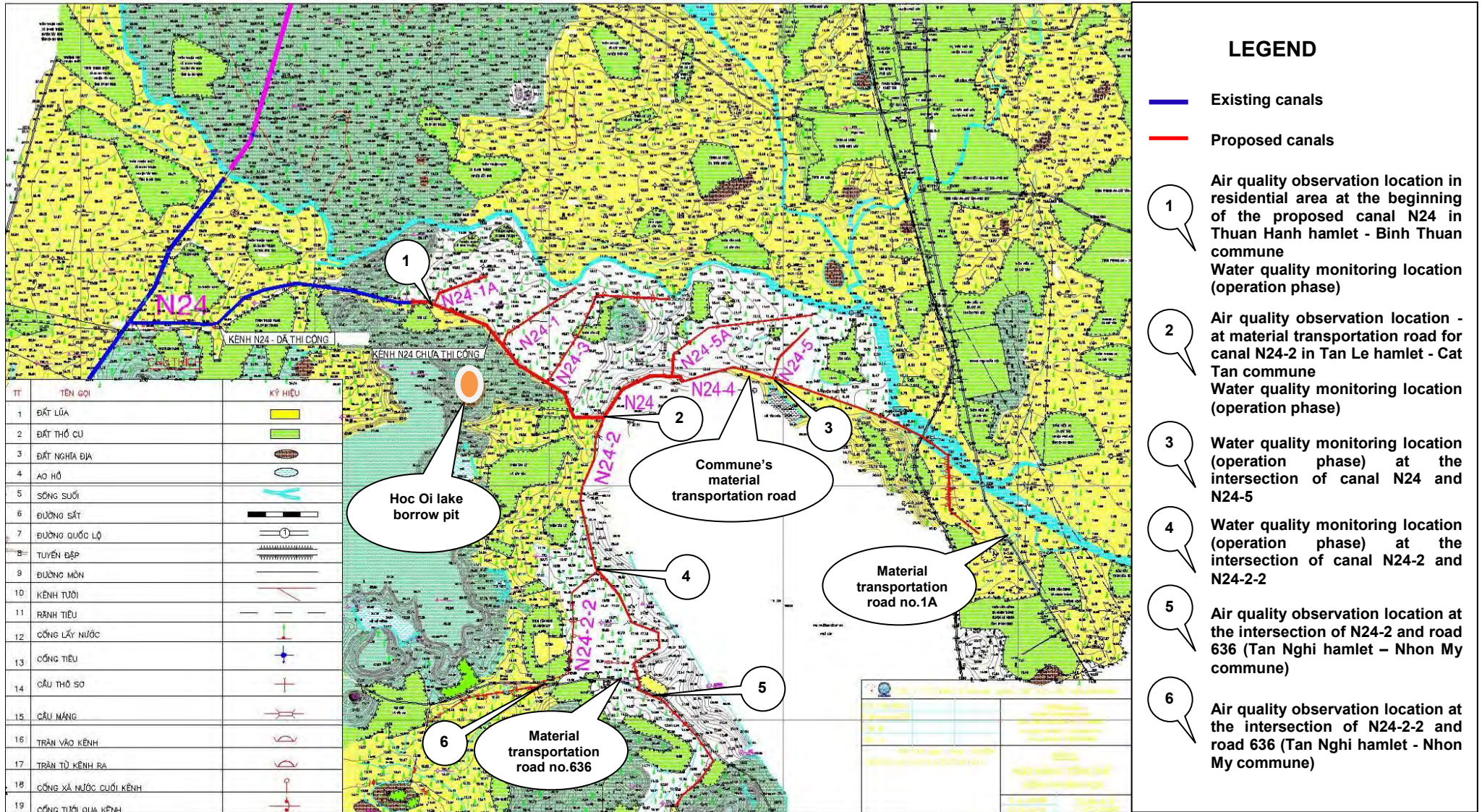
DATA ITEM	SUBPROJECT DATA							
	the canal N24							
	Total	44,222	62,685	6,770	8,722	2,187	72,826	131,919
Quantity of solid waste generated from construction (calculated monthly following m ³) - Soil, sand, debris, etc - Domestic waste	Estimated soil volume: 322.4 m ³ /month Domestic waste: 0.5 kg/person/day, in total: 0.5 kg x200 workers x 30 days = 3000 kg/month							
Number and conditions construction vehicles and equipment	02 bulldozers; 04 excavators; 02 compactors; 06 jumping jack compactors; 14 tip trucks, 04 concrete mixing machines. All vehicles and machines are in good conditions and have registration of periodical verification							
OPERATION AND MAINTENANCE ACTIVITIES⁴								
Water discharge at the beginning section of the canal: (m ³ /s)	Canal	Unit		Discharge (Q)				
	N24	m/s		0.995				
	N24-1	m/s		0.053				
	N24-1A	m/s		0.014				
	N24-2	m/s		0.358				
	N24-3	m/s		0.076				
	N24-4	m/s		0.119				
	N24-5	m/s		0.117				
	N24-5A	m/s		0.009				
N24-2-2	m/s		0.132					
Irrigation area (ha)	727 ha							
Water treatment process	No. Water in Kon river has been used only for irrigation purpose without sign of water pollution. There has not been any water treatment system in the subproject area.							
Descriptions of periodical maintenance activities	<p>Annual maintenance: Annual maintenance activities include greasing machines, replacing broken minor parts of machines such as penstocks; dredging sludge of canals, culverts, spillways; repairing banks of canals; removing rubbish in the canals, culverts, troughs, spillways ect; repairing minor breaks of canal slopes, culverts, spillways and treating extrusion joints, penetration through animal holes and nests of white ants.</p> <p>Annual average cost for Operation and Maintenance Activities estimated 2,132,937,400 VND</p> <p>Periodic maintenance (every 5 years): Periodic maintenance is conducted every five years for canals.</p>							

⁴ Source: SIR of Constructing branch canals of Van Phong irrigation scheme

DATA ITEM	SUBPROJECT DATA	
	Estimated cost for periodic maintenance is 30% of the total cost including repairing significantly damaged works. Detailed activities will be based on the Economic-Technical Report according to the government's regulations on investment management.	
RESETTLEMENT AND LAND ACQUISITION ⁵		
Affected households	292 households of which 22 households are policy families, the handicapped, single/female families	
Number of severely affected APs	There is production land loss of >10% for 08 households.	
Number of APs that must relocate	No house/shop shall be relocated or rebuilt at new place.	
Total land area to be acquired (ha)	Temporary= 0 m2	Permanent = 88,484.95 m2
Agricultural land area to be acquired (ha)	Temporary= 0 m2	Permanent = 70,230.05 m2
Forestry land area to be acquired (ha)	Temporary= 0 m2	Permanent = 161.8 m2
Aquacultural land to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Residential land to be acquired(ha)	Temporary= 0 m2	Permanent = 817.6 m2
Garden land to be acquired (ha)	Temporary= 0 m2	Permanent = 0 m2
Other land to be acquired (ha)	Temporary= 0 m2	Permanent = 17,275.5 m2
Affected assets	None	None
SUBPROJECT COST		
Total subproject cost (VND and \$USD)	65,375,000,000 VND/3,107,768 USD (exchange rate 1USD= 21.036 VND)	

⁵ This data is obtained from Resettlement Plan of the subproject

Figure 1: Map of Subproject and Surrounding Area



LEGEND

- Existing canals
- Proposed canals
- 1 Air quality observation location in residential area at the beginning of the proposed canal N24 in Thuan Hanh hamlet - Binh Thuan commune
Water quality monitoring location (operation phase)
- 2 Air quality observation location - at material transportation road for canal N24-2 in Tan Le hamlet - Cat Tan commune
Water quality monitoring location (operation phase)
- 3 Water quality monitoring location (operation phase) at the intersection of canal N24 and N24-5
- 4 Water quality monitoring location (operation phase) at the intersection of canal N24-2 and N24-2-2
- 5 Air quality observation location at the intersection of N24-2 and road 636 (Tan Nghi hamlet - Nhon My commune)
- 6 Air quality observation location at the intersection of N24-2-2 and road 636 (Tan Nghi hamlet - Nhon My commune)

3. DESCRIPTION OF EXISTING ENVIRONMENT

Table 2. Environmental baseline

DATA ITEM	SUBPROJECT DATA
PROJECT LOCATION	
Commune(s):	Binh Thuan, Tay An, Nhon My and Cat Tan
District:	Tay Son, An Nhon and Phu Cat
Province:	Binh Dinh
Geographic location:	13 ⁰ 39'10" - 14 ⁰ 42'10" N; 108 ⁰ 54'00" - 108 ⁰ 55'4" E
PHYSICAL ENVIRONMENT CONDITIONS	
Air quality, noise and vibration	Air quality & noise: Major activities in the subproject area are agricultural production activities. There are no industrial parks and factories, thus the air is not polluted. The results of air quality analysis at Cat Tan and Nhon My communes in 2013 from Binh Dinh Center for Environmental and Natural Resources show that SO ₂ , CO, NO ₂ , noise are bellow Vietnamese Standard (QCVN 05:2009 and QCVN 26: 2010).
Climate and natural disasters	The rainy season lasts from September to December with the rainfall which makes up 70-75% of the total rainfall in a year. And the dry season lasts from January to August with little rain and much sunshine and the rainfall only makes up 25-30% of the total rainfall in a year. Average rainfall reaches about 1,890 mm in many years and the average temperature is 26.9°C ⁶ . There are storms in the rainy season from September to November of which 40% of the storms occur in September; It rains heavily in the big storm and usually causes flood in the large area. There was a big flood in the subproject area from the 15 th to 19 th of November, 2013. It damaged houses, infrastructure such as roads, culverts, canals, in the subproject area ⁷ .
Topography and soils	Van Phong irrigation scheme mainly passes through the delta on the left of Kon river. Some sections of the scheme cross the area of low hills and flat land. The beginning section of the canal (from Ko to K1+200) first flows on the bottoms of the low hills and then passes the higher area of agriculture land of Binh Thuan, Tay An, Cat Tan and Nhon My communes. In general, the level of the natural ground of the subproject area slightly reduces from the beginning to the end of the proposed canals. The soil in the subproject area contains silt and grey ferralitic.
Waterbodies	There are Kon river, La Vi river, streams and canals in the subproject area. There is no waste water of the subproject discharging into them.

⁶ Source: PPMU of Binh Dinh province, SIR of construction of branch canals of Van Phong irrigation scheme, June 2014

⁷ Source: Nhon My Commune People's Committee, Annual Report on Social Economy, December 2013

DATA ITEM	SUBPROJECT DATA
	Water of the river and canals is mainly used for agriculture purpose.
Underground water	Groundwater is at deep layers. As observed, deep well is 20-40m from the ground surface. The results of ground water quality analysis at Tan Nghi hamlet, Nhon My commune in 2013 from Binh Dinh Center for Environmental and Natural Resources show that parameters such as pH, hardness, TS, COD, NH ₄ ⁺ , Fe, NO ₃ ⁻ , Cl ⁻ , coliform are within allowed limits compared to Vietnamese Standard - QCVN 09: 2008/BTNMT
Water quality	<p>The results of water quality analysis in 2013 from Binh Dinh Center for Environmental and Natural Resources show that parameters such as pH, DO, TSS, COD, NH₄⁺, PO₄³⁻, Cr, Cu, Zn, Mn, Fe, coliform of Van Phong canal at Binh Thuan commune - Tay Son district and Cat Tan commune - Phu Cat district are within allowed limits compared to Vietnamese Standards (QCVN 08: 2008/BTNMT, Column B1). So that water quality of this canal in the project area is not polluted.</p> <p>+ Vietnam's current standards on surface water quality:</p> <p>- QCVN 08:2008/BTNMT - National technical regulation on surface water quality;</p> <p>+ Vietnamese standard on waste water receiving sources:</p> <p>- QCVN 14:2008/BTNMT National technical regulation on domestic waste water; This regulation is applied as a substitution for Standard TCVN 6772:2000 – Water quality – Standard on domestic wastewater in the List of Vietnam's environment standards which must be applied</p> <p>- MONRE's Circular No. 02/2009/TT-BTNMT regarding regulations on evaluation on waste receiving capability of water source.</p>
Flooding	There was a big flood in the subproject area from the 15 th to 19 th of November, 2013. It damaged houses, infrastructure such as roads, culverts and canals in the subproject area.
Terrestrial flora and fauna	<p>+ Terrestrial flora: mainly rice field and fruits and vegetables gardens in residential areas;</p> <p>+ Terrestrial fauna: buffalo, cow, pig, chicken, ducks, etc.</p> <p>+ Terrestrial flora and fauna in subproject area are not listed in Vietnam's Red Data Book.</p>
Protected areas	In subproject area, there is no historical or historical vestiges;
Environmental sensitive points	<ul style="list-style-type: none"> ❖ Residential area in Tan Nghi hamlet, Nhon My commune, An Nhon town; ❖ Residential area in Thuan Hanh hamlet, Binh Thuan commune, Tay Son district; ❖ Residential area in Tan Le, Tan Hoa hamlets, Cat Tan commune, Phu Cat district; ❖ Residential area in Dai Chi hamlet, Tay An commune, Tay Son district;

DATA ITEM	SUBPROJECT DATA
SOCIAL ENVIRONMENT CONDITIONS	
UXO	The final section of the proposed canal of Van Phong irrigation scheme is located near Phu Cat airport. According to the local authorities, this area possibly has bomb left thus it needs to implement UXO clearance;
Land use	Agriculture land: 4744.51 ha; forest land: 2049.15 ha; residential and other land: 2863.34 ha ⁸ . Land is mainly used for agriculture-forest development; Agriculture: mainly plant rice and vegetable, 2 crops/year; Forestry: planting Acacia, Eucalyptus, etc.
Nearest residential land	Residential areas are located along the commune's roads and the road No. 636 including Tan Nghi hamlet, Nhon My commune, An Nhon town; Thuan Hanh hamlet, Binh Thuan commune, Tay Son district; Dai Chi hamlet, Tay An commune, Tay Son district; Tan Le hamlet, Cat Tan commune, Phu Cat district; The distance between nearest residential houses and the proposed canals ranges from 15 m to 150 m;
Rural infrastructure	Communication cables were arranged in parallel with the road No.636; electricity cables were arranged in parallel with commune's roads. The proposed canals will pass through commune's roads and the road No.636, no.19 therefore, the canals will be able to affect on some local infrastructure works such as roads and communication cables;
Access to Water Supply & Sanitation and Solid Waste Management	There is no service in rubbish collection and treatment in Binh Thuan commune. Local people treat rubbish themselves by burning and composting. There are 30% of people who access to sanitation latrines. Domestic waste water discharges on the ground or to ponds, lakes and low positions. In Cat Tan commune, there are 60% of households having toilets, 30% of households having pour flush latrines. There are 300 out of 4000 households accessing to tap water in Tan Hoa and Kieu An hamlets. The percentage of people who use ground water from drilled wells with a depth of 20-40m is 20%. The ground water is not in good quality. Local people have to treat water by sand filter. Domestic solid waste is collected twice a week in the residential area along road 1A and road 636 of Kieu An, Hoa Dong, Binh Duc hamlets. Waste is transported to landfill sites in Cat Trinh and Cat Lam communes, Phu Cat district. In Tay An commune, there is no service in rubbish collection. Domestic water is taken from drilled wells with a depth of 40m or dug wells with a depth of 5-12m. The percentage of households having latrines is 70%.
Agriculture and handicraft	+ Agriculture: mainly wet rice, sugar-cane, bean, corn, peanut, vegetable; water melon; + Handicraft: production of wooden art, rice paper, traditional hats
Population	Estimated number of beneficiary people: 43,329 people. Population density is 149 – 723 persons/km ² ⁹

⁸ Source: PPMU of Binh Dinh province, SIR of Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province, June 2014

DATA ITEM	SUBPROJECT DATA
Ethnic minorities	There is not any ethnic group living in the subproject area;
Livelihoods	+ The main employment of the community is agriculture and handicraft production, occupying 98% of the local population. + The average income is VND 18.5 million/person/year; + The level of poverty (following the new poverty line made by the Government): number of poor households make up 23.10% of the population, mainly including policy families, the handicapped, single/female owned households.
Physical and cultural heritage	There is no cultural heritage or preservation area in the subproject region;
Public health	Diseases which often occur in the summer are diarrhea, petechial fever Besides, there are respiratory diseases like sore throat, sinusitis

⁹ Source: PPMU of Binh Dinh province, SIR of Construction of branch canals of Van Phong irrigation scheme, June 2014

4. ENVIRONMENTAL IMPACT SCREENING

Table 3. Environmental impact screening

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Pre-Construction Stage Impacts					
Disturbance of unexploded mine and bomb (UXO)	Yes	Minor	Negative	Temporary	The subproject area is located near the Phu Cat airport where there will be possibility of UXO
Effects on households from loss of residential or agricultural land	Yes	Medium	Negative	Temporary and permanent	Location: Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune; Affect level: Medium No households must relocate or loss of residential land in the subproject area. The construction of the canals affects 7.023 ha of agricultural land.
Construction Stage Impacts					
Dust, vegetation clearing, noise, water quality or other impacts from development of borrow areas for construction materials	Yes	Minor	Negative	Temporary	Location: Filling soil will be taken from borrow pits that have the business license of Phu Cat district: + Hoc Oi lake borrow pit: exploited at Hoc Oi lake, Cat Tan commune, Phu Cat district - Binh Dinh province, located 1.5-5.6 km from the construction

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>sites. Transporting roads are concrete (Cat Tan, Binh Thuan, Tay An commune's roads) and asphalt (road no.636 and no.1A).</p> <p>+ Ong Dua hill borrow pit exploited at Ong Dua hill, Cat Tan commune, Phu Cat district which is 1.5-5.6 km away from the sites.</p> <p>Soil transportation to the construction sites will affect the local roads of Cat Tan, Nhon My, Binh Thuan and Tay An communes.</p> <p>Affected level: Small</p> <p>However, dust and noise will not be seriously affected because (i) loading capacity of vehicles is less than 10 tons, (ii) communal roads are almost structured of concrete with the width of 3.5-5m; (iii) Among the total soil about 25,233 m³ must be transported; requires about 14 tip trucks with a capacity of 10 tons/ day within 21 months;</p> <p>Time of impact: 21 months</p>
Erosion or sedimentation caused during clearing or earthworks	Yes	Negative	Minor	Temporary	In the work of excavating canals and filling the banks of the proposed canals, construction of on the canal structures such as culverts, water inlets and outlets, spillways, if excavated

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>soil is not collected then siltation will be occurred. It will be able to cause stuck in other canals that pass through the proposed canals, and create filling situation that affects cultivation areas of residents.</p> <p>Location:</p> <p>- The intersections of the proposed canal N24 and 06 existing irrigation canals at K0+40, K0+272, K0+400, K1+200, K1+970, K2+20; The intersections of the proposed canal 24-2 and 01 existing canal at K3+565; The intersections of the proposed canal N24-2-2 and 04 existing canals at K0+1.5, K1+15, K1+145, K1+265; The intersection of the proposed canal N24-3 and an existing irrigation canal at K0+867; The intersections of the proposed canal N24-4 and 07 existing irrigation canals at K0+220, K0+272, K0+460, K0+725, K0+940, K2+15, K2+288 and the main canal of Tan Hoa reservoir at K0+335, the spillway of Tan Hoa reservoir at K1+110, the pond at K1+970; The intersection of the proposed canal N24-5 and an existing irrigation canal at K0+90;</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>The intersections of the proposed canal N24 and 03 existing drainage canals at K2+355, K3+635, K3+900; The intersection of the proposed canal 24-1 and an existing drainage canal at K0+462; The intersections of the canal N24-2 and 04 existing canals at K0+287, K2+918, K3+292, K3+971; The intersection of the proposed canal N24-5 and an existing drainage canal at K0+950;</p> <p>The fields nearby the proposed canals in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet – Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune;</p> <p>Affected level: minor due to excavated volume soil is reused to fill up banks of proposed canals. The discarded soil will be managed by the contractor;</p> <p>Time of impact: 21 months</p>
Impacts arising from temporary storage areas including dust, noise and water quality	Yes	Negative	Minor	Temporary	<p>Location:</p> <p>Stone, sand will be located near the construction sites where uncultivated land to</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>minimize affecting on living residents;</p> <p>Other items (steel, cement) will be stored at commune PCs, other public buildings or in rented houses.</p> <p>Transportation of material will generate noise, dust which affect local residents in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune;</p> <p>Affected level: Small</p> <p>Level of these impacts is minor because: (1) the temporary material store is mobile; (2) materials are mainly handled manually hence, dust and noise affects residential areas will not be significant.</p> <p>Stores will be located at dry places, away from water sources and channels therefore impacts on water quality will be insignificant;</p> <p>Time of impact: 21 months</p>
Pollution of waterways,	Yes	Negative	Small	Temporary	In the process of excavating canals and

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
aquatic environments or underground water from wastes, chemicals, waste water or disturbance of contaminated soils					filling banks of canals and constructing on canal structures, oil and grease leakage will be able to cause water and soil pollution. On the other hand, if waste such as spoiled soil, sand will not be collected and controlled strictly then it will be able to make water turbidity increased. Location: At the intersections of the proposed canals and other canals and ponds as mentioned above, and construction sites in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune. Affected level: Small The affected level is insignificant because (i) The number of construction machines is small; (ii) the construction is scattered over 17km long of the canal, 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

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					turbid water caused by sand and soil depends on the layout and control of excavated soil and temporary disposal sites of excavated soil; Time of impact: 21 months
Changes of water quality due to changes in inlet operation which cause sedimentation or aluminiferous intrusion or pollution	No				The proposed canals are far away from the coastal area, not affected by tide. Therefore, the process of construction does not affected by salinity intrusion, aluminiferous
Making sensitive flora disappeared and deteriorated	No				The proposed canals are located on fields or near residential areas. The site clearance for construction of the canals only affects people's crops and weeds. There is no sensitive flora surrounding the subproject area.
Dust or exhaust fumes from construction equipment.	Yes	Negative	Minor	Temporary	Location: Dust, noise are mainly generated by construction and material transport, affecting people living along the roads and construction sites at Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					Tan commune. Affected level: Small Dust is mainly generated from excavating the proposed canals, filling the banks of the canals and transporting materials. However, construction of the canals does not cause serious dust or air pollution because (i) the subproject area is rural, the construction site is spacious, (ii) number of construction machine is not many and distributes over 16 km length; (iii) vehicles and machines for the construction are registered, controlled, maintained periodically and in good condition. Time of impact: 21 months
Noise from construction equipment	Yes	Negative	Minor	Temporary	Location: Along the transport roads (the commune's roads and the road no.636) and construction sites at Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune. Affected level: Small Affected level is minor due to (i) The number of construction machine is

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>not many (02 bulldozers; 04 excavators; 02 compactors; 06 jumping jack compactors; 14 tip trucks, 04 concrete mixing machines); (ii) construction sites are mainly on the field, away from residential areas.</p> <p>Time of impact: 21 months.</p>
Increasing time and area of flooding	Yes	Negative	Minor	Temporary	<p>The banks of the proposed canals will be built in a level which is higher than natural ground level. This will disturb drainage in the area near the construction sites, so the time and area of flooding will be able to increase.</p> <p>Location: low area along the proposed canal routes at Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune.</p> <p>Affected level: Small</p> <p>The affected level is minor because in the construction sites along the proposed canals there are 09 existing canals to drainage storm water. Moreover, contractors will build temporary drainage systems in the</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>constructions area to minimize flood.</p> <p>Time of impact: depending on the affect time of flooding and heavy rain during construction phase.</p>
Impact on traffic or conditions for property access	Yes	Negative	Minor	Temporary	<p>Construction of the proposed canals will disturb traffic in the subproject area because the proposed canals will pass through 35 earth roads with a width of 1.2 to 7m, a concrete road with a width of 3m, road no.19 and road no.636. In additional, material transportation will be able to affect on movement demand, transporting goods of local people, disturbance to individual households and cause risk for safety traffic.</p> <p>Location: A long the material transportation roads including the commune's roads, road no. 19, no.636 and no.1A; the intersections of the proposed canals and 35 earth roads, the concrete road, road no.19 and road no.636.</p> <p>Affected level: Small</p> <p>Impact on traffic is minor because the traffic in the subproject area in low density with main transport vehicles of local peoples are motorbike and bicycle; people can use branch route in the</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>communes to travel during construction.</p> <p>Time of impact: 21 months</p>
<p>Impact on public infrastructure such as communication, electricity wires, inter-commune road, etc.</p>	Yes	Negative	Minor	Temporary	<p>Location: Commune's roads, roads no.19, no.636</p> <p>Affected level: Small</p> <p>Communication cables were arranged in parallel with road 636; electricity cables were arranged in parallel with commune's roads. The proposed canals will pass through commune's roads and road 636, road 19 therefore, the canals will be able to affect on some local infrastructure works such as roads and electricity and communication cables; Besides, the roads will be able to be damaged by trucks during transporting construction materials if they are over load. However, this impact is not significant because material transportation will be controlled by contractors. Contractors will build temporary bypass roads near intersections of the proposed canals and commune's road, road 636 and road 19. The contractors will also build bridges over the proposed canals.</p> <p>Time of impact: 21</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					months
Employment or livelihood benefits from employment of local people	Yes	Minor	Positive	Temporary	<p>Location: Local people in the subproject areas such as Cat Tan, Nhon My, Tay An and Binh Thuan communes.</p> <p>Affected level: Small</p> <p>This is a positive impact; however, it requires the coordination between the contractor and CPC of subproject communes and nearby communes in recruiting local labors. (contractors often prefer to engage their own trained workforces rather than training unskilled laborers)</p> <p>Contractors will use local laborers for simple works such as moving soil, give priority to poor families, female householders, woman if they need jobs. It aims to raise their income, create more jobs and contribute to hunger elimination and poverty alleviation for community.</p> <p>Time of positive impact: 21 months</p>
Effects on nearby heritage items such as graves, pagodas etc.	No				The subproject does not affect any national or local heritage items such as pagodas, temples, gravestones nearby the proposed canals.
Construction workers cause social disruption	Yes	Negative	Minor	Temporary	<p>Location: Workers' camps along the proposed canals and residential area at Thuan</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune.</p> <p>Affect directly on workers and indirectly on the community near the construction site. Workers have to get temporary residence certificate to avoid social disruption in the subproject area. Some social problems can appear such as gambling, drug addiction, prostitute, violence, conflict amongst workers, or between workers with local people.</p> <p>Affected level: Small</p> <p>Impacts are at unremarkable levels because the construction activities of workers can be controlled by working regulation in the construction site and construction duration is not long (within 21 months expected);</p> <p>Time of impact: 21 months</p>
Generation of excess spoil	Yes	Positive	Minor	Temporary	<p>Location: Along Construction sites in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune.</p> <p>Affected level: Small</p> <p>This impact is insignificant because in fact, during the construction, some excess spoil will generate but backfilling soil is also required at banks of the proposed canals. Thus, they can be used to fill the banks of the proposed canals</p> <p>On the other hand, local people can use this spoil to level their land. Spoiled soil will also be sent to Hoc Oi lake and Ong Dua hill borrow pits to restore them.</p> <p>Time of impact: 21 months</p>
Risk to health and safety to local people or construction workers	Yes	Negative	Minor	Temporary	<p>Location: Residential area near the construction sites and material transportation roads; Construction sites along the proposed canals.</p> <p>1. Dust, exhaust gas and noise generating from earthworks, transporting material, construction activities and operation of machines, etc. These factors have direct affects on health of workers and local residents; Material transport may create the risk of affects on traffic safety and</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>houses structure on road sides in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune; Traffic signs and signals are insufficiently arranged, awareness of residents in rural areas on traffic safety is not high. Besides, unsafe of transportation materials will endanger the traffic along the route; Sewage from construction activities and domestic use of workers. This causes some respiratory diseases for local people as well as workers. Accidents may occur if during the construction, workers are not provided with safety equipment and obey construction regulations.</p> <p>Affected level: Small Exhaust fume, dust and noise do not have remarkable affects on residents because of small quantity, low transport frequency of trucks (14 trips/day) and short construction period (within 21 months as expected)</p> <p>Other impacts mentioned above are insignificant</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					because the contractor will apply measures to mitigate impacts on the environment, on workers as well as local people in the subproject area. Besides, the contractor will provide workers with safety equipment. 2. Infectious diseases Affected level: Small Number of workers is not great (during construction, there are often fewer than 300 persons). However, the level of contagiousness depends on the control of construction unit and local authority; Time of impact: 21 months
Causes waste disposal problems from solid waste generated during construction activity or municipal waste generated in construction camps	Yes	Minor	Negative	Temporary	Location: Workers' camps along the proposed canals in Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet - Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune; material stores, Hoc Oi and Ong Dua hill borrow pits. Affected level: Small Solid waste that will be generated from construction mainly includes domestic waste of workers and scraps of transported soil and stone, debris, mud.

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>Number of worker is not big, total about 300 workers, construction activities mainly include excavating 16 km of the proposed canals; therefore, generation of construction wastes are not so much about 322.4 m³/month (construction waste) and 2.0 tons/month (domestic waste)</p> <p>Time of impact: 21 months</p>
Impacts on irrigation activities	Yes	Negative	Minor	Temporary	<p>In the work of excavating proposed canals and filling the canal banks, if excavated soil is not collected then siltation will be occurred. It will be able to cause stuck in other irrigation canals that pass through the proposed canals and interrupt irrigation activities.</p> <p>Location: The intersections of the proposed canal N24 and 06 existing irrigation canals at K0+40, K0+272, K0+400, K1+200, K1+970, K2+20; The intersections of the proposed canal 24-2 and 01 existing canal at K3+565; The intersections of the proposed canal N24-2-2 and 04 existing canals at K0+1.5, K1+15, K1+145, K1+265; The intersection of the proposed canal N24-3 and an existing</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					irrigation canal at K0+867; The intersections of the proposed canal N24-4 and 07 existing irrigation canals at K0+220, K0+272, K0+460, K0+725, K0+940, K2+15, K2+288 and the main canal of Tan Hoa reservoir at K0+335, the spillway of Tan Hoa reservoir at K1+110, the pond at K1+970; The intersection of the proposed canal N24-5 and an existing irrigation canal at K0+90; Affected level: Small Affected level is minor and can be mitigated by building culverts. Time of impact: 21 months
Impacts in operation stage					
Inundation of sensitive vegetation from operation of the canals	No				Building new canals of the subproject will not cause flooding situation due to increment of irrigation area. On canal structures such as inlets, outlets and other controlling systems will be operated properly to handle flood. Moreover, there is no sensitive vegetation in the subproject area.
Excessive exploitation of surface water will	No				Reasonably exploit the surface water according to approved design task

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province
Integrated Rural Development in Central Provinces Project

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
make water supply capacity cannot catch up with demands and/or cause conflicts among households					of the works with an irrigation capacity of 727 ha for 2 rice crops/year; Increase the ability to meet the water demand for agriculture, especially the area has not been watered for long time; thereby harmonize the conflicts between households using water.
Water quality is changed due to salinity intrusion, aluminiferous water or sedimentation	No				The subproject area is not affected by seawater or tide, so it is not affected by salinity intrusion or aluminiferous; The proposed canals will be lined by concrete so the water will not be polluted by sediment.
Water is exploited at sensitive ecological places/or reservation areas	No				There is no sensitive ecological areas or protection areas in the subproject area;
Productivity is improved by increase of irrigation capacity	Yes	Positive	Significant	Permanent	Location: Cat Tan, Tay An, Nhon My, Binh Thuan communes. Affected level: Significant Increasing irrigation area of 727 ha compared with current cultivation area; cultivation productivity and diversification plants in the subproject area are increased.
Cultivation habits will be changed due to the turning of land use for agriculture	Yes	Positive	Significant	Permanent	Location: The utilization area of agricultural land will be increased at less

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
purposes					<p>cultivated area where often occurs drought in Tan Nghi hamlet, Nhon My commune, An Nhon town; Thuan Hanh hamlet, Binh Thuan commune, Tay Son district; Dai Chi hamlet, Tay An commune, Tay Son district; Tan Le hamlet, Cat Tan commune, Phu Cat district.</p> <p>Affected level: Significant</p>
Reduce nutrition in the soil due to over-irrigation	Yes	Minor	Negative	Permanent	<p>Location: beneficiary area in Cat Tan, Tay An, Nhon My, Binh Thuan communes.</p> <p>Affected level: Small</p> <p>There is not statistics or research in the area regarding the percentage loss of nutrients. Actually, the rate of soil nutrient loss is very small due to the cultivation in the plain with small slope that can not cause drift of soil when it rains or excessive irrigation. After the proposed canals are completed, the regulating system will be facilitated and more flexible, hence, the land will not lose nutrients due to excessive irrigation.</p>
Soil erosion or scouring of streams or canals,	No				<p>The canal is built from concrete so that soil erosion and land slide will not occur;</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
Congested canals cause flooding situation	Yes	Negative	Minor	Permanent	<p>Location: Along the proposed canals of N24, N24-1, N24-1A, N24-2, N24-2-2, N24-3, N24-4, N24-5 and N24-5A.</p> <p>Affected level: Small</p> <p>In case of improperly operation and regulation of the culvert system, water will cause overflows and broke the canals.</p> <p>In addition, waste on the canals can cause stuck in the canals.</p>
Risks caused by natural calamity	Yes	Minor	Negative	Permanent	<p>Location: The subproject area, especially in Tay An, Cat Tan, Nhon My and Binh Thuan communes.</p> <p>Affected level: Small</p> <p>Natural calamity will have serious affects on resident life as well as economic growth in the region. However, directly impacts on canals are minor because their positions are in paddy field, not directly suffered from river or dynamic flow damage</p>
Affecting water quality due to the increased volume of pesticide or chemical used for water treatment or increasing the waste water	Yes	Negative	Minor	Permanent	<p>Location: Irrigation area in Tay An, Cat Tan, Nhon My and Binh Thuan communes.</p> <p>Affected level: Small</p> <p>After constructing the canals, the cultivated area will increase about 627.16 ha. Consequently, the quantity of pesticides</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					<p>or chemical fertilizers will be increased.</p> <p>The amount of pesticides on field surface and drainage system will affect the quality of agricultural land and irrigation water, possibly groundwater. The risk will increase if the management of pesticides is not reasonable.</p>
Affects on employment or livelihood	Yes	Positive	Significant	Permanent	<p>Location: The subproject area in Tay An, Cat Tan, Nhon My and Binh Thuan communes.</p> <p>Affected level: Significant</p> <p>Increase incomes and living standards for people in the subproject area by means of increasing the agricultural land area for production, cultivation productivity and diversification plants of seasonal crops.</p>
Impacts on ethnic groups	No				No ethnic minority living within subproject area.
Generating solid and liquid waste	Yes	Negative	Minor	Permanent	<p>Location: The subproject area in Tay An, Cat Tan, Nhon My and Binh Thuan communes.</p> <p>Affected level: Small</p> <p>Agricultural waste after harvested or garbage from other farming</p>

IMPACT	POTENTIAL IMPACT				BRIEF DESCRIPTION OF IMPACT LOCATION AND SCALE
	YES/ NO?	IS IT MINOR OR SIGNIFICANT?	IS IT POSITIVE OR NEGATIVE?	IS IT TEMPORARY OR PERMANENT?	
					activities such as pesticide covers and straw is popular. Currently, waste has not polluted severely to the canal water quality, soil, crops and farming areas. However, in the long-term, it will affect increasingly to soil and water quality and plants if the management authorities do not control and minimize;
Occupying land of canal bank and canal safety corridor for individual purposes	Yes	Negative	Minor	Permanent	<p>Location: the right of way (ROW) of the corridors of canals of the sub-project in Tay An, Cat Tan, Nhon My and Binh Thuan communes.</p> <p>Affected level: Small</p> <p>The occupying land for planting perennial trees or for personal purpose in the right of way (ROW) of the channel corridors are remain. Occupying land for planting perennial trees are violate regulations of the Ministry of Agriculture and Rural Development on protection corridor canals and makes difficulties in implementing compensation and project execution during upgrading of the work;</p>

5. OUTLINE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

5.1 Environmental Mitigation Plan

Table 4. Environmental mitigation plan

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
Pre-construction stage				
Disturbance of unexploded mine and bomb (UXO)	PPMU will hire the army to detective and clear unexploded mine and bomb in the subproject area to ensure that there are no any mine or bomb left in the proposed construction sites before commencing the work	PPMU		Included in the contract with the army
Effects on households from loss of residential or agricultural land	Implement mitigation measures outlined in the subproject Resettlement Plan	PPMU		Included in resettlement report
Construction stage				
Dust, vegetation clearing, noise, water quality or other impacts from development of borrow areas for construction materials	<ul style="list-style-type: none"> ▪ Operation license of Hoc Oi Lake, Ong Dua hill borrow pits and Nhon Hoa quarry must be obtained before exploiting construction materials. The operations licenses will include approved environmental certificate. Hence, dust and noise generated by exploitation activities will be minimized. ▪ When transporting construction materials, canvas must be used to cover to avoid dust. ▪ Construction equipment and machines must be in good condition and be maintained regularly. 	Contractor		No marginal cost No marginal cost No marginal cost
Erosion or sedimentation caused during clearing or earthworks	<ul style="list-style-type: none"> ▪ Install sediment fences and/or sediment traps at intersections of the proposed canals and existing irrigation and drainage canals; ▪ Construct temporary drainage canals following the proper directions so that clean water flow can get far away from affected areas during 	Contractor	Sediment fences, traps.	No marginal cost

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	<p>construction;</p> <ul style="list-style-type: none"> ▪ Minimize area of land clearance and duration of works within this area; ▪ Restoration of areas cleared for the construction sites; ▪ Dredge sediment if necessary. ▪ Re-vegetation after construction activity finishes. 			
Impacts arising from temporary storage areas including dust, noise and water quality	<ul style="list-style-type: none"> ▪ Implement dust reducing methods as mentioned above material extraction sites or temporary material storage yards; ▪ Material transportation is strictly forbidden in the evening when stores are located next to residential areas; ▪ Drainage ditches within the storage area should be controlled and properly transport unused material to disposal sites in Cat Lam and Cat Trinh communes, Phu Cat district; 	Contractor		No marginal cost
Pollution of waterways, aquatic environments or underground water from wastes, chemicals, waste water or disturbance of contaminated soils	<ul style="list-style-type: none"> ▪ Store chemicals in secure area, with concrete floor and weatherproof roof and away from watercourses and floodplains; ▪ Ensure construction equipment and vehicles are maintained in good conditions to avoid leakage; ▪ Provide rubbish bins and containers at camping sites and construction sites. Transport waste regularly from the sites to the disposal sites at Cat Lam, Cat Trinh communes, Phu Cat district (This will be committed by the contractor and the contractor can hire an environmental company to transport the rubbish) ▪ Install sanitary toilets with septic tanks following sanitation regulation and washing facilities at construction camps. 	Contractor	Tanks for storing chemicals, sanitary toilets, rubbish bins and containers	Included in the contract

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	<ul style="list-style-type: none"> ▪ Collect debris, sludge at the construction sites. ▪ Avoid directing discharges from concrete mixing equipment to waterways 			
Dust or exhaust from construction equipment	<ul style="list-style-type: none"> ▪ When transporting construction materials, implement strictly dust suppression measures such as watering of exposed surfaces and covering the trucks with canvas; ▪ Ensure that all construction vehicles and equipment are well maintained; ▪ Use unleaded petrol. 	Contractor	Canvas, washing facilities	Included in the contract
Noise generated from construction equipment	<ul style="list-style-type: none"> ▪ Ensure construction equipment and vehicles are well-maintained ▪ Avoid constructing at night time; ▪ Inform local communities near construction area about schedule and duration of construction works. Collect feedbacks from the community through, head of villages and CPC. 	Contractor District/Town Support Team, CPC, DPC		Included in the contract with contractors
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. ▪ Building temporary drainage ditches in the construction sites; 	Contractor	Temporary drainage ditches	Included in the contract with contractors
Affects on traffic or conditions for property access	<ul style="list-style-type: none"> ▪ Install signal lamps and sign panels at crossing points with road branches. Limit the speed of means of transport on the route; ▪ Build bypass roads to facilitate people's traveling; ▪ Notify nearby community of schedule and duration of construction. 	Contractor Contractor Contractor		No marginal cost
Impact on public infrastructure such as communication	<ul style="list-style-type: none"> ▪ Consulting the sub-project engineering staff to minimize physical impacts on public infrastructure and disruption to services; 	PPMU		No marginal cost No marginal

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
n, electricity wires, inter-commune road, etc.	<ul style="list-style-type: none"> ▪ Avoid impacts on low-voltage lines in villages during transport of materials and construction machinery; ▪ Minimize using heavy trucks for transporting materials in rainy season to avoid accidents from crashing into houses or works at road edge due to slippery roads; ▪ Contractors must repair material transportation roads if they damage them. ▪ Comply traffic regulations (limit the velocity of trucks); ▪ Install warning signs and avoid crashes to electric poles and houses. ▪ Identify locations of communication wires in the edge of road 636 at Tan Nghi hamlet, Nhon My commune to avoid damaging them while implement construction of the proposed canals 	<p>Contractor</p> <p>Contractor</p> <p>Contractor</p> <p>Contractor</p> <p>Contractor</p>		<p>cost</p> <p>No marginal cost</p> <p>Included in resettlement part</p> <p>Included in the contract</p> <p>Included in the contract</p> <p>No marginal cost</p>
Construction workers cause social disruption	<ul style="list-style-type: none"> ▪ Consult with local Commune PC in the subproject area to arrange accommodation for workers (to avoid any negative impacts on local people's activities) and register temporary residence card for them; ▪ Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions; ▪ Raise workers' awareness of environmental sanitation, infectious diseases as well as prevention of HIV/AIDS and sexually transmitted diseases and dissemination on social evils like drugs, gambling, prostitution, violence, stealing, etc. 	<p>Contractor</p>		<p>No marginal cost</p>
Risk to health and safety to local people	<ul style="list-style-type: none"> ▪ Minimize impacts of dust, polluted air, soil and infectious diseases on local people and workers; 	<p>Contractor</p>	<p>Safety equipment</p>	<p>Included in the contract</p>

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
or construction workers	<ul style="list-style-type: none"> Provide workers with safety equipment. 			
Causes waste disposal problems from solid waste generated during construction activity or municipal waste generated in construction camps	<ul style="list-style-type: none"> Provide rubbish bins (02 bins at the main camp; 01 bin for each camp along the canal sides and request workers to collect waste and not to leave litter into any water resources; Provide containers to collect construction waste and hazardous waste such as used oil at construction sites. Collect solid waste regularly and transport to the landfill sites at Cat Lam and Cat Trinh communes of Phu Cat district which is located at a distance of 5-10 km from the construction sites. 	Contractor	Rubbish bins and containers	Included in the contract
Impacts on irrigation activities	<ul style="list-style-type: none"> Install sediment fences and/or sediment traps at intersections of the proposed canals and existing irrigation canals; Construct temporary drainage canals following the proper directions so that clean water flow can get far away from affected areas during construction; Restoration of areas cleared for the construction sites; Dredge sediment if necessary. 	Contractor Contractor Contractor Contractor		Included in the contract with the contractor
Operation stage				
Reduce nutrition in the soil due to over-irrigation	Coordinate with agriculture authority/ Agricultural extension units to ensure that farmers are trained on proper irrigation method;		DARD of Binh Dinh province	Provincial budget
Congested canals cause flooding situation	<ul style="list-style-type: none"> Operate regulation works canal properly, flexibly with real condition to avoid waste and water overflow at the proposed canals; Periodically dredge irrigation canal system after harvesting crop, heavy rain and flood; Periodically inspect and 	Binh Dinh Irrigation Work Exploitation Limited Company		Provincial budget

POTENTIAL IMPACTS	MITIGATION MEASURES	RESPONSIBILITY	TREATMENT FACILITIES	COST
	maintain canals and on canal structures.			
Risks caused by natural calamity	<ul style="list-style-type: none"> ▪ Ensure that subproject design will meet all safety standards on prevention of flooding, storms and other potential natural calamity; ▪ Irrigation works exploitation factory need repairs and maintain the works periodically to ensure the operation capacity. 	PPMU Binh Dinh Irrigation Work Exploitation Limited Company		No marginal cost Provincial budget
Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water	<ul style="list-style-type: none"> ▪ Coordinate with agriculture authority to ensure that farmers are trained on irrigation method; ▪ Solid waste from pesticide, insecticide as well as other substance such as herbicide should be stored in safety tanks at cultivation area before transport to dumping area; ▪ Ensure weed and other floating waste are periodically cleaned along the canals; ▪ Coordinate with Agriculture Extension Center to ensure that farmers are trained on Insect Prevention Method (IPM). 	Binh Dinh Irrigation Work Exploitation Limited Company/ DARD		Provincial budget and other assistance funds
Generated solid and liquid waste	<ul style="list-style-type: none"> ▪ Periodically collect waste in canals and field surface; ▪ Build waste collection system; ▪ Improve the awareness of local people of waste management and collection in the field, canals via training courses. 	Binh Dinh Irrigation Work Exploitation Limited Company/ DARD		Provincial budget
Occupation of canal and canal safety corridor for individual purposes	<ul style="list-style-type: none"> ▪ Implement strict management measures to protect the canal banks and reservoir protection area from being reoccupied (for tree planting and other encroachment) by regular check and establishment of regulations on treatment of violations (if any) 	Binh Dinh Irrigation Work Exploitation Limited Company		Provincial budget

5.2 Environmental Monitoring Plan

5.2.1 Environmental effects monitoring

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

Table 5. Environmental effects monitoring plan

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Construction stage						
Minimization of noise generation	Noise level	At nearest residential areas of the main canal, primary & secondary canals N24, N24-1, N24-1A, N24-2, N24-2-2, N24-3, N24-4, N24-5 and N24-5A and residential areas near material transportation roads in Tan Nghi hamlet, Nhon My commune, An Nhon town; Thuan Hanh hamlet, Binh Thuan commune, Tay Son district; Dai Chi hamlet, Tay An commune, Tay Son district; Tan Le hamlet, Cat Tan commune, Phu Cat district	Observation and community consultation	Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Every 6 months during construction period or when community's feedback is raised	Monitoring consultant on environmental safeguard policies of LIC team	Included in separated contract with CPMU
Minimization of dust generation	Dust concentration	The same monitoring locations of Noise	Observation and community consultation	Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Every 6 months during construction period or	Monitoring consultant on environmental safeguard policies of LIC	Included in separated contract with CPMU

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
				when community's feedback is raised	team	
Control of surface water quality	Sedimentation, rubbish, lubricating oil and solid waste BOD, DO, pH, TSS, Total coliform; fecal coliform, lubricating oil	The intersections of the proposed canal N24 and 09 existing canals; The intersections of the proposed canal 24-2 and 05 existing canals; The intersections of the proposed canal N24-2-2 and 04 existing canals; The intersection of the proposed canal N24-3 and an existing irrigation canal; The intersections of the proposed canal N24-4 and 07 existing irrigation canals and the main canal of Tan Hoa reservoir, the spillway of Tan Hoa reservoir, the pond at K1+970; The intersection of the proposed canal N24-5 and 02 canals	Visual Observation; Sampling and analysis	Weekly and after large rain events	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU
				Based on requirement of water supply	Local people, Community monitoring committee Local irrigation staff (commune)	Province budget Without marginal cost
				Once every 6 months during construction or in case of at any time or in case of complaints of residents	Monitoring consultant on environmental safeguard policies/LIC	Included in separated contract with CPMU
Labor safety and community safety	Number, use of labor equipment; signal system Obey for traffic law of transportation mean of construction material	In construction sites and on material transportation roads along residential areas of Thuan Hanh hamlet - Binh Thuan commune, Dai Chi hamlet - Tay An commune, Tan Nghi hamlet -	Observation and community consultation	Weekly or when community's feedback is raised	Local people, Community monitoring committee	Without marginal cost
				Weekly or when community's feedback is raised	Construction Supervision Consultant (CSC)/ hold Environmental Supervision Consultant	Included in the contract with PPMU

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
		Nhon My commune, Huu Hanh, Hoa Dong, Tan Hoa and Tan Le hamlets - Cat Tan commune;		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						
Surface water quality	BOD, DO, pH, TSS, Total coliform; fecal coliform, turbidity	Location: At 04 points: the intersections of canal N24 and canal N24-1A, canal N24-2, canal N24-5 and the intersection of canal N24-2 and canal N24-2-2	Observation and community consultation Or sampling methods following Vietnamese standard when receiving feedback from communities	Twice a year in two first years of operation (1 time in rainy season and 1 time in dry season)	DARD, Binh Dinh Irrigation Work Exploitation Limited Company;	Included in operation cost of Binh Dinh Irrigation Work Exploitation Limited Company
Waste management	Conditions on environmental sanitation within the subproject area; temporary waste storage yard	Throughout the subproject area	Observation and community consultation	Once every 6 months in first 2 years of operation	Binh Dinh Irrigation Work Exploitation Limited Company	Budget provided following regulations at Decree No.115
Periodical canal maintenance	Level of canal sedimentation and conditions of sluices, equipment and works on the main canal	Along the main canal N24 and branch canals N24-1, N24-1A, N24-2, N24-3, N24-4, N24-5, N24-5A	Field survey, community consultation	Once every 6 months in first 2 years of operation	DARD/ Binh Dinh Irrigation Work Exploitation Limited Company	Local budget
Re-	Occupation	Along the main	Field	Once every	DARD/ Binh	Local

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
occupation of canal corridor	area, type of occupation (for planting trees or other purposes)	canal N24 and branch canals N24-1, N24-2, N24-4, N24-5A N24-1A, N24-3, N24-5	survey, community consultation	6 months in first 2 years of operation	Dinh Irrigation Work Exploitation Limited Company	budget

5.2.2 Environmental Compliance Monitoring

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

Table 6. Environmental Compliance Monitoring

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
Pre-construction Stage						
UXO clearance	Certification of clearance	Affected areas	Observation	Prior to commencement of site works	Construction Supervision Consultant/PP MU	Included in the contract signed with Construction Supervision Consultant
Construction Stage						
Erosion and sediment controls	Condition and capacity of controls	Throughout construction sites	Observation	Weekly and After heavy rain	Construction Supervision Consultant	Included in the contract signed with Construction Supervision Consultant and Loan Implementation Consultant Team (LIC)
				Every six months	Environmental Specialist of LIC Team	
Materials storage	Condition of materials storage areas	Throughout construction sites	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with Construction Supervision Consultant and Loan Implementation Consultant Team (LIC)
				Every six months	Environmental Specialist of LIC Team	
Construction equipment and vehicles	Noise and exhaust generation;	Throughout construction sites	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	covering of trucks; oil/fuel leaks			Every six months	Environmental Specialist of LIC Team	with Construction Supervision Consultant and Loan Implementation Consultant Team (LIC)
Construction camp conditions	Cleanliness; waste disposal facilities; general condition	All construction camps	Observation	Weekly	Construction Supervision Consultant	Included in the contract signed with Construction Supervision Consultant and Loan Implementation Consultant Team (LIC)
				Every six months	Environmental Specialist of LIC Team	
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 Supervision Consultant Local Community Monitoring Boards	Included in the Contracts signed with Construction Supervision and Loan Implementation Consultant Team (LIC) Local budget
				Every six months	Environmental Specialist of LIC Team	
Areas of standing water	Ponded or undrained water	Throughout construction site	Observation and community consultation	Weekly during rainy season	Construction Supervision Consultant Local Community Monitoring Boards	Included in the Contracts signed with Construction Supervision Consultant Local budget
				Once every 6 months during construction or in case of at any time if necessary	Monitoring consultant on environmental safeguard policies/LIC	
Waste disposal	Environmental sanitation at	Throughout construction site	Observation	Weekly	Construction Supervision Consultant	Included in the

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

Construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province

Integrated Rural Development in Central Provinces Project

Mitigation Measure	Parameters	Location	Methods	Frequency	Responsibility	Cost
	construction site and temporary waste storage area			Every six months	Environmental Specialist of LIC Team	contract signed with Construction Supervision Consultant and Loan Implementation Consultant Team (LIC)
Operation Stage						
Waste management	Site cleanliness and conditions of temporary waste storage areas; recent waste disposal method	Throughout sub-project area	Observation	6 monthly for first 5 years of operation	Binh Dinh Irrigation Work Exploitation Limited Company	Provincial budget
Using irrigation water	Using matter	Households near canals	Observation and community consultation	Once every 6 months in first 5 years of operation	PPMU/ Binh Dinh Irrigation Work Exploitation Limited Company	Budget provided following regulations at Decree No.115
Soil erosion or land slide in canal	Conditions of canal; level of sludge in water	At sections which have not be rehabilitated	Observation	Once every 6 months in first 2 years of operation	PPMU/Binh Dinh Binh Dinh Irrigation Work Exploitation Limited Company	Budget provided following regulations 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 5 years of operation	PPMU/ Binh Dinh Irrigation Work Exploitation Limited Company	Budget provided following regulations at Decree No.115

5.3 EMP Implementation Arrangements

Table 7. EMP Implementation

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
CPMU	<p>Advice to PPMU Safeguards Officer on IEE/CEP and IEE/EIAR preparation</p> <p>Review and provide “no-objection” on IEE/CEPs or IEE/EIARs submitted by PPMUs</p>	<p>Suggest to PPMU Safeguards Officer on EMP implementation during construction</p> <p>Monitor progress during construction</p> <p>Consolidate environmental reporting from PPMU</p>	<p>Advice to PPMU Safeguards Officer on EMP implementation during first 2 years of operation</p> <p>Monitor progress during first year of operation</p> <p>Consolidate PPMU environmental reporting</p>
PPC	<p>Sign-off on environmental assessment documents prior to submission for approval</p> <p>Approval of any subprojects requiring EIAR that are not subject to MONRE approval</p>	<p>Project owner with ultimate responsibility for environmental performance of subproject during construction</p>	<p>Project owner with responsibility for operation stage environmental performance including implementation of EMP during operation</p>
DONRE	<p>Provide advice and guidance on environmental issues as required during subproject preparation</p>	<p>Monitoring implementation of EMP through their own internal monitoring system</p>	<p>Monitoring implementation of EMP through their own internal monitoring system</p>
PPMU	<p>Engage consultant and have overall responsibility for IEE/CEP or IEE/EIAR preparation and submission for approval</p> <p>Ensure staff are adequately trained in environmental issues</p>	<p>Responsibility for EMP implementation during pre-construction and construction</p> <p>Ensure that contract specifications and bud documents include environmental requirements</p> <p>Undertake inspections and monitoring of environmental issues during construction</p> <p>Coordinate environmental monitoring reporting to CPMU</p>	<p>Responsibility for EMP implementation during first year of operation</p> <p>Undertake inspections and monitoring of environmental issues during first year of operation</p> <p>Assist project owners to incorporate environmental requirements into infrastructure O&M procedures</p>
Town and District PCs	<p>Approval of subproject CEPs in accordance with GOV legislative requirements</p>	<p>Monitoring implementation of EMP through their own internal monitoring system</p>	<p>Monitoring implementation of EMP through their own internal monitoring system</p>
Town and District Subproject	<p>Assist in IEE/CEP preparation as required</p>	<p>Day to day supervision of contractors’ in district including</p>	<p>Undertake environmental</p>

Organization	Roles and Responsibilities		
	Subproject Preparation	Subproject Implementation	Subproject Operation
Support Teams (SST)	Assist PPMU to review bidding documents, contract documents, and tenders to ensure environmental issues are adequately addressed	compliance with environmental management requirements Undertake environmental monitoring and coordination of local community environmental monitoring activities	monitoring and coordination of local community environmental monitoring activities for first year of operation
Commune Supervision Boards (CSBs) and local community members ¹⁰	Involvement in consultation and participation activities to identify and develop subprojects Ability to comment on environmental assessment documentation upon disclosure	Involvement in environmental monitoring activities under the direction of SSTs	Involvement in environmental monitoring activities under the direction of SSTs
Construction contractor	n/a	Prepare detailed Site EMP to meet the Subproject EMP general requirements Allocate adequate resources to meet the requirements and obligations of Site EMP	n/a
Binh Dinh Irrigation Work Exploitation Limited Company	N/a	N/a	Monitoring mitigation measure in the operation phase
LIC Team on environmental safeguard policies	N/a	Implement spot check environmental monitoring at subproject area once every 6 months. Monitoring results will be included in the report which will be sent to CPMU.	N/a
Construction Supervision Consultant	N/a	Implement construction supervision at construction sites every day. Implement environmental monitoring at subproject area every week. Monitoring results will be included in the report which will be sent to PPMU.	N/a

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

5.4 Monitoring and Reporting System

Table 8. Monitoring and Reporting System

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

5.5 EMP Budget

Table 9. EMP Budget

Item	Marginal Costs for Pre-Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
Mitigation				
UXO clearance	In a separated item on detection of UXO	No	No	Included in the contract with a army contractor
Compensation and land clearance	In a separated item on project compensation and resettlement	No	No	Included in other items
Monitoring				
PPMU's Internal monitoring	Included in management cost	Included in the Contracts with the	Local and provincial	Included in contracts or

Item	Marginal Costs for Pre-Construction	Marginal Costs for Construction	Marginal Costs for Operation	Marginal Costs Sub-Total
	of PPMU	Contractor and CMC as well as in PPMU's management cost	budget	other operation capital sources
Community monitoring	Not available (n/a)	Local budget (as in Decision No.80/2005/QĐ-TTg)	Local budget (as in Decision 80/2005/QĐ-TTg)	Local budget
Independent monitoring consultant on environmental safeguard policies	n/a	Included in a separate contract with CPMU	n/a	
Training on capacity enhancement on environmental monitoring capability	n/a		Local budget	n/a
Public disclosure	Defined in consultancy contract on IEE		n/a	Public disclosure
TOTAL <i>(intensify the capability and public disclosure)</i>				

6. PUBLIC CONSULTATION AND DISCLOSURE ACTIVITIES

6.1 Description of Activities to Date

Table 10. Public consultation and public disclosure activities

CONSULTATION METHOD	DETAILS OF ACTIVITIES	
Correspondence and meetings with local authorities (District and Commune PCs, Commune Fatherland Front, Women's Union, Youth Union and others)	Date of correspondence	07 /04/ 2024
	Dates of meetings (if requested)	21-22/04/2014
	Minutes of meeting attached (Yes / No)	Yes
Public meetings	Date(s) held	21-22/04/2014
	Location(s) held	PC's meeting hall and cultural house of Binh Thuan, Tay An and Cat Tan communes and meeting hall of Tan Nghi hamlet - Nhon My commune.

CONSULTATION METHOD	DETAILS OF ACTIVITIES	
	Invitees	Commune PCs, stakeholders, village heads, Young Communist League, Fatherland front, Farmer Association, Women Union of the communes.
	Methods of invitation	Radio announcement and letter, coordinate with Women Union to mobilize women's participation in meetings
	Agenda attached (Yes / No)	Yes
	Minutes of meeting attached (Yes / No)	Yes
	Number of participants	Total have 116 people Man: 89 people Women: 27 people (the list of participants will be closed in the minutes of consultation)

6.2 Outcomes of Public Consultation to Date

Table 11. Results of public consultation

Description of Issue Raised	By Whom?	Required Follow-up Actions?
Detailed design	Local people of Tan Nghi hamlet – Nhon My commune	In the surveying and detailed design period, the consulting firm is expected to coordinate with local authorities to find suitable water inlets. In cases where big housing losses observed due to the channel construction, it is recommended that the Consultants consider re-bending the route to mitigate losses to the locals.
Restoration of construction site	Local people	It is desired that the sites will be restored after completing the construction
Traffic disturb when transporting material on road 636 and commune's roads	Local people	Do not transport materials at rush hours (6 am to 7 am; 11 am -12 pm; 5 pm- 6pm)
Traffic safety on road 636 and commune's roads	Local people	The Contractors are supposed to slow down when transporting materials by the residential area along road 636 and commune's roads. It is necessary to plant construction signposts and speed limit signs
Construction workers cause social disruption and sanitation problems	Vice chair man of Nhon My CPC	It is requested that the workers maintain sanitation and public order; Register temporary residence card for workers;

Description of Issue Raised	By Whom?	Required Follow-up Actions?
		Request workers to collect waste as regulation and ensure that their construction camps are maintained in clean and hygienic conditions.
Dust from construction equipment	Local people	When transporting construction materials, implement strictly dust suppression measures such as watering of exposed surfaces and covering the trucks with canvas;

6.3 Future Public Consultation Activities

Table 12. Proposed community consultation activities

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

7. CONCLUSION AND RECOMMENDATIONS

8. The subproject “Construction of branch canals of Van Phong irrigation scheme” will be implemented by Binh Dinh PPMU under IRDPCP in An Nhon town, Tay Son and Phu Cat districts, Binh Dinh province.
9. An environmental assessment of the project has been carried and the main negative potential environmental impacts of the sub-project during construction and operation stages include:
 - Air pollution from dust or exhaust emissions (CO, NO_x, SO_x, etc). Noise, vibration from construction equipments and vehicles on the road;
 - Dust and noise generated during the transport of material from material stores to the construction sites;
 - Traffic disturb when transporting material, effect on infrastructure system (electricity, road, communication cables), risks of health and safety of local people and construction workers;
 - Waste disposal problems from solid waste generated during construction activities or municipal wastes generated in construction camps;
 - Agriculture wastes (residue of vegetables, pesticide cover, straw of cultivation area) from the boundaries of the upgraded main & primary canal have been focus at the canal bed, obstructing and polluting the flow;
 - Affecting water quality due to the increased quantity of fertilizer or pesticide or chemical substances or waste water;
 - Risks of natural calamity due to Storm & flood occur during rainy season.
10. A range of mitigation and monitoring measures has been developed for the sub-project, which includes the following activities:

Mitigation measures:

 - Measures for mitigating air pollution: During the transport of construction materials, watering the road surface and covering means of transport with canvas. Besides, other measures may include installing wheel washing equipments at construction sites and regularly maintaining vehicles and machines.
 - The Contractors do not transport materials at rush hours (6 am to 7 am; 11 am -12 pm; 5 pm- 6pm) and to be supposed to slow down when transporting materials by the residential area and to plan construction signposts and speed limit signs
 - Provide rubbish bins to store domestic waste at the construction site; request workers not to leave litter; provide containers to store construction waste at construction sites; install sediment fences and/or sediment traps to collect sediment before it enters waterways;
 - During exploitation process, management authority should disseminate and consult the local authority/water users to limit the excessive use of water; establish regulated procedures and detailed water supply plan; update information year by year to inform users, implement dissemination and training on scientific irrigation to the community for understanding and implementation,
 - Avoid deteriorating soil/water quality by fertilizer and pesticide through coordination and involving in agricultural encouraging programs, water management with participation of residents, etc.

Monitoring activities:

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

- The contractor must implement measures to mitigate environmental impacts in residential areas near the construction sites, along the material transportation roads and construction sites, worker's camps ect. Their implementation can be monitored by observing and measuring water quality, air quality and frequency of implementing these measures. Moreover, the contractor must arrange adequate resources to meet general requirements and compulsory regulations on EMP at the construction sites;
- During operation stage, O&M agency (Binh Dinh Irrigation Work Exploitation Limited Company) have to periodically manage water quality according to recent Vietnamese Standards and National Technical Regulations;
- PPMU should intensify the contractor's compliance with environmental regulations on material storage, construction equipment, waste disposal, air quality, dust, noise and vibration to ensure safety for the community during construction stage and operation stage; coordinate with local authorities to formulate and implement EMP.
- PPMU should ensure that subproject design will meet all safety standards on prevention of flooding, storms and other potential natural calamity
- PPMU Coordinate with Agriculture Extension Centre to ensure that farmers are trained on Integrated Pesticide Management (IPM).

Conclusion:

11. The construction of branch canals of Van Phong irrigation scheme subproject, Binh Dinh Province will supply irrigation water for 727.00 ha of agriculture land and improve livelihoods and reduce poverty for local people in the subproject area. It is expected to directly benefit 43,329 people in 4 communes namely Binh Thuan, Tay An, Nhon My and Cat Tan. Thus, the subproject will contribute to promote socio-economic development and modernize rural area;
12. Negative environment impacts caused by the subproject mainly generate during the construction stage. However, these impacts are temporary and they will end when the canals are put into operation. Upon completion, the proposed canals will help supply irrigation water to farmers. On the other hand, it will bring positive impacts to the environment and promote economic development for the subproject area. Thus, based on the Initial Environmental Examination, the consultants and Binh Dinh PPMU would like to recommend as follows:
 - (i) There will not be any significant impacts to the environment and no further environment assessment is necessary.
 - (ii) The IEE of the subproject "Construction of branch canals of Van Phong irrigation scheme" should be approved by authorities so that next steps can be implemented to ensure good progress and project benefits.

8. ANNEXES

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

Annex 1: Photos of implementation of public consultation



Photo 1: Public consultation in Tan Nghi hamlet, Nhon My commune



Photo 2: Public consultation in Binh Thuan commune



Photo 3: Public consultation in Tay An commune



Photo 4: Public consultation in Cat Tan commune

Annex 2: Photos of locations of air quality monitoring



Photo 5: Air quality observation location in residential area at the beginning of the proposed canal N24 in Thuan Hanh hamlet - Binh Thuan commune



Photo 6: Air quality observation location - at material transportation road for canal N24-2 in Tan Le hamlet - Cat Tan commune



Photo 7: Air quality observation location at the intersection of N24-2 and road 636 (Tan Nghi hamlet - Nhon My commune)



Photo 8: Air quality observation location at the intersection of N24-2-2 and road 636 (Tan Nghi hamlet - Nhon My commune)

Annex 3: Other photos



Photo 9: The intersection of proposed canal N24-2-2 and road 636 (Tan Nghi hamlet – Nhon My commune)



Photo 10: The intersection of proposed canal N24-2 and road 636 (Tan Nghi hamlet – Nhon My commune)



Photo 11: The intersection of proposed canal N24-4 and railway to North and South of Vietnam



Photo 12: The intersections of proposed canals N24, N24-5A and commune's road (Tan Le hamlet - Cat Tan commune)



Photo 13: Proposed Hoc Oi borrow pit in Tan Le hamlet, Cat Tan commune



Photo 14: The end of existing main canal N24, Thuan Hanh hamlet, Binh Thuan commune

Annex 4: Public consultation and meeting minutes

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Binh Thuan commune

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

Binh Thuan, ngày 21 tháng 04 năm 2014

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

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 21 tháng 04 năm 2014, tại xã Binh Thuan chúng tôi gồm:

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

- Ông/Bà Vũ Hoàng Lân Chức vụ Tư vấn môi trường
- Ông/Bà Hoàng Hồng Khanh Chức vụ Tư vấn Cầu
- Ông/Bà Đoàn Văn Đình Chức vụ Tư vấn Tài chính

II. Đại diện Ban QLDA tỉnh

- Ông/Bà Lê Đức Tấn Chức vụ C.B. Ban QLDA tỉnh
- Ông/Bà..... Chức vụ.....
- Ông/Bà..... Chức vụ.....

III. Đại diện địa phương

- Ông/Bà Nguyễn Tiến Dũng Chức vụ PC UBND xã
- Ông/Bà Nguyễn Văn Lục Chức vụ C.B. Địa chính
- Ông/Bà..... Chức vụ.....

Nội dung làm việc:

Ban QLDA tỉnh thông qua, trao đổi về chủ trương thực hiện dự án

Tư vấn thiết kế đưa kỹ nội dung cơ bản về triển dự án. Chiều dài, hướng kênh

Chuyên gia tư vấn về Tài chính và GIS, môi trường tham vấn và làm báo xã hội các hộ dân

Ghi nhận ý kiến của lãnh đạo xã, người dân để hoàn thiện biên bản tham vấn


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

Đại diện Ban QLDA tỉnh

Đại diện UBND xã
KT. CHỦ TỊCH
ĐÓNG CHỦ TỊCH

Nguyễn Tiên Dũng

Đại diện tư vấn


Đoàn Văn Dũng

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Bình Thuận, ngày 21 tháng 04 năm 2014

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

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Hệ thống kênh tưới tiêu Van Phong
Xã: Bình Thuận, huyện Tây Sơn, tỉnh Bình Định

I. Thành phần tham dự:

- Ông/Bà. Vũ Hoàng Bảy	Chức vụ. Tư vấn Môi trường
- Ông/Bà. Hoàng Hồng Hải	Chức vụ. Tư vấn Môi trường
- Ông/Bà. Đào Văn Sinh	Chức vụ. Tư vấn Tái định cư
- Ông/Bà. Lê Anh Tấn	Chức vụ. Chủ Ban OCHA tỉnh
- Ông/Bà. Nguyễn Việt Dũng	Chức vụ. PCT UBND xã
- Ông/Bà. Nguyễn Văn Lực	Chức vụ. Cán bộ địa chính
- Ông/Bà.....	Chức vụ.....

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm.....(%), Dân tộc thiểu số.....người, chiếm....%

II. Nội dung

2.1 Các nội dung phổ biến:

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

2.2 Tham vấn cộng đồng:

- Tham vấn các vấn đề giám sát và tham gia của cộng đồng trong các giai đoạn chuẩn bị, thực hiện, vận hành tiểu dự án, các vấn đề về giới và lồng ghép giới, nhóm dễ tổn thương, hộ bị ảnh hưởng nặng...
- Tham vấn các vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

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

III. Ý kiến thảo luận

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

Công tác người dân được tham vấn
đều mong muốn để tham gia nhiều hơn vào
các hoạt động thực hiện dự án.
Về đáp ứng cho các khâu
vấn đề tham gia ban đầu là việc làm
cần thiết để giảm bớt đi dự án. Ban
đầu phụ nữ ủng hộ dự án về
huy động nguồn lực tham gia thực hiện
dự án.

III.2. Các vấn đề về môi trường

Quá trình thực hiện dự án sẽ tác
động đến các môi trường sống và môi
sinh vật địa phương như bụi, tiếng ồn...
Vì vậy, các chủ sở hữu thực hiện dự án cần
có các biện pháp giảm thiểu tác động
đến các môi trường.
Nếu dự án bị công, cần miễn
hoặc thuê đất làm đất thì phải
có đất bù, hỗ trợ cho người dân.

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

Các bên tham vấn của tư vấn thiết kế, kết hợp với quá trình thực địa. Tư vấn thấy rằng, tác động của dự án đến người dân thông qua quá trình tái định cư, ảnh hưởng cây trồng là không lớn.

Người dân thông qua chủ trương thực hiện dự án và mong muốn dự án tiến hành sớm.

Để thực hiện dự án cần tuân thủ theo những quy định liên quan, đảm bảo quyền lợi của các hộ bị ảnh hưởng.

IV. Kết luận

Các bên tham gia đều đồng nhất chủ trương thực hiện dự án và mong muốn dự án tiến hành sớm.

Trong quá trình thi công, các đơn vị liên quan cần chú ý đến các biện pháp giảm thiểu, đảm bảo quyền lợi của các hộ bị ảnh hưởng.

Cuộc họp các bên thống nhất và kết thúc vào lúc ngày 21 tháng 04 năm 2014

Đại diện cộng đồng

Tạ Thị Bích Ngọc

Đại diện Ban QLDA tỉnh



Đại diện UBND xã

KT. CHỦ TỊCH
PHÓ CHỦ TỊCH

Nguyễn Tiến Dũng

Đại diện tư vấn

Đoàn Văn Định

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Bình Thuận, ngày 21 tháng 04 năm 2014

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

DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số)

Tên tiểu dự án: Sửa chữa nâng cấp kênh tưới Van Phong
 Xã: Bình Thuận, huyện: Thy Sơn, tỉnh: Bình Định

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
1	Lý Thị Kim Liên	Nữ	Chươn Hướn		
2	Lý Thị Lê	"	"	Lê	
3	Lý Thị Thuý	"	"	Thuý	
4	Lê Thị Đức	"	"	Đức	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
1	Trần Văn Được	Nam	Thị trấn Thành	[Signature]	
2	Võ Trường Quang	N	"	[Signature]	
3	Phan Chi Thành	N	"	[Signature]	
4	Trần Văn Sĩ	N	"	[Signature]	
5	Nguyễn Hữu Nghĩa	N	"	[Signature]	
6	Võ Văn Mạnh	N	"	[Signature]	
7	Hồ Văn Thanh	N	"	[Signature]	
8	Trần Văn Lâm	N	"	[Signature]	
9	Trần Văn Ích	N	"	[Signature]	
10	Hồ Văn Tâm	N	"	[Signature]	
11	Nguyễn Văn Nỗ	N	"	[Signature]	
12	Lê Đình Cường	N	"	[Signature]	
13	Võ Trường Đam	N	"	[Signature]	
14	Võ Văn Thiện	N	"	[Signature]	
15	Nguyễn Ngọc Tân	N	"	[Signature]	
16	Nguyễn Văn Hồng	N	"	[Signature]	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú

Đại diện cộng đồng
Nh
 Tạ Thị Bích Nhanh

Đại diện UBND xã
 KT. CHỦ TỊCH
 CHỦ TỊCH
Nguyễn Tiến Dũng

Đại diện Ban QLDA tỉnh

Đại diện tư vấn

Đoàn Văn Đình

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Tay An commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Tây An, ngày 21 tháng 4 năm 2014

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

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 21 tháng 4 năm 2014, tại UBND xã Tây An chúng tôi gồm:

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

- | | |
|---------------------------|-------------------------|
| - Ông/Bà Hoàng Hồng Hạnh | Chức vụ Tư vấn GIS |
| - Ông/Bà Dương Đức Chiến | Chức vụ Tư vấn TĐC |
| - Ông/Bà Nguyễn Thu Trang | Chức vụ Tư vấn MĐ tương |

II. Đại diện Ban QLDA tỉnh

- | | |
|---------------------------|-------------------------|
| - Ông/Bà | Chức vụ |
| - Ông/Bà Nguyễn Hữu Thanh | Chức vụ Tư vấn thiết kế |
| - Ông/Bà Nguyễn Văn Lưu | Chức vụ Tư vấn thiết kế |

III. Đại diện địa phương

- | | |
|-------------------------|-----------------------------|
| - Ông/Bà Đặng Xuân Hồng | Chức vụ Chủ tịch UBND |
| - Ông/Bà Võ Thành Khoa | Chức vụ Địa chính xã |
| - Ông/Bà Nguyễn Lê Ái | Chức vụ Chủ tịch hội phụ nữ |

Nội dung làm việc:

- 1> phổ biến thông tin về dự án kênh tưới Van Phong
- 2> tham vấn về tài chính, môi trường và chi trả với các hộ BAH tại xã Tây An
- 3> ghi nhận ý kiến của các hộ BAH và hộ hưởng lợi thuộc xã Tây An
- 4> tham vấn về nhu cầu đào tạo của người dân liên quan đến dự án

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

Đại diện Ban QLDA tỉnh



Ngô Thành Nhân

Đại diện tư vấn

S. Kiên
Đường Đức Chiến

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Tây An, ngày 21 tháng 4 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP

CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG

BIÊN BẢN HỌP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Tiểu dự án Kênh N 2p - Hệ thống Kênh tưới Van Phong
Xã Tây An, huyện Tây Sơn, tỉnh Bình Định

I. Thành phần tham dự:

- Ông/Bà Hoàng Hồng Hạnh	Chức vụ Tư vấn Công
- Ông/Bà Dương Đức Chiến	Chức vụ Tư vấn TĐC
- Ông/Bà Nguyễn Hữu Thành	Chức vụ Cán bộ P.P.M.U
- Ông/Bà Nguyễn Văn Lúa	Chức vụ Tư vấn Thiết kế
- Ông/Bà Đặng Xuân Hoàng	Chức vụ Chủ tịch UBND
- Ông/Bà Nguyễn Lê Ái	Chức vụ Chủ tịch Hội phụ nữ
- Ông/Bà	Chức vụ

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm.....(%), Dân tộc thiểu số.....người, chiếm....%

II. Nội dung

2.1 Các nội dung phổ biến:

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

2.2 Tham vấn cộng đồng:

- Tham vấn các vấn đề giám sát và tham gia của cộng đồng trong các giai đoạn chuẩn bị, thực hiện, vận hành tiểu dự án, các vấn đề về giới và lồng ghép giới, nhóm dễ tổn thương, hộ bị ảnh hưởng nặng...
- Tham vấn các vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

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

III. Ý kiến thảo luận

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

- 1) Quá trình tham gia của các hộ B.A.H và hộ hưởng lợi đều nhận tư vấn và mong muốn giám sát quá trình thực hiện dự án tại địa phương.
- 2) Ban giám sát cộng đồng mong muốn tham gia và được đào tạo để có thể giám sát tốt dự án.
- 3) Hộ phụ nữ về các điểm họp cũng mong muốn dự án được thực hiện nhanh chóng để phục vụ tốt cho các diện tích đất nông nghiệp.
- 4) Các nhà thầu nên tạo điều kiện thuê lao động tại địa phương đối với cả nam và nữ.

III. 2. Các vấn đề về môi trường

- 1) Trong quá trình thi công, có thể sẽ làm ảnh hưởng đến môi trường như: tiếng ồn, bụi trong không khí và có thể gây tai nạn giao thông hoặc tình trạng mất an ninh trật tự do công nhân thi công mang lại.
- 2) Cần phải lưu trữ mặt bằng lại như cũ cho các hộ B.A.H.

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

- 1.) Lãnh đạo địa phương và các hộ B.A.H đều mong muốn dự án thực hiện. Do đó, nếu thu hồi một phần tài sản, đất đai và cây cối thì đều thống nhất, đang tích ứng hộ.
- 2.) Nếu trong quá trình thi công, gây ảnh hưởng đến tài sản, đất đai, hoa màu thì yêu cầu nhà thầu phải đền bù cho các hộ.
- 3.) Yêu cầu nhà thầu thực hiện vào sau thời gian thu hoạch để tránh thiệt hại cho các hộ B.A.H.
- 4.)

IV. Kết luận

- 1.) Các bên nhà tài và mong muốn dự án được thực hiện tại địa phương. Trong thời gian sớm nhất.
- 2.) Lãnh đạo địa phương và hộ B.A.H ý mong muốn được đầu tư, tập huấn để nâng cao nhận thức, nhằm tham gia dự án tốt hơn.
- 3.) Lãnh đạo địa phương nhất trí và cam kết hỗ trợ dự án với mức độ cao nhất.

Cuộc họp các bên thống nhất và kết thúc vào lúcngày.....tháng.....năm 2014

Đại diện cộng đồng



Đại diện Ban QLDA tỉnh

Đại diện tư vấn

S. Hiền
Dương Đức Chính

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Tây...A.M..., ngày 21 tháng 4 năm 2014

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

DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số)

Tên tiểu dự án: Hố thặng kênh tưới Van Phong
 Xã Tây An, huyện Tây Sơn, tỉnh Bình Định

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	Trình Văn Thừa		Bí thư UBND xã		
	Nguyễn Văn Phú		phó BT UBND xã	Phu	
	Nguyễn Văn Lăng		CT cứu chữa bệnh	Phu	
	Võ Thành Nhân		phó CT UBND xã	Phu	
	Đặng Xuân Hùng		Chủ tịch UBND xã	Phu	
	Trình Văn Nhân		xã đội trưởng	Phu	
	Nguyễn Văn Thành		Bí thư Đoàn	Phu	
	Bùi Văn Chính		CT hội nông dân	Phu	
	Võ Thành Khoa		Đội trưởng xã	Phu	
	Phạm Vĩnh Phú		Đội trưởng xã	Phu	
	Đỗ Văn Năm		Xã Đoàn	Phu	
	Huỳnh Đức		Tư pháp xã	Phu	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	Phạm Giáp		Đại Trại	[Signature]	
	Nguyễn Xuân Lâm		Đại Trại	[Signature]	
	Lê Dũng		Đại Trại	[Signature]	
	Lê Văn Xanh		Đại Trại	[Signature]	
	Nguyễn Bích		Đại Trại	[Signature]	
	Huyền Ngọc Thanh			[Signature]	
	Đỗ Văn Huy			[Signature]	
	Đỗ Hồng Xanh			[Signature]	
	Trình Vĩnh Hòa			[Signature]	
	Nguyễn Ngọc Hùng			[Signature]	
	Tên Nguyễn Thị Bích Hằng			[Signature]	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	Trình Thị Hồng Hiền		Tại Chỉnh xã		
	Hồ Thị Thu Hương		Van phong		
	Nguyễn Thị Ly		Đại Trù		
	Tương Thị Thuý Hằng		Vp Đàng Mỹ		
	Nguyễn Thị Vân			Liên	
	Nguyễn Thị Phương			Phương	
	Nguyễn Thị Tuyết Nhung			nhung	
	ĐS Thị Duy				

Đại diện cộng đồng

Đại diện UBND xã

 Phó Chủ tịch
 Phó Chủ tịch

 Tô Thành Nhân

Đại diện Ban QLDA tỉnh

Đại diện tư vấn


 Dương Đức Chiến

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

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Cat Tan....., ngày 22 tháng 4 năm 2014

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

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 22 tháng 4 năm 2014, tại Xã Cat Tan chúng tôi gồm:

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

- | | |
|---------------------------|----------------------------|
| - Ông/Bà Hoàng Hồng Hạnh | Chức vụ Tư vấn Giới |
| - Ông/Bà Dương Đức Chiến | Chức vụ Tư vấn T.ĐC |
| - Ông/Bà Nguyễn Thu Trang | Chức vụ Tư vấn M.Đ. Trường |

II. Đại diện Ban QLDA tỉnh

- | | |
|------------------------|-------------------------|
| - Ông/Bà Lê Đình Tân | Chức vụ Ban QLDA |
| - Ông/Bà Lê Đình Tân | Chức vụ Tư vấn thiết kế |
| - Ông/Bà Nguyễn Văn Vũ | Chức vụ Tư vấn thiết kế |

III. Đại diện địa phương

- | | |
|-------------------------|---------------------|
| - Ông/Bà Trần Công Tông | Chức vụ Phó CT UBND |
| - Ông/Bà | Chức vụ |
| - Ông/Bà | Chức vụ |

Nội dung làm việc:

- 1) Tư vấn thiết kế cung cấp vị trí, địa điểm quy mô thực hiện dự án tại địa phương
- 2) Tham vấn và trình bày về các chính sách an toàn về tài chính, cơ, môi trường, xã hội và sự tham gia của cộng đồng thuộc dự án
- 3) Chỉ nhận những ý kiến của lãnh đạo địa phương và các hộ B.A.H. đối với việc thực hiện dự án

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

Đại diện Ban QLDA tỉnh

Đại diện UBND xã



Trần Công Công

Đại diện tư vấn



Nguyễn Thị Thu Trang

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Cát Tân....., ngày 22 tháng 4 năm 2014

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

BIÊN BẢN HỢP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Kênh Tưới Van Phong - N.24
Xã: Cát Tân....., huyện: Phú Cát....., tỉnh: Bình Định

I. Thành phần tham dự:

- | | |
|--------------------------------|-------------------------------|
| - Ông/Bà: Hoàng Hồng Hinh..... | Chức vụ: Tư vấn CTRH..... |
| - Ông/Bà: Dương Đức Cường..... | Chức vụ: Tư vấn TĐ.C..... |
| - Ông/Bà: Lê Đình Tân..... | Chức vụ: Cán bộ PPM.U..... |
| - Ông/Bà: Lê Đình Tân..... | Chức vụ: Tư vấn thiết kế..... |
| - Ông/Bà: Phan Công Trí..... | Chức vụ: PCT UBND..... |
| - Ông/Bà..... | Chức vụ..... |
| - Ông/Bà..... | Chức vụ..... |

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm....(%) , Dân tộc thiểu số.....người, chiếm....%

II. Nội dung

2.1 Các nội dung phổ biến:

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

2.2 Tham vấn cộng đồng:

- Tham vấn các vấn đề giám sát và tham gia của cộng đồng trong các giai đoạn chuẩn bị, thực hiện, vận hành tiểu dự án, các vấn đề về giới và lồng ghép giới, nhóm dễ tổn thương, hộ bị ảnh hưởng nặng...
- Tham vấn các vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

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

III. Ý kiến thảo luận

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

- 1) Các hộ nhất trí tham gia vào ban G.S.CĐ để có thể giám sát công đồng tốt hơn.
- 2) Nên nâng cao tập huấn, đào tạo cho các thành viên ban G.S.CĐ để có đủ năng lực giám sát công đồng.
- 3) Hội phụ nữ nhất trí ủng hộ Dự án và sẽ huy động thành viên trong Hội tích cực tham gia vào Dự án.

III. 2. Các vấn đề về môi trường

- 1) Trong quá trình thực hiện Dự án chắc chắn ảnh hưởng tới môi trường tại địa phương: bụi, tiếng ồn, có thể tăng khả năng tai nạn giao thông và ảnh hưởng tới quá trình sản xuất hoạt động của địa phương.
- 2) Trong quá trình thi công, do vị trí thi công nên có các biện pháp giảm thiểu thiểu hại và ô nhiễm môi trường: che bụi, lưới nước tưới, vận hành.
- 3) N

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

- 1) Lãnh đạo địa phương và các hộ tại các thôn BAH nhất trí ủng hộ dự án thực hiện tại địa phương.
- 2) Dự án thực hiện sẽ ảnh hưởng tốt quá trình sinh hoạt tại địa phương, tuy nhiên do đây là công trình hướng lợi, do đó các hộ đều nhất trí ủng hộ việc thực hiện dự án tại địa phương.
- 3) Việc thu hồi đất, tài sản, cây cối hoặc mẫu nên thực hiện đền bù theo đúng qui định.
- 4) Nên thực hiện việc thi công trong giai đoạn sau mùa vụ thu hoạch, tránh thiệt hại cho việc sản xuất của các hộ BAH.
- 5) Những tài sản BAH tạm thời cần phải đền bù cho các hộ BAH.

IV. Kết luận

- 1) Lãnh đạo địa phương và các hộ BAH đều nhất trí thực hiện dự án tại địa phương.
- 2) Các hộ BAH mong muốn dự án được thực hiện trong thời gian sớm nhất để phục vụ cho đời sống, sản xuất của người dân.
- 3) Ban C.S.CĐ của địa phương cam kết tham gia giám sát việc thực hiện dự án. Bên cạnh đó, hộ phụ nữ cũng sẽ duy động thành viên tham gia.
- 4) Nên hạn chế những ảnh hưởng về môi trường để giảm thiểu ~~đến~~ thiệt hại cho môi trường.

Cuộc họp các bên thống nhất và kết thúc vào lúc 10h ngày 22 tháng 4 năm 2014

Đại diện cộng đồng




Đại diện UBND xã

KT CHỦ TỊCH
PHÓ CHỦ TỊCH

Trần Công Công

Đại diện Ban QLDA tỉnh

Đại diện tư vấn


Nguyễn Thị Thu Trang

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Cái Tân, ngày 22 tháng 4 năm 2014

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

DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số)

Tên tiểu dự án: Hệ thống kênh Vàm Phong N.24
 Xã: Cái Tân, huyện Phù Cát, tỉnh Bình Định

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
1	Nguyễn Xuân Thủy	Nam	Hòa Đông		
2	Trần Phước Thiện Nguyễn I	Nam	Hòa Đông r		
3	Đặng Quang Tân	Nam	Tân Hòa		
4	Trương Văn Có	nt	Tân Hòa		
5	Nguyễn Ngọc Anh	nt	Hữu Hạnh		
6	Ngô Văn Lành	nt	Tân Hòa		
7	Trần Bá Thu	nt	Tân Hòa		
8	Trần Văn Thảo	nt	Tân Hòa		
9	Võ Văn Sáu	nt	Tân Hòa		
10	Đỗ Văn Giảng	nt	Tân Lễ		
11	Hồ Văn Châu	nt	Tân Lễ		
12	Nguyễn Minh Huệ	nt	Tân Hòa		
13	Khuyết Văn Minh	nt	Tân Hòa		
14	Nguyễn Thanh Phong	nt	Tân Hòa		
15	Lê Đức Có	nt	Tân Hòa		
16	Lương Văn Thuận	nt	Tân Lễ		

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
17	Nguyễn Thị Quy	Nữ	Hoa Dong	Quy	
18	Võ Đình Tùng	Nam	Tân Lộ	Ung	
19	Võ Văn Danh	Nam	Tân Lộ	Thanh	
20	Nguyễn Văn Đám	Nam	Hữu Hạnh	Đám	
21	Hồ Lục	Nam	Hoa Dong	huc	
22	Nguyễn Ngọc Phượng	Nữ	Hữu Hạnh	Phu	
23	Phạm Thị Lệ	N	Hữu Hạnh	le	
24	Nguyễn Thái Sơn	Nam	Hữu Hạnh	Son	
25	Nguyễn Ngọc Anh	Nam	Tân Hòa	Anh	
26	Lê Ngọc Uý	Nữ	Tân Hòa	Uý	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
27	Phạm Thị Thu Dung	Nữ	Tân Lễ	<i>Thư</i>	
28	Phạm Thị Bích Ngọc	Nữ	Tân Lễ	<i>Bl</i>	
29	Nguyễn Thị Thanh Nhân	Nữ	Tân Lễ	<i>Thư</i>	
30	Phạm Thị Hằng	Nữ	Tân Hòa	<i>Uttar</i>	

Đại diện cộng đồng

Đại diện UBND xã

 KT. CHỦ TỊCH
 THỦ CHỦ TỊCH
Trần Công Công

Đại diện Ban QLDA tỉnh

Đại diện tư vấn

Nguyen Thi Thu Trang

Meeting minutes at public consultation and lists of attendance in the public consultation meeting at Nhon My commune

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Nhon My, ngày 22 tháng 04 năm 2014

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

BIÊN BẢN LÀM VIỆC

Hôm nay, ngày 22 tháng 04 năm 2014, tại xã Nhon My chúng tôi gồm:

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

- Ông/Bà Vũ Hoàng Lân, Chức vụ Tư vấn Môi trường
- Ông/Bà Đoàn Văn Đình, Chức vụ Tư vấn Tài chính
- Ông/Bà Hoàng Hồng Hải, Chức vụ Tư vấn Cầu

II. Đại diện Ban QLDA tỉnh

- Ông/Bà Lê Xuân Sơn, Chức vụ CP Ban QLDA tỉnh
- Ông/Bà Lê Đình Tân, Chức vụ CB Ban QLDA tỉnh
- Ông/Bà, Chức vụ

III. Đại diện địa phương

- Ông/Bà Trần Anh Tâm, Chức vụ PCT UBND xã
- Ông/Bà Hồ Thị Diệu, Chức vụ CT Hội Phụ nữ xã
- Ông/Bà, Chức vụ

Nội dung làm việc:

1. Tư vấn thiết kế dự án quy mô, vị trí các hạng mục công trình từ đầu tư đến đầu tư ban đầu.
2. Đảm bảo vấn đề tài nguyên và chất lượng an toàn bao gồm môi trường, tài chính, giới và sự tham gia của cộng đồng.
3. Trao đổi thảo luận rõ ghi nhận các ý kiến đóng góp và chỉ đạo để quyền và quyền dân địa phương.

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

Đại diện Ban QLDA tỉnh

Đại diện UBND xã
KT. CHỦ TỊCH
PHÓ CHỦ TỊCH
Trần Anh Tân



Đại diện tư vấn

[Handwritten signature]
Đoàn Văn Anh

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Nhơn Mỹ, ngày 22 tháng 04 năm 2014

DỰ ÁN PHÁT TRIỂN NÔNG THÔN TỔNG HỢP

CÁC TỈNH MIỀN TRUNG - KHOẢN VAY BỔ SUNG

BIÊN BẢN HỢP THAM VẤN CỘNG ĐỒNG

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

Tên tiểu dự án: Lũ Hồng Bình trên Van Phong
Xã: Nhơn Mỹ, huyện: TX. An Nhơn, tỉnh: Bình Định.

I. Thành phần tham dự:

- Ông/Bà <u>Vũ Hoàng Liên</u>	Chức vụ: <u>Tư vấn Môi trường</u>
- Ông/Bà <u>Đoàn Văn Anh</u>	Chức vụ: <u>Tư vấn Tái định cư</u>
- Ông/Bà <u>Hoàng Hồ Hải</u>	Chức vụ: <u>Tư vấn Giới</u>
- Ông/Bà <u>Lê Xuân Sơn</u>	Chức vụ: <u>CTD Ban QLDA tỉnh</u>
- Ông/Bà <u>Lê Đình Tấn</u>	Chức vụ: <u>CB Ban QLDA tỉnh</u>
- Ông/Bà <u>Trần Anh Tấn</u>	Chức vụ: <u>PCI UBND xã</u>
- Ông/Bà <u>Hồ Thị Diệu</u>	Chức vụ: <u>CT HĐ Phụ nữ xã</u>

- Đại diện những hộ bị ảnh hưởng người, trong đónữ, chiếm.....(%) , Dân tộc thiểu số.....người, chiếm.....%

II. Nội dung

2.1 Các nội dung phổ biến:

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

2.2 Tham vấn cộng đồng:

- Tham vấn các vấn đề giám sát và tham gia của cộng đồng trong các giai đoạn chuẩn bị, thực hiện, vận hành tiểu dự án, các vấn đề về giới và lồng ghép giới, nhóm dễ tổn thương, hộ bị ảnh hưởng nặng...
- Tham vấn các vấn đề về môi trường, tác động môi trường tiềm năng của dự án bao gồm tác động lên môi trường tự nhiên và xã hội của khu vực dự án và những biện pháp giảm thiểu các tác động tiêu cực;

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

III. Ý kiến thảo luận

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

Các hộ dân nhất trí ủng hộ dự án và mong muốn được tham gia vào dự án nhiều hơn. Hộ phụ nữ tham gia vào công tác tuyên truyền về dự án và sẽ vào dự án nếu có thiết chế chưa sẵn sàng ủng hộ dự án. Ban giám sát công trình đề nghị được tập huấn để nâng cao khả năng tham gia vào dự án và chất lượng giám sát công tác đất đai trong giai đoạn thiết kế, tư vấn cần tham vấn hộ phụ nữ kỹ lưỡng để thiết kế cho phù hợp.

III. 2. Các vấn đề về môi trường

Người dân đề nghị nhà thầu sẽ thu dọn sạch sẽ và hoàn trả mặt bằng lại thi công xong. Đơn đăng DT 636 nhỏ hẹp nên cần chú ý đến việc đi an toàn giao thông. Có che phủ đất xe vận chuyển. Nếu mặt đất bị biến đổi cần thi phải hoàn trả lại hoàn chỉnh. Đảm bảo an ninh trật tự trên địa bàn. Nhìn chung các tác động môi trường là nhỏ và tạm thời, có thể giảm thiểu được.

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

Lãnh đạo địa phương và các hộ BAH là
điều hợp nhất. Chỉ trong thực hiện dự án
trong quá trình thi công, tiến hành di dời,
di dời sẽ ảnh hưởng đến một phần đất
nông nghiệp và cây cối (tạm thời).
Người dân yêu cầu thực hiện việc thi
công làm giải quyết mùa vụ thu hoạch,
tránh thiệt hại đến sản xuất, mùa màng
của người dân.

IV. Kết luận

Chủ quyền địa phương có người dân sống
nhất định lưu lại và có mong muốn dự án
sớm tiến hành.

Ban giám sát địa phương cần tiếp tục tham gia
vào dự án, đảm bảo tiêu chí xã hội và tham gia
các nhà thầu thi công thực hiện tốt các
biện pháp giảm thiểu tác động đến môi trường
lối đi, xã hội khi thực hiện dự án.

Cuộc họp các bên thống nhất và kết thúc vào lúc ngày 22 tháng 01 năm 2014

Đại diện cộng đồng


Hs. Thị Diệu



Đại diện UBND xã

KI. CHỦ TỊCH
PHÓ CHỦ TỊCH


Trần Anh Tấn

Đại diện Ban QLDA tỉnh

Đại diện tư vấn



Đỗ Văn Việt

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM

Độc lập – Tự do – Hạnh phúc

Nhơn Mỹ, ngày 22 tháng 01 năm 2014

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

KHOẢN VAY BỔ SUNG

DANH SÁCH ĐẠI BIỂU THAM DỰ CUỘC HỌP

(Tham vấn cộng đồng về chính sách an toàn: Môi trường, Tái định cư, Giới và Dân tộc thiểu số)

Tên tiểu dự án: Lê Hồng Canal trên Dãy Phong
 Xã: Nhơn Mỹ, huyện TX: An Nhơn, tỉnh: Bình Định

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	Hồ Thị Diệu	Nữ	Tân Nghi, Nhơn Mỹ		
	Nguyễn Thị Hằng	Nữ	Tân Nghi, Nhơn Mỹ	Hằng	
	Lê Thị Hương	✓	Tân Nghi, Nhơn Mỹ	Hương	
	Lê Thị Hải	✓		Hải	
	Lê Thị Ngọc Liên	✓		Liên	
	Trần Thị Như	✓		Nguyễn	
	Nguyễn Thị Cảnh	✓		Cảnh	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	TRƯỜNG NGỌC THÁI	Nam	Tân Nghi	<u>ca</u>	
	TRƯỜNG VĂN TÝ	Nam		Tý	
	TRẦN THẾ ĐIỀU			<u>Điền</u>	
	Nguyễn Cao			Cao	
	Nguyễn Văn Châu			Châu	
	Nguyễn Văn Tình			Tình	
	Nguyễn Hữu Tài			Tài	
	Nguyễn Văn Thành Hưng			Hưng	
	Nguyễn Như Ngọc			Ngọc	
	Nguyễn Ngọc Thành			Thành	
	Nguyễn Văn Hoàng			Hoàng	
	Phùng Văn Quang			Quang	
	Nguyễn Ngọc Thiện			Thiện	
	Nguyễn Văn Phú			Phú	
	TRƯỜNG ĐÌNH HÂN			Hân	
	Lê Phong			Phong	
	Lê Văn Nghĩa			Nghĩa	
	Nguyễn Văn Đạt			Đạt	
	Phan Văn Trường			Trường	
	Nguyễn Kiên			Kiên	
	Nguyễn Văn Thịnh			Thịnh	
	Nguyễn Văn Hoàng			Hoàng	
	Nguyễn Thái Chân			Chân	
	Lê Bá Sơn			Sơn	
	Nguyễn Văn Biên			Biên	

STT	Họ và tên	Giới tính	Địa chỉ	Ký tên	Ghi chú
	Rãn Chanh Nghi	Nam	Tân Nghi		
	Nguyễn Văn Đăng	N	"		
	Nguyễn Văn Cường	N	"		

Đại diện cộng đồng

Hồ Thị Diệu

Đại diện UBND xã

Phó Chủ tịch
 Trần Anh Tân

Đại diện Ban QLDA tỉnh

Đại diện tư vấn

Đoàn Văn Bình

Annex 5: Data Source

1. PPMU of Binh Dinh province, Subproject Investment Report (SIR) of construction of branch canals of Van Phong irrigation scheme, June 2014.
2. PPMU of Binh Dinh province, Basic Design Explanation of construction of branch canals of Van Phong irrigation scheme subproject, June 2014.
3. Department of Natural Resource and Environment of Binh Dinh province, Report on Environmental Status of Binh Dinh province, 2013.
4. Binh Thuan Commune People's Committee, Annual Report on Social Economy, December 2013.
5. Tay An Commune People's Committee, Annual Report on Social Economy, December 2013.
6. Nhon My Commune People's Committee, Annual Report on Social Economy, December 2013.
7. Cat Tan Commune People's Committee, Annual Report on Social Economy, December 2013.