Environmental and Social Monitoring Report

Semi-Annual Report December 2016

Viet Nam: Central Regions Rural Water Supply and Sanitation Sector Project

WATER SUPPLY AND SANITATION OF NGAN THUY AND SON THUY COMMUNES AND LE NINH FARMTOWN - LE THUY DISTRICT - QUANG BINH PROVINCE

Prepared by The Joint Venture of CDM International Inc., Nippon Koei Co. Ltd. and Vinaconsult JSC for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 2 December 2016)

Currency unit – dong (VND) VND1.00 = \$0000440 \$1.00 = VND22714

ABBREVIATIONS

ADB – Asian Development Bank AHs – affected households APs – Affected Persons

CARC – Compensation Assistance Resettlement Committee
CSC – Design-Build Construction Supervision Consultant

CPC – Commune People's Committee
CPMU – Central Project Management Unit
CVWU – Communal Vietnam Women's Union

D&B - Design and Build

DARD – Department of Agriculture and Rural Development, Provincial DONRE – Department of Natural Resources and Environment, Provincial

DPC – District People's Committee

EARF – Environmental Assessment and Review Framework

EC – Environmental Protection Commitment
EMP – Environmental Management Plan
EMOP – Environmental Monitoring Plan

EO – Environmental Officer
FS – Feasibility Study
GoV – Government of Vietnam

HHs – Households

IEE – Initial Environmental Examination

LARC – Land Acquisition and Resettlement Completion Report

LARP – Land Acquisition and Resettlement Plan

lpcd – Litters per capita per day

MARD – Ministry of Agriculture and Rural Development

MOH – Ministry of Health (BYT)

MONRE – Ministry of Natural Resources and Environment (BTNMT)

MOU – Memorandum of Understanding

NCERWASS – National Centre for Rural Water Supply and Environmental Sanitation

NGO – Non-governmental Organization

NOL – No Objection Letter

O&M - Operation and Maintenance
ODA - Official Development Assistance
OHS - Occupational Health and Safety

OU – Operational Unit

PCERWASS - Provincial Centre for Rural Water Supply and Environmental Sanitation

PIA - Project Implementation Assistance
PPC - Provincial People's Committee
PPMU - Provincial Project Management Unit
PVWU - Provincial Vietnam Women's Union
REA - Rapid Environmental Assessment

SAR – Subproject Appraisal Report

SIEE – Summary Initial Environmental Examination

SSO – Subproject Site Office

VND – Vietnam Dong

VWU – Vietnam Women's Union

WSCC – Water and Sanitation Commune Committee

WTP – Water Treatment Plant

NOTE

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

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MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT

NATIONAL CENTRE FOR RURAL WATER SUPPLY AND ENVIRONMENTAL SANITATION

CENTRAL REGION RURAL WATER SUPPLY AND SANITATION SECTOR PROJECT

{ADB Loan No. 2609-VIE (SF)}

Safeguards Monitoring Report JANUARY ÷ JUNE 2016

WATER SUPPLY AND SANITATION OF

NGAN THUY AND SON THUY COMMUNES AND LE NINH
FARMTOWN - LE THUY DISTRICT - QUANG BINH PROVINCE

Consulting Services For Project Implementation Assistance

The Joint Venture of CDM International Inc., Nippon Koei Co. Ltd. and Vinaconsult JSC

CENTRAL REGION RURAL WATER SUPPLY AND SANITATION SECTOR PROJECT

{ADB Loan No. 2609-VIE(SF)}

Safeguards Monitoring Report JANUARY ÷ JUNE 2016

WATER SUPPLY AND SANITATION OF

NGAN THUY AND SON THUY COMMUNES AND LE NINH
FARMTOWN - LE THUY DISTRICT - QUANG BINH PROVINCE

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This report has been prepared based on a combination of information provided by others and by the PIA Consultant. The PIA Consultant has to the extent reasonably possible validated and verified the accuracy of the information in the reports and appendices. To the best of the PIA Consultant's belief and knowledge, the included information is reasonably accurate and correct.

The Joint Venture of CDM International Inc., Nippon Koei Co. Ltd. and Vinaconsult JSC

October 2016

Internal Quality Control

| Project | Central Region Rural Water Supply and Sanitation Sector |
|-------------------|---|
| | Project |
| Project No. | ADB Loan No. 2609-VIE (SF) National Centre For Rural Water Supply And Environmental |
| Client | Sanitation |
| Classification | Safeguards Monitoring Report |
| Cidsification | Safeguards Monitoring Report Jan÷ Jun 2016 for Water Supply and |
| Name of report | Sanitation Subproject of Ngan Thuy, Son Thuy Communes and Le |
| | Ninh farmtown, Le Thuy District, Quang Binh Province |
| To '1 | VIE 2609 Le Thuy QB Safeguards Monitoring Report Jan÷ Jun |
| File name | 2016EN |
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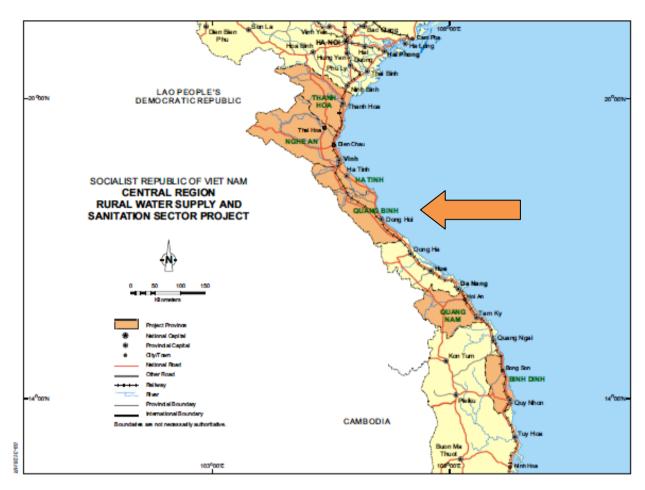


Figure 1 Location map of six Project Provinces of the central coastal region of Vietnam.

iii

Preface

The Government of Vietnam and the Asian Development Bank (ADB) have agreed to implement the Central Region Rural Water Supply and Sanitation Sector Project (Project) scheduled to be completed by 31 December 2016. The Project has a total budget of US\$ 50 million and is expected to provide access to clean water and hygienic sanitation for about 200,000 rural people in 33 communes in the six coastal central region provinces of Vietnam: Thanh Hoa, Nghe An, Ha Tinh, Quang Binh, Quang Nam and Binh Dinh.

The Loan Agreement was signed on 2nd February 2010. On the 26th July 2011, the National Centre for Rural Water Supply and Environmental Sanitation (NCERWASS) of the Ministry of Agriculture and Rural Development (MARD) signed a Contract for Consulting Services for Project Implementation Assistance with CDM International Inc. in a joint venture with Nippon Koei Co. Ltd and national consultant Vinaconsult JSC (PIA Consultant). The PIA Consultant mobilized its team members on 25th August 2011.

This Safeguards Monitoring Report - January÷ June 2016 covers main findings of the monitoring of safeguards issues of operation activities carried out during the reporting period from January to the end of June 2016. This report is based on review of quarterly records of the Provincial Project Management Unit (PPMU), desk review and observations made by PIA Consultant during supervision missions fielded in March 17-20, 2016 and May 30 - June 3, 2016 to the Subproject area.

List of Abbreviations

ADB Asian Development Bank
AH Affected Household
AP Affected Person

CARB Compensation Assistance Resettlement Committee
CSC Design-Build Construction Supervision Consultant

CPC Commune People's Committee
CPMU Central Project Management Unit
CVWU Communal Vietnam Women's Union

D&B Design and Build

DARD Department of Agriculture and Rural Development, Provincial

DPC District People's Committee

EARF Environmental Assessment and Review Framework

EC Environmental Protection Commitment
EIA Environmental Impact Assessment
EMOP Environmental Monitoring Plan
EMP Environmental Management Plan

EO Environmental Officer **FS** Feasibility Study

GoV Government of Vietnam

IEE Initial Environmental Examination
IRP Income Restoration Program
lpcd liters per capita per day

LARC Land Acquisition and Resettlement Completion Report

LARP Land Acquisition and Resettlement Plan

MARD Ministry of Agriculture and Rural Development

MOH Ministry of Health

MONRE Ministry of Natural Resources and Environment

MOU Memorandum of Understanding

NCERWASS National Centre for Rural Water Supply and Environmental Sanitation

NGO Non-governmental Organization
O&M Operation and Maintenance
ODA Official Development Assistance
OHS Occupational Health and Safety

OU Operating Unit

PCERWASS Provincial Centre for Rural Water Supply and Environmental Sanitation

PIA Project Implementation Assistance
PIB Project Information Booklet
PPC Provincial People's Committee
PPE Personal Protective Equipment
PPMU Provincial Project Management Unit

Project Central Region Rural Water Supply and Sanitation Sector Project

PVWU Provincial Vietnam Women's Union

٧

REA Rapid Environmental Assessment RWSS Rural Water Supply and Sanitation

SAR Subproject Appraisal Report

SIEE Summary Initial Environmental Examination

SSO Subproject Site Office

Subproject Le Thuy District, Quang Binh Batch-2Subproject

VND Vietnam Dong

VWU Vietnam Women's Union

WSCC Water and Sanitation Commune Committee
WSSS Water Supply and Sanitation Subproject

WTP Water Treatment Plant

Contents

Preface

List of Abbreviations

| 1 | INTRODUCTION AND PROJECT OVERVIEW | 1 |
|-----|--|---------|
| 1.1 | Introduction | 1 |
| 1.2 | Subproject Overview and Progress | 2 |
| 2 | ENVIRONMENTAL PERFORMANCE MONITORING | 3 |
| 2.1 | EMP/EMoP Implementation and Compliance | 3 |
| | 2.1.1 EMP/EMoP Implementation by D&B Contractor | |
| | 2.1.2 EMP/ EMoP Implementation by Operating Unit | |
| 2.2 | Environmental Monitoring by CSC/PPMU | |
| 2.3 | Monitoring Activities Carried out by PIA Consultant | |
| 2.4 | Key Issues for Further Actions | 3 |
| 3 | INVOLUNTARY RESETTLEMENT PERFORMANCE MONITORING | 6 |
| 3.1 | Compliance with RP Requirements | 6 |
| 3.2 | Resettlement Monitoring by PPMU | |
| 3.3 | Monitoring Activities carried out by PIA Consultant | 9 |
| 3.4 | Key Issues for Further Action | 9 |
| 4 | Ethnic Minority DEVELOPMENT PERFORMANCE MONITORING | 9 |
| 4.1 | Ethnic Minority Implementation and Compliance | 9 |
| 4.2 | EM Monitoring Activities Carried out by PPMU/WSCC and PIA Consultant | 11 |
| 4.3 | Key Issues for Further Actions | 12 |
| 5 | OCCUPATIONAL HEALTH AND SAFETY (OHS) PERFORMANCE MONITO | ORING12 |
| 5.1 | OHS for Workers | 12 |
| 5.2 | Public Safety | 12 |
| 6 | INFORMATION DISCLOSURE AND CAPACITY BUILDING | 13 |
| 6.1 | Public Consultations, Meetings and Information Disclosure | 13 |
| | 6.1.1 Environmental Public Consultation and Information Disclosure | |
| | 6.1.2 Resettlement Public Consultation and Information Disclosure | 13 |
| 6.2 | Training – Capacity Building | |
| | 6.2.1 Environment | |
| | 6.2.2 Resettlement | 14 |

| 6.3 6.4 | Press/Media Releases IEC Material Development/Production | |
|---|--|--|
| 7 | GRIEVANCE REDRESS MECHANISM | 15 |
| 7.1 7.2 | Environment | |
| 8 | CONCLUSION AND RECOMMENDATIONS | 15 |
| 8.1 8.2 8.3 | EMP/EMoP Implementation | 15 |
| List of | f Figures | |
| Figure Figure Figure | SIEE disclosure at Ngan Thuy CPC (1) (May 2015) | 42 42 43 43 43 44 plan 44 45 |
| Table Table Table Table Table Table Table Table | Basic Data of Le Thuy Subproject | 3 7 9 11 |
| Annex Annex Annex | x 1 Subproject Compliance with EMP Requirements x 2 2 nd Public Consultation Minute | |

Safeguards Monitoring Report Jan ÷Jun 2016 Le Thuy district, Quang Binh province viii

Annex 4 IEE Addendum and Endorsement Letter
Annex 5 Copies of Summary table of compensation with AHs' signature

1

1 INTRODUCTION AND PROJECT OVERVIEW

1.1 Introduction

The water supply and sanitation Batch-2 Subproject located in Ngan Thuy, Son Thuy Communes and Le Ninh farmtown, Le Thuy District, Quang Binh Province (Subproject) is one of the eight Batch-2 Subprojects of the Central Regions Rural Water Supply and Sanitation Sector Project (Project) to be implemented under the Loan Agreement No. 2609 - VIE (SF) between the Socialist Republic of Vietnam (GoV) and the Asian Development Bank (ADB).

The implementation of the Project will result in better health and living conditions of people living in rural areas in the Project provinces of Thanh Hoa, Nghe An, Ha Tinh, Quang Binh, Quang Nam and Binh Dinh. The Project will construct a piped water supply systems, and sanitation facilities and to promote safer hygiene practices by the commune's residents. The Project's components are the following: (i) Operational and sustainable piped water supply system; (ii) Improved household and public sanitation; (iii) Improvement of hygiene awareness; (iv) Strengthened sector planning and implementation capacity; and (v) Improved project management capacity.

In accordance with the Memorandum of Understanding (MOU) agreed between the ADB and the CPMU, the Subproject of Le Thuy district, Quang Binh province needs to adhere to preparation of semi-annual safeguards monitoring reports. This semi-annual report covers issues in the first half-year of 2016.

The Subproject is designed to improve rural water supply and sanitation facilities and to promote safer hygiene practices by the rural communes. Water supply includes construction of piped water supply network with treatment facilities.

The Design-Build Water Supply Package of the Subproject was signed on February 13, 2015. The Design-Build Sanitation Package of the Subproject was signed on February 09, 2015. The water supply system was constructed since October 10, 2015 and completed on June 30, 2016. Construction of sanitation package were started on September 22, 2015 and completed on January 25, 2016.

1.2 Subproject Overview and Progress

Table 1 Le Thuy Subproject Overview and Progress

| Project Number and Title: | ADB Loan No. 2609-VIE (SF) Central Region Rural Water Supply and Sanitation Sector Project Subproject: Construction of Water Supply and Sanitation for Ngan Thuy, Son Thuy Communes and Le Ninh farmtown, Le Thuy District, Quang Binh Province | | | |
|-------------------------------|--|---------|--|--|
| | Environment | В | | |
| Safeguards Category | Involuntary Resettlement | В | | |
| | Indigenous People | С | | |
| Reporting period: | January 2016 - June 2016 | | | |
| Last report date: | March 2016 | | | |
| | 1) Construction Con | nponent | | |
| | The Subproject of Ngan Thuy, Son Thuy Communes and Le Ninh farmtown, Le Thuy District includes two construction packages: | | | |
| | (i) Design-Build packages of water supply system : QB2/DB2/NCB; and | | | |
| | (ii) Design-Build packages of sanitation: QB2/DB4/NCB. | | | |
| Key sub-project | 2) Progress of Work Main items of water supply component: | | | |
| activities since last report: | (i) Intake: completed; | | | |
| | (ii) WTP: completed; | | | |
| | (iii) Water pipelines: completed. | | | |
| | Main items of sanitation component: As of the end of Q2/2016, 03 public latrines and 401/401 household latrine substructures (of which 283 are poor HHs and 118 are near-poor female-headed HHs) have been completed. 3) Changes of Surrounding Environment: The construction of the Subproject was completed. No major negative impacts. | | | |
| Report prepared by: | PIA consultant | | | |

Table 2 Basic Data of Le Thuy Subproject

| No. | Contents | Data | |
|-----|---|----------------------------------|--|
| 1 | Water Supply System Component | | |
| | Designed Population | 13,637 people | |
| | Capacity | $2,200 \text{ m}^3/\text{day}$ | |
| | Water source | Surface Water (from Cam Ly lake) | |
| | Length of Distribution network | 55.466 km | |
| | Number of Service Connections | 2,000 HHs and public places | |
| 2 | Sanitation Component | | |
| | Public Latrines | 3 units | |
| | Household's in-kind latrine substructures | 401 units | |

2 ENVIRONMENTAL PERFORMANCE MONITORING

2.1 EMP/EMoP Implementation and Compliance

2.1.1 EMP/EMoP Implementation by D&B Contractor

During construction phase, the implementation of the EMP is the responsibility of the D&B Contractor. The D&B Contractor's responsibility includes the appropriate and timely application of the mitigating measures stipulated in the approved EMP/EMoP. The application and implementation of the mitigation measures are to provide the safeguards that will control, reduce if not eliminate unwanted effects during the Subproject implementation.

2.1.2 EMP/ EMoP Implementation by Operating Unit

During the O&M phase, the plant operating unit (OU) will be responsible for adherence to mitigation measures and activities stipulated in the EMP and EMoP plans. OU will primarily focus on safe operation of the WTP and distribution of treated water including (i) testing of raw water quality and treated water quality as well as (ii) monitoring of the quality of waste water and sludge as stipulated in EMoP and (iii) applying the health and safety regulations specified in the EMP. The operators will also need to carry out O&M procedures in accordance with the O&M manual.

2.2 Environmental Monitoring by CSC/PPMU

During the construction phase, the inspection, evaluation and recording of compliance to the EMP and EMoP as implemented by the D&B Contractors were among the tasks undertaken by the Design-Build Construction Supervision Consultant (CSC) in the field with the assistance of the PIA Consultant. The CSC carried out weekly and monthly inspections and maintained records of the D&B Contractor's mitigating measures and activities prescribed in the approved EMP and EMoP plans of the Subproject. The responsibilities of the CSC covered the period to the end of the commissioning stage

4

including certifying of construction materials/equipment/items and final checking and acceptance for handing over to operation.

These inspection and evaluation records were consolidated by the CSC in their Quarterly Environmental Monitoring Report. The CSC's collation and synthesis of the D&B Contractors' compliance to the requirements of the EMP and EMoP were summarized in matrix attached with the report to be submitted to the CPMU and PIA Consultant within 15 days after the end of each quarter.

During O&M phase, PPMU's Environmental Officer (EO) will be responsible for monitoring the OU compliance to the EMP and EMoP, as well as consolidating all the records of the plant operator on laboratory analysis and health and safety issues, and quarterly reporting to the CPMU and PIA Consultant within 15 days after the end of each quarter.

2.3 Monitoring Activities Carried out by PIA Consultant

In the first half-year of 2016, the PIA Consultant has provided support to CPMU and PPMUs in terms of environmental documentation preparation, field visits for supervision and assistance, information verification, and detailed design requirements to ensure all the environmental provisions/requirements are followed.

In preparation for environmental assessment of batch-2 subprojects, the PIA Consultant has prepared IEE reports based on (i) the environmental documents prepared by FS consultants and PPMUs and (ii) field visits carried out by PIA Consultant's Environmental Specialists to investigate and validate baseline environmental conditions of the proposed Batch-2 subprojects. The IEE reports of 08 batch-2 Subprojects have been issued Conditional Approval from the ADB. The EMPs approved by ADB have been also incorporated in the FS reports approved by the PPCs and in the Environmental Protection Commitments registered and accepted by the Subprojects' DPCs.

The templates of the bidding and contract documents with incorporated-EMP/EMoP plans were prepared by the PIA Consultant specialists and delivered to the PPMU. Subsequent monitoring of the PIA Consultant during bidding and contract process indicated that the EMP and EMoP plans and budget requirements have been included in the Subproject's bidding and bid documents and budgets, as well as in the Subproject's contract documents.

During the construction, the PIA Consultant has provided support and advices to the CSC and D&B Contractors in implementation of EMP/EMoP and assisted CPMU in compiling monitoring reports for submission to ADB.

During the first half-year of 2016, the PIA Consultant conducted two field trips to the Subproject on March 17-20, 2016 and May 30 - June 3, 2016. The on-site visit was made to check the progress and quality of the construction works and compliance with contract documents including safeguards issues. Meeting with PPMU, CSC and D&B Contractor staff was held afterward to give them recommendation/advice to the Subproject implementation and to have discussion or find resolution to the rising issues. Specific site visits to monitor the environmental compliance of Pilot Subprojects focused on the following:

(i) Validating physical progress of the construction works and pipe laying activities on routes of the designed pipeline network and point out non-compliance with the approved EMP and EMoP (e.g. Realignment of pipelines/distribution lines to avoid cultural/ historic structures or cutting down big trees, and relocation of construction sites);

- (i) Examining safety of the construction workers and the public;
- (ii) Inspection of the environmental condition and sanitation of construction sites;
- (iii) Inspection of construction diaries and record keeping at the construction sites;
- (iv) Random spot checking of households and public latrines; and
- (v) Checking the Subprojects' construction works; gathering and collation of environmental monitoring reports; and analyzing the compliance of the Pilot Subprojects as defined in the Subproject's EMP and EMoP.

The collation of the OU's quarterly monitoring reports and PIA Consultant's review on the assessment of the safeguard compliance to the requirements of the EMP and EMoP is summarized in environmental performance matrix of the Subproject attached with this report as an *Annex 1*.

2.4 Key Issues for Further Actions

Table 3 Environmental Issues for Further Action.

| Issue | Required Action | Responsibility and Timing | Resolution |
|---|---|---|------------|
| Old Issues from Previous Repo | orts | | |
| Protection of raw water source | PPMU to erect adequate warning signs at the water intake location to prevent trespass or negative impacts on Cam Ly lake and collaborate with the local authorities to come up with a strategy to protect the raw water source. | PPMU Before end of Q3 2016. | |
| New Issues from This Report | | | |
| The DO of the raw water is slightly less than required and COD slightly higher than allowed by the national raw water quality standard QCVN 08:2008/BTNM. | The PPMU/ OU to continue monitoring raw water quality closely and operate WTP to ensure treated water quality. | The PPMU/ OU to adjust treatment dosing and operation of WTP to ensure treated water meets drinking water quality QCVN 01:2009/BYT. | |
| Oral complaints from local residents on the reinstatement during the installation of | The Contractor to restore the existing roads right after | Contractor Before end Q3 2016. | |

| pipelines in Le Ninh farm and | the completion of | |
|-------------------------------|-------------------|--|
| Son Thuy commune. | each construction | |
| | item. CSC to | |
| | supervise. | |
| | | |

3 INVOLUNTARY RESETTLEMENT PERFORMANCE MONITORING

3.1 Compliance with RP Requirements

The draft LARP of Le Thuy Subproject, Quang Binh Province has been prepared and submitted to ADB as Volume 5 of Subproject Appraisal Report and has been approved on December 2014.

The Compensation Assistance Resettlement Committee (CARC) has been established by DPC of Le Thuy on 27 May 2014 for resettlement activities of Le Thuy Subproject.

During preparation of the draft LARP, four Public Consultation Meetings have been conducted to disseminate the project information and policy to communities as well as affected households.

The detailed engineering design of (i) Intake, Water Treatment Plant (WTP), access road No.1 and power line; (ii) transmission pipeline (main pipeline D250-D90) have been approved on 10 August 2015 and 12 October 2015 respectively.

PPMU has conducted public consultation meetings on 11 August 2015 and 17 September 2015. The detailed measurement survey (DMS) for construction of Intake, Water Treatment Plant (WTP), access road No.1 and power line was conducted from 12 to 27 August 2015 and the socio-economic survey (SES) was carried out on 26 June and 12 August 2015. As to the public land for construction of transmission pipeline, a public consultation meeting was conducted on 13 October 2015.

The full Updated LARP was approved by ADB and the compensation payments were made on October 23, 2015; October 29, 2015 and April 7, 2016.

 Table 4
 Summary of Compliance with RP Requirements.

| RP Requirements | Compliance status Yes/No/Partial | Comment or Reasons for Compliance, Partial Compliance/Non-Compliance | Issues for Further Action 1 |
|---|--|---|-----------------------------------|
| Establishment of personnel in PMU/PIU | Yes | The Compensation Assistance Resettlement Committee (CARC) was established through Decision 4007/QD-UBND dated 27 May 2014. | |
| | | To prepare the draft LARP, there was 4 public consultations with presence of PPMU, FS consultant, CPC and Affected Households in project area. | |
| | | Meeting with 10 AHs for agreement of land acquisition on 10 June 2014 | |
| 5 | | Meeting with community in Son Thuy commune 27 June 2014 | |
| Public consultation and socialization | Yes | Meeting with community of Le Ninh Farm town in 28 June 2014 | |
| process | | Meeting with community of Ngan Thuy commune on 1 July 2014, | |
| | | To prepare the Partial Updated LARP, PPMU conducted 3 public consultation meetings on 11 August, 17 September and 13 October 2015 | |
| | | The detailed measurement survey (DMS) was conducted from 12 to 28 August and the socio-economic survey (SES) was conducted on 26 June and 12 August 2015. | |
| Land area to be acquired is | Yes | +Permanently acquired land area: 10,011.1 m ² . Out of which 7,398.0 m ² of 8 AHs with 47 APs and 2,612 m ² of public land | |
| identified and finalised | 103 | +Temporarily acquired land area: 12,790 m ² of public land managed by CPC of Ngan Thuy | |
| Land acquisition completed | Yes | The acquired land was handed over for construction in October 2015 | |
| Establishment of Resettlement Site(s) | Not applicable | No relocation is required | |

| RP Requirements | Compliance status Yes/No/Partial | Comment or Reasons for Compliance, Partial Compliance/Non-Compliance | Issues for Further Action 1 |
|--|--|--|-----------------------------------|
| | | The paid compensation to 08 AH is 280.363.400 VND , including | |
| Compensation | | + Land: 75,074,400 VND | |
| payments for | Yes | + Structures: 171,779,000 VND | |
| affected assets is completed | 105 | + Crops and trees: 33,510,000 VND | |
| Completed | | The paid allowances and assistances (excluding allowances for vulnerable person and vocational training) to 8 AHs are 475,769,000 VND | |
| Transport assistance for relocating affected households | Not applicable | No relocation is required | |
| Additional assistance to vulnerable affected household | Yes | Three vulnerable households received allowance of 1,200,000 VND/each. | |
| Income Restoration Program | Yes | The Vocational Training course was offered as IRP to 6 seriously APs who are less than 30 years old ² with total budget 7,085,000 VND. However, all of APs want to seek suitable vocational training course with their capable by themselves, therefore PPMU paid to them by cash with 1,595,000 VND/each. | |
| Temporary impacts have been addressed (affected properties restored to at least pre-project conditions) | Yes | The pipeline was installed during rest time between two crops seasons to minimize the impacts on crops and households. | |
| Capacity building activities | Yes | - The member of PPMU and Le Thuy CARC attended to the training course on "ADB's social safeguard policies on environment and resettlement" from 2 April to 4 April, | |

2

 $^{^2}$ Based on ADB's comments on the 2^{nd} Partial Updated LARP as of 8 February, all of the seriously APs in working age should be included in the Income Restoration Program (IRP). This issue will be rectified in the 3^{rd} Partial Updated LARP.

| RP Requirements | Compliance status Yes/No/Partial | Comment or Reasons for Compliance, Partial Compliance/Non-Compliance | Issues for Further Action 1 |
|--------------------|--|---|-----------------------------------|
| | | 2014 in Quang Nam province. PPMU of Quang Binh organized the "Land Acquisition and Resettlement Supervision" course on March 30-31, 2016 | |

3.2 Resettlement Monitoring by PPMU

The construction of water supply system started in October 2015 PPMU has cooperated with Constructor Supervision Consultant (CSC) to supervise the land acquisition adjacent during construction to ensure that the adjacent land area has not been affected.

3.3 Monitoring Activities carried out by PIA Consultant

The PIA Consultant conducted two field trips to the Subproject on March 17-20, 2016 and May 30 – June 3rd, 2016 The on-site visits were made to check construction sites. All construction has been carried out within the land boundaries and no claims have been raised by people in the subproject area.

3.4 Key Issues for Further Action

Table 5 LARP Issues for Further Action.

| Issue | Required Action | Responsibility and Timing | Resolution | | |
|--|----------------------------------|------------------------------|------------|--|--|
| Old Issues from Previou | Old Issues from Previous Reports | | | | |
| Preparation of third Partial Updated LARP | | | Approved | | |
| New Issues from This Report | | | | | |
| Land acquisition and | To be prepared after | PPMU, CPMU, PIA | | | |
| Resettlement | completion of the | Consultant and ADB | | | |
| Completion Report | construction | Q4 2016 | | | |

4 ETHNIC MINORITY DEVELOPMENT PERFORMANCE MONITORING

4.1 Ethnic Minority Implementation and Compliance

Population in the Le Thuy Subproject area of Ngan Thuy, Son Thuy commune and Le Ninh Farm Town in July 2013³ is 13,637, of which about 47.2% are women. Number of households is 3,422. According to the data provided by CPCs, there are 49 households of ethnic minority, account for 1.4% of total households in the Subproject area (including 48).

³ According to Baseline survey report water supply and sanitation subproject for Ngan Thuy, Son Thuy and Le Ninh communes, Le Thuy District, Quang Binh Province of PIA consultant, October, 2014.

of Bru-Van Kieu ethnic minority and 01 of Thai ethnic minority), the remaining population belongs to Kinh majority group.

Among 49 households of ethnic minority in subproject live mainly in Ngan Thuy commune (47 households of Bru-Van Kieu in Ngan Thuy commune, 01 in Le Ninh and 01 household of Thai in Son Thuy). Ngan Thuy is a mountainous commune with a high poverty rate of 57.7% and high rate of ethnic minority (67%). There are 6 hamlets in Ngan Thuy Commune but only 2 hamlets: Cam Ly and Cua Mec are in the Subproject. The Subproject hamlets comprise 206 households (823 people). The ethnic minority people in Le Thuy subproject are not affected by acquisition of land, loss of assets and resettlement. However, to ensure that the subproject will impact positively on the ethnic minority group, besides constructing the water supply and sanitation works, the project developed and implemented a Community-Based Approach and Information-Education-Communication (CBA-IEC) Action Plan. To mitigate the negative impact of land acquisition, a LARP was developed and compensation has been paid to all negatively affected households/persons.

Furthermore, as per the Project principles poor and near poor female headed households where a woman is the only income provider, including ethnic minority households, have received water supply service connection and a hygiene latrine substructure free of charge.

According to the Ethnic minority documents⁴, the safeguards category on Indigenous People in Le Thuy subproject is C, so that there are not further action required for subproject. However, to encourage ethnic minorities to use hygiene service as well as ensure equal participation and benefits of them in the Subproject, the PIA Consultant and PPMU have worked closely and supported WSCC, HSPs and relevant stakeholders to improve their capacity on implementation of Subproject's IEC activities towards behaviour change and hygienic sanitation.

The Bru Van Kieu in Le Thuy subproject have their own written language, but only a few Bru Van Kieu people can use their written language. They mostly use national language in writing and Bru Van Kieu language in speaking. When communicating with Kinh majority group, they speak in national language.

According to the data provided by CPC of Ngan Thuy commune⁵, all of the ethnic minority in project area (Cua Mec and Cam Ly hamlet) can listen, speak, read and write in the national language. Also, women and elderly people can understand the Vietnamese language, so the HSPs can use manuals in Vietnamese language and speak in ethnic language when communicating at the hamlet meetings and visiting HHs.

From January to June 2016 the participation of ethnic minorities in the activities of the project and CBA-IEC Action Plan at commune and community levels was as shown below:

⁴ According to ADB. 2009. Safeguard Policy Statement (SPS). Manila , ADB. 2013. Indigenous Peoples Safeguards. A Planning and Implementation Good Practice Sourcebook

⁵ Reviewing on Ethnic Minorities activities on June, 2015 by PIA Consultant

Table 6 Participation of ethnic minorities in the activities of the CBA-IEC Action Plan.

| N o | Activities | Unit | Impleme ntation times/ househol ds | Total of Participant s in Le Thuy subproject (Person) | Participan ts in Ngan Thuy commune (Person) | Ethnic Minor ities People (Perso n) | % of Ethnic Minor ities People |
|--------|--|---------------|--|---|---|--|--|
| 1 | Household visiting and communicating by HSPs (*) | Househ old | 3,352 | 5,125 | 232 | 77 | 33 |
| 2 | Organized Green Saturday activities by WSCC (*) | Time | 89 | 12,676 | 1,027 | 164 | 16 |
| 3 | Hamlet/ Public meetings (*) | Time | 64 | 8,223 | 900 | 93 | 10 |
| 4 | Launching ceremony on CBA-IEC Action Plan implementation | Time | 2 | 1,090 | 510 | 74 | 15 |
| 5 | Meeting with WSCC and HSPs | Time | 12 | 207 | 50 | 14 | 28 |
| 6 | Report and Survey of WSCC and HSPs | Time | 6 | 94 | 8 | 2 | 25 |

(*) The specific dates of organizing Green Saturday activities, hamlet meetings and household visiting and communicating please see in the Annex 6.

The activities of CBA-IEC Action Plan at commune and community in Le Thuy subproject mainly focus on communicating about project's policies, using hygienic latrine, using tap water, protecting environment and washing hands with soap. The launching ceremony and mainstreaming in the Women's Union meetings aimed to encourage people's participation in the CBA-IEC Action Plan. Although the ethnic minority people in subproject only account under 2% of total but the participation of ethnic minority people in Ngan Thuy commune in CBA-IEC activities ranged from 10 to more than 30% (See the Table 6)

In Le Thuy subproject, in total there are 55 members of WSSS and HSPs of which four are ethnic minority people. In Ngan Thuy commune, the ethnic minority members in the WSCC and HSPs account for 40% (There are 4 ethnic minority people in the total of 10 people).

Based on the above mentioned, it can be concluded that the ethnic minority activities have been implemented in compliance with the Project principles

4.2 EM Monitoring Activities Carried out by PPMU/WSCC and PIA Consultant

Up to now, PPMU has assigned Ms. Pham Ngoc Huyen to be in charge of ethnic minority issues in Le Thuy subproject.

During the first half-year of 2016, both PIA Consultant and PPMU worked closely and provided support to WSCC and HSPs in implementation of Subproject's IEC activities towards behaviour change and hygienic sanitation and in encouragement of participation of ethnic minorities in subproject's IEC activities to guarantee that they will benefit from the project in a culturally appropriate way.

During the reporting period, the WSCC and HSPs conducted 18 CBA-IEC monitoring and coordination meetings and prepared progress reports. The total number of participants was 301 in Le Thuy subproject and 58 in Ngan Thuy commune, 16 among them were ethnic minority people.

4.3 Key Issues for Further Actions

Table 7 EMDP Issues for Further Action.

| Issue Required Action | | Responsibility and Timing | Resolution | | | |
|--|--|---------------------------|------------|--|--|--|
| Old Issues from Previous Reports: None | | | | | | |
| New Issues from This Report: None | | | | | | |

5 OCCUPATIONAL HEALTH AND SAFETY (OHS) PERFORMANCE MONITORING

The Occupational, Health and Safety (OHS) performance has been monitored for the public and the workers.

5.1 OHS for Workers

Before construction, the construction site was surveyed and cleared of bombs and unexploded ordnance by Military Command of Quang Binh province.

The following issue related to OHS for workers has been identified:

Table 8 OHS Issues for Further Action

| Issue | Required Action | Responsibility and Timing | Resolution | | |
|---|--|------------------------------|--|--|--|
| Old Issues from Previou | Old Issues from Previous Reports: | | | | |
| | Contractor to provide PPE and ask workers to | | Protective gear has been provided by the | | |
| _ | wear PPE at work | possible | Contractor | | |
| protective footwear at construction site. | | CSC to supervise | | | |
| New issues from this rep | ort: None | | | | |

5.2 Public Safety

No public safety issues have been identified or reported.

6 INFORMATION DISCLOSURE AND CAPACITY BUILDING

6.1 Public Consultations, Meetings and Information Disclosure

6.1.1 Environmental Public Consultation and Information Disclosure

There are two public consultations on environmental issues to be implemented for each of the Subproject. The 1st public consultation was held during FS preparation. The 2nd public consultation was held on August 11, 2015 before construction commencement in order to inform the local people of at least: (1) commencement time of construction, (ii) duration of construction, (iii) EMP and EMoP requirements and responsibilities, (iv) introduction of Subproject site office, contact details and telephone numbers of contractors, CSCs and PPMU staff. The minute of the 2nd public consultation is attached in *Annex* 2.

The approved IEE report and SIEE report have been disclosed on the information boards of the related CPCs (*see figures 2-4 in Annex 3*) and the soft copies of the full IEE reports are stored in computers by CPC staff and shall be disclosed to any third party if requested.

Updates of the Subproject information will also be disseminated to all the beneficiaries through the loudspeaker system of the Subproject communes as well as over activities of the Water and Sanitation Commune Committee (WSCC) members and the Health and Sanitation Promoters (HSPs).

6.1.2 Resettlement Public Consultation and Information Disclosure

Four public consultations were carried out during the subproject preparation phase.

During updating LARP three public consultation meetings were conducted on 11 August, 17 September and 13 October 2015. All related information of subproject was disclosed to AHs.

6.2 Training – Capacity Building

6.2.1 Environment

To improve environmental monitoring capacity of commune environmental officers, WSCCs and HSPs for Batch 2 subprojects, PIA consultant organized training courses on environmental monitoring during project implementation for WSCCs and HSPs in Dong Hoi city, Quang Binh province on 26rd and 27th May 2015. This capacity building activity equipped 21 participants of this Subproject (17 males and 04 females) with solid knowledge about ADB's and GoV's environmental policies and environmental monitoring.

The PPMU staff and CSCs of Ha Tinh and Quang Binh Batch-2 Subprojects attended 2nd training course on "Contract management and Construction quality supervision" organized by PIA Consultant on November 26-27, 2015. There were 9 participants in the course (1 female) – including 3 participants of this Subproject. The training course aimed to improve the trainees' capacity on management of contracts and construction quality, environmental management and monitoring, and preparation of progress reports etc. and also to enable the participants to transfer skills and knowledge to other offices/personnel after the course.

Apart from the above organized training courses, PIA Consultant has delivered on-the-job support via phones, emails and meetings when necessary as well as clarified any queries from CPMU and PPMUs.

6.2.2 Resettlement

With support from PIA Consultant, PPMU of Quang Binh organized the "Land Acquisition and Resettlement Supervision" course on March 30-31, 2016 to members of PPMU, CARC and affected households to enhance their capacity on supervision of land acquisition and resettlement.

6.3 Press/Media Releases

In order to extend the publicity for the Project information, implementation status and lessons learnt from the ADB funded CRRWSSSP Project has been published and updated information on the website of the National Centre for Rural Water Supply and Environmental Sanitation (NCERWASS) (http://ncerwass.mard.gov.vn/) since January 2014. These publications aim to share experiences of the Project activities and the Project's progress among network of RWSSP, partners and interested stakeholders.

6.4 IEC Material Development/Production

A Project leaflet was prepared by the PIA consultant at the preparation phase and delivered to local people in the Orientation Workshop conducted on 22nd July 2013 and in CBA-IEC activities and at households by HSPs and WSCC to promulgate and disclose information on Project objectives, activities, financial mechanism, and CBA-IEC approach and methods.

The leaflet was presented in the simplest style of the nation language as this is commonly used for other promotion papers considering that nation language is understandable to most Van Kieu people living in the Subproject area. All of ethnic minority in project area (Cua Mec and Cam Ly hamlet) can listen, speak, read and write the nation language (Vietnamese language), including woman and elderly people can understand the Vietnamese language. So that, the HSPs can use the manuals in Vietnamese language and speak in ethnic language when communicating at the hamlet meetings, visiting HHs,...

Five volumes of handbooks for HSPs and WSCC have been prepared by PIA in consultation with local institutions, considering opinions of PPMUs and CPMU to support HSPs and WSCC in implementing CBA-IEC activities. These communication handbooks were designed to introduce and use appropriate approaches with illustrating pictures, in simple Kinh language, and printed in "14-Times New Roman"-font for farmers, ethnic minority HSPs, and WSCC members to easily apply and improve their communication skills. During the reporting period the handbooks have been printed in a professional printing shop and high quality hand books have been sent to all Subproject PPMUs for distribution to WSCCs and HSPs:

- Volume 1 provides general information about project principles, objectives, activities, guidelines on CBA-IEC Action Plan implementation, communication skills; and monitoring and reporting;
- Volume 2 provides knowledge and communication skills on using hygienic latrines;
- Volume 3 is on environmental sanitation;
- Volume 4 is on washing hands with soap; and
- Volume 5 is on using of tap water.

7 GRIEVANCE REDRESS MECHANISM

A Subproject site office has been established, and the Subproject's information including grievance redress mechanisms on environment and resettlement have been disclosed to the public on the notice boards of the CPCs of the Subproject.

7.1 Environment

No written grievance has been received, however, some residents have complained verbally about slow reinstatement of the roads after construction.

7.2 Resettlement

No written grievance has been received and no oral complaints have been raised.

8 CONCLUSION AND RECOMMENDATIONS

8.1 EMP/EMoP Implementation

The results of the implementation of the EMP/EMoP have indicated that most of the requirements of the EMP and EMoP have been followed by the contractors and the PPMU. However, the remaining issue of the previous reporting period is (i) to erect adequate warning signs at the water intake location to prevent trespass or negative impacts and marking of the protection zone of the raw water source of Cam Ly lake which can be exposed to pollutants from forestry activities (ii) collaboration with the local authorities to come up with a strategy to protect the raw water source.

Two new issues have been identified during this reporting period; (i) concentration of dissolved oxygen (DO) is slightly lower and biological oxygen demand (BOD₅) is slightly higher than the acceptance limits specified in QCVN08/2015/BTNMT; and (ii) there are some oral complaints from local residents on the reinstatement of roads after the installation of pipelines in Le Ninh farm and Son Thuy commune as roadsides were excavated but not reinstated to their initial state. The PPMU/ OU was recommended to continue monitoring the raw water quality closely and to adjust the treatment chemicals to ensure that treated water quality meet QCVN01/2009/BTY. The Contractor was required to restore the existing roads right after the completion of each construction item.

The overall implementation/compliance of the Subproject of Le Thuy district, Quang Binh province to the EMP/EMoP is rated as partially satisfactory in this reporting period. In the forthcoming time, the PPMU/CSC shall enforce that the D&B Contractors will do construction of the Subproject facilities in compliance with the approved EMP/EMoP provisions, and to timely conduct raw water sampling and quality analysis.

8.2 RP Implementation

Implementation of the resettlement activities of Le Thuy sub-project is appraised as satisfactory and compliant with ADB' safeguards policy.

8.3 Ethnic Minority

Only 1.4% of the total households belong to ethnic minorities in the subproject and there are no ethnic minority persons affected by acquisition of land and other assets nor by resettlement in the Le Thuy subproject. The safeguards category on Indigenous People in Le Thuy subproject is Category C.

Safeguards Monitoring Report Jan ÷Jun 2016 Le Thuy district, Quang Binh province

16

In order to guarantee that the ethnic minority received benefit from the project in a culturally appropriate way and encourage them to keep using hygiene services, both PIA Consultant and PPMU need to continue to work closely and support WSCC, HSPs and relevant stakeholders to maintain their capacity on implementation of Subproject's IEC activities towards behaviour change and hygienic sanitation.

17

Annex 1 Subproject Compliance with EMP and EMoP Requirements

(i) Summary of Subproject's Compliance with EMP requirements

| EMP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|---|--|---|------------------------------|
| (1) | (2) | (3) | (4) |
| I. PRE-CONSTRUCTION PHASE | | | |
| 1. Preparing bid documents | | | |
| Include the EMP and estimated cost of mitigation measures in the Contractor's bid documents | Yes | | |
| 2. Updating EMP | | | |
| Update mitigation measures defined in the approved EMP and incorporate them into the detailed design to minimize adverse environmental impacts | Yes. There are no significant changes in the detailed design compared to the FS's basic design that may materially affect the anticipated environmental impacts or the approved EMP/EMoP (see annex 4 for the enclosed addendum and endorsement letter). | | |
| 3. Survey of Unexploded bomb(s) in the Subproject area | | | |
| • Establish safe buffer zone during disarmament, proper fencing, protective barriers, sufficient signal, site supervisors and information disclosure. | Yes | The Subproject site was cleared of unexploded bombs and ordnance on January 20, 2015. | |
| II. CONSTRUCTION PHASE | | | |
| 1. Land clearing, grading and excavation | | | |

| EMP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|--|---|---|------------------------------|
| (1) | (2) | (3) | (4) |
| Schedule construction during dry months; Supervision and proper implementation of construction activities. | Yes | | |
| Re-plant trees and re-seeding of indigenous grasses at the end of/or completion of construction activities. | Yes | | |
| Cover exposed soil from diggings and stock piles and soil during the rainy days. | Yes | | |
| Disposal sites must be selected and approved before construction | Yes | | |
| Restoration of existing road right after completion of each construction item | Yes | | |
| Schedule transport and hauling of construction materials during light traffic hours. Arrange adequate traffic detour, and provide sufficient signal & warning lights. | Yes | | |
| Regularly spray water on dry and exposed soil in construction site and along the road; | Yes | | |
| Trailer-truck hauling and transporting construction materials must be covered with canvas | Yes | | |
| Tires and body of vehicles must be washed with water when returning to public roads from WTP construction site. | Yes | | |

| EMP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|--|---|--|------------------------------|
| (1) | (2) | (3) | (4) |
| Noise & vibration | | | |
| Contractor to maintain equipment and transport vehicles in proper working order and ensure that muffler and other measures are installed to reduce noise in compliance with TCVN 5948:1999/BTNMT | Yes | | |
| • As much as possible implement working hours between 07:00 and 17:00; | Yes | | |
| Emission from construction vehicles, equipment and machinery | | | |
| • The discharge standards promulgated under the Environmental Protection Law 2005 will be strictly adhered. All vehicles, equipment, and machinery used for construction will conform to the relevant Vietnam standards. | Yes | | |
| All vehicles, equipment and machinery used for construction will be regularly maintained to ensure that pollution emission levels comply with the relevant regulations, namely QCVN 05:2009. | Yes | | |
| 2. Construction camps and workers' activities | | | |
| • Construction of temporary latrines, at a distance from the proposed wells for the WTP. Regular collection and disposal of garbage to the proper disposal site. | Yes. | Most of the construction workers are local people. Only a few of them staying at construction camps. | |

| EMP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|--|---|---|------------------------------|
| (1) | (2) | (3) | (4) |
| • Ensure proper handling of oil and fuel materials. Fuel storage will be in proper bounded areas. | Yes | | |
| • Fuel storage and refilling areas will be located at least 300 m from all cross drainage structures and important water bodies, or as directed by the consultant. | Yes | | |
| Any spillage oil shall be neutralized by a neutralizer, and reported to the CSC consultant. | Yes - No spillage of oil occurred | | |
| 3. Environment, health and safety | | | |
| • Ensure proper fencing and protective barriers in construction area. Sufficient signal and information disclosure about the subproject must be conducted. | Yes | | |
| Construction workers and supervisors must be equipped with protective clothes gears in the construction site. | Yes | Contractors to provide PPE and ask workers to use PPE. | |
| Maximize employment of local laborers who will live at home during construction. | Yes | | |
| Disseminate information on the risks of socially and sexually transmitted infections, including HIV transmission, to their employees, temporary laborers, and subcontractors during Subproject implementation. | Partial | Though information dissemination on the risks of socially and sexually transmitted diseases have been reported to be carried out, no evidence on information dissemination on printed materials | |

| EMP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|--|---|---|------------------------------|
| (1) | (2) | (3) | (4) |
| | | such as fliers or postal and no photos has been received. | |
| 4. Chances of finding social/cultural/religious/archaeological items Chances of finding social/cultural/ religious or archaeological items during excavation and pipe lining Immediately inform competent agencies of suspected social/ cultural/ religious or archaeological items and stop all excavation activities that may potentially affect the items. Set up work stoppage and sign boards to prevent unauthorized trespassing. | Yes | No social/cultural/ religious or archaeological items has been found during excavation or pipe lining | |
| 5. Responses to Natural Disasters and Climate Change | | | |
| A responsive plan to mitigate natural disasters during construction needs to be prepared to protect equipment and structure. | Yes | | |
| Installation of pipeline during the flooding season should be avoided. Pipelines must be installed and reinforced properly in the flood-prone areas of the Subproject communes. | Yes | | |

| EMoP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|--|---|---|---|
| (1) | (2) | (3) | (4) |
| I. PRE-CONSTRUCTION PHASE | | | |
| 1. Baseline Data: | | | |
| Raw (surface) water quality | Partial | Missing result of surface water sample taken from Cam Ly lake during Detailed Design. Elevated contents of COD in samples tested during FS preparation. | PPMU to submit the test result Raw water quality and treated water quality to be monitored during operation of the WTP. |
| 2. Unexploded bomb(s) in the Subproject area | Yes | The Subproject site has been cleared of unexploded bombs and ordnance. See annex 2 for record of unexploded bombs and ordnance clearance. | |
| II. CONSTRUCTION PHASE | | | |
| Raw (surface) water quality | Partial | Raw water quality was tested in this reporting period. However, in the raw water quality analysis, concentration of DO is slightly lower and BOD ₅ is slightly higher than the acceptance limits specified in QCVN08/2015/BTNMT. | treatment chemicals to achieve |
| Land clearing, grading and excavation | Yes | | |
| Dust suppression | Yes | | |

| EMoP Requirements (Mitigation Measures) | Compliance Status (Yes, No, Partial) | Comment or Reasons for Non- Compliance | Issues for Further Action |
|---|---|--|---|
| (1) | (2) | (3) | (4) |
| Installation of transmission and distribution pipelines | Partial | There are some oral complaints from the local residents on the reinstatement after the installation of pipelines in Le Ninh farm and Son Thuy commune as roadsides were excavated but not reinstated as their initial state. | The Contractor was required to restore the existing roads right after the completion of each construction item. |
| Industrial and domestic solid waste | Yes | | |
| Domestic waste water from temporary latrines and daily activities of workers | Yes | | |
| Construction area cleanup | Yes | | |

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Safeguards Monitoring Report

Jan ÷ Jan 2016Le Thuy district, Quang Binh province

Central Regions Rural Water Supply and Sanitation Sector Project

Consulting Services for Project Implementation Assistance

Translation

SOCIALIST REPUBLIC OF VIETNAM Independence – Freedom – Happiness PUBLIC CONSULTATION MINUTES ON ENVIRONMENTAL MONITORING

Subproject: Water supply and Sanitation in Ngan Thuy, Son Thuy and Le Ninh Plantation town, Le Thuy District.

Time: 8:00 a.m. on 11 August 2015

Location: Meeting hall of Cam Ly hamlet, Ngan Thuy commune, Le Thuy District, Quang Binh province

1. Participant

Representatives of Quang Binh Provincial Project Management Unit of Central Region Rural Water Supply and Sanitation Sector Project (PPMU):

Mr. Bui Thai Nguyen Position: Vice Director

Mr. Dinh Truong Giang Position: Planning and Technical officer

Mr. Nguyen Trong Phu Position: Technical officer

Representatives of the CPCs:

Mr. Nguyen Van Hung Position: Chairman of Ngan Thuy CPC

Mrs. Nguyen Thi Hoai Thanh
Position: Vice Chairwomen of Le Ninh Plantation

town People's Committee

Representatives of the local community and the affected households:

Mrs. Tu Thi Hai Ly

Position: Officer of Le Ninh Plantation town

Women Union

Mrs. Thieu Thi Hong Phuong Address: Le Ninh Plantation town

Mr. Nguyen Van Tua Address: Ngan Thuy Commune

Mr. Vo Van Doan Address: Son Thuy Commune

2. Meeting Content

2.1. Speeches of the Investor and Consultant

- Representatives of PPMU: gave introduction about the objectives and social significance of the Public Consultation meetings and Subproject Information Disclosure.

Gave presentation about the content of Water supply and Sanitation Subproject in Ngan Thuy, Son Thuy communes and Le Ninh Plantation town, Le Thuy District, Quang Binh province.

- *Representatives of the Environmental Consultant*: Gave presentation about the environment of the project before and during the construction phase in order to help the local people understand the impacts

and the consequences of the construction phase on environment. From that, the PPMU could collect opinions of the local community to implement the project toward sustainable development.

Impacts on Environment:

a. Positive impacts:

The water supply project will have positive impacts on the local economic and social development, significantly improve the living environment, living condition of local people, enhance the quality of people's life and health, and considerably affect the diversification of food manufacturing and processing field and other services.

After the completion of the project, local people will be able to access water supply system, community sanitation will be improved, environmental condition and living quality of the people in the subproject's area will be enhanced.

b. Negative impacts:

The project's objective is to supply water for living activities and create favorable condition for solving environmental issues. However, there may be some negative impacts on the environment:

- The process of transporting construction materials, excavation and embankment of headwork, channeling drain, installing pipeline will generate dust, noise and traffic congestion... Although these impacts are not significant, solutions are still necessary to restrict their effects on the environment.
- The construction waste and domestic waste from the workers and construction workers during the construction of the project will leave negative impacts on the environment if there is no remedy and good management.
- During the operation phase, the construction works must ensure the safety and avoid explosion due to electric incident, daily life incident, and pipe burst which affects living activities, production activities and causes traffic congestion.

It is the Contractor's responsibility to comply with all the measures in the Environmental Management Plan for restricting negative impacts on the environment and local community in the subproject area to minimum level. The local community's responsibility is to monitor, warn, remind and cooperate with the PPMU and Consultant to supervise the compliance of contractors with that plan. This is the right but also the obligation of local authorities and communities in the subproject communes.

2.2. Opinions of the local authorities and the community's representatives:

The local authorities' opinions:

- Mrs. Nguyen Thi Hoai Thanh, Vice Chairwomen of Le Ninh Plantation town People's Committee: "After listening to the investment report presented by the Investor, we are very excited that the wish of local people for so long is about to come true. During the implementation of the project, although there will be some consequences on the environment and daily life of local people, but for the benefit of everyone, we have to encourage them to overcome. Besides, there are some remedies to restrict the consequences to minimum level as stated in the investment report. Therefore, on behalf of the local authority of Le Ninh Plantation town, I suggest that the project should be implemented soon".
- Mr. Nguyen Van Hung, Chairman of Ngan Thuy CPC: "In recent years, due to the pollution of water sources and the environment, the diseases related to living water and sanitation have a tendency to increase, especially fatal diseases. The Water supply and sanitation project is vital for local people. For the negative impacts on the community during the implementation of the project, the local authorities will mobilize people and cooperate with related parties to solve and limit those impacts".

Opinions of the community's representatives:

- Representative of the people in Le Ninh Plantation town - Mrs. Thieu Thi Hong Phuong - retired officer of Le Ninh Plantation:

"The project brings practical benefits to local people, improves and enhances living conditions, reduces the diseases related to the pollution of water sources and the environment. Although there are some impacts on the living environment of local people during the implementation such as the noise of construction machines, dust, excavation on the road which cause traffic congestion, but the people's lives are not significantly affected. Those impacts can be restricted by the effort of local people and remedies stated in the investment report. Therefore, we agree to provide help and support for the implementation of the project".

- Representative of the people in Son Thuy commune - Mr. Vo Van Doan - a household who registered to use water in Son Thuy commune:

"In our commune, most households have registered to be connected to water supply system. We are aware that there will be some difficulties during the construction such as traffic congestion of routes, excavation in our garden for the installation of pipelines, difficulties in travel... Therefore, I suggest that the construction should not be prolonged; we should finish construction in one route before moving to the other one for avoiding negative impacts on local people. When the construction area is returned to local people, the construction quality must be guaranteed to avoid long-term effects on people's life".

- Mr. Nguyen Van Tuan - a household who registered to use water in Ngan Thuy commune:

"My household is located in the area that the main pipeline may cross; the way to our house may be excavated during the installation of the pipeline, and the travel will be difficult. However, our family will solve that problem and create favourable condition for the construction works to be completed soon and put into use for the benefit of all people in the commune. The construction should meet the progress; it should not be prolonged and cause difficulties to our family and others in the hamlet".

- Mrs. Nguyen Thi Thu Ha - a household who registered to use water in Ngan Thuy commune:

"We suggest that the construction contractors should accelerate the project implementation for us to be able to access to water supply system soon. If the environmental protection commitments are complied with, we are totally satisfied".

Representative of the Investor:

Showed gratitude to the participation and opinions of everyone and concluded the consultation meeting.

3. Conclusion of the consultation

All the participants in the Public consultation meeting agreed with the environmental contents of the project. They wish that the project could be completed soon to improve the condition of local water source and sanitation.

The PPMU showed gratitude to the representatives of the local authorities and people in Ngan Thuy, Son Thuy communes and Le Ninh Plantation town for their participation and opinions.

The meeting ended at 11:30 a.m on the same day. It has been approved and signed together by all participants.

REPRESENTATIVE OF THE INVESTOR

REPRESENTATIVE OF NGAN THUY COMMUNE PEOPLE'S COMMITTEE CHAIRMAN

Bui Thai Nguyen

Nguyen Van Hung

REPRESENTATIVE OF LE NINH PLANTATION TOWN PEOPLE'S COMMITTEE VICE CHAIRWOMEN REPRESENTATIVE OF THE PEOPLE IN THE SUBPROJECT AREA

Nguyen Thi Hoai Thanh

Thieu Thi Hong Phuong

Original

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

BIÊN BẢN CUỘC HỌP THAM VÁN CỘNG ĐỒNG VÈ ĐÁNH GIÁ MÔI TRƯỜNG

Tiểu dự án: Cấp nước sạch và VSMT NT cụm xã Ngân Thủy, Sơn Thủy và nông trường Lệ Ninh, huyện Lệ Thủy.

Thời gian: 08h00 ngày 11/08/2015.

Địa điểm: Hội trường thôn Cẩm Ly, xã Ngân Thủy, huyện Lệ Thủy, tỉnh Quảng Bình.

1. Thành phần tham dự:

Đại diện Ban quản lý dự án (PPMU):

Ông : Bùi Thái Nguyên Chức vụ: Phó giám đốc

Ông: Đinh Trường Giang Chức vụ: Phụ trách KH-KT

Ông: Nguyễn Trọng Phú Chức vụ: Cán bộ kỹ thuật phụ trách dự án

Đại diện UBND xã:

Ông: Nguyễn Văn Hùng Chức vụ: Chủ tịch UBND xã Ngân Thủy

Bà : Nguyễn Thị Hoài Thanh Chức vụ: Phó chủ tịch UBND NT Lệ Ninh

Đại diện cộng đồng dân cư và những người chịu ảnh hưởng:

Bà: Từ Thị Hải Lý Chức vụ: cán bộ HPN thị trấn NT Lệ Ninh

Ông: Thiều Thị Hồng Phượng Địa chỉ: TT NT Lệ Ninh

Bà: Nguyễn Văn Tuân Địa chỉ: Xã Ngân Thủy

Bà: Võ Văn Doãn Địa chỉ: Sơn Thủy

2. Nội dung cuộc họp:

2.1. Phần phát biểu của Chủ đầu tư và đơn vị tư vấn:

 Đại diện Ban quản lý dự án: Giới thiệu về mục tiêu và ý nghĩa xã hội của cuộc họp Tham vấn cộng đồng và Công bố thông tin Tiểu dự án.

Trình bày về nội dung của Tiểu dư án đầu tư xây dựng hệ thống Cấp nước và vệ sinh môi trường liên xã Ngân Thủy, Sơn Thủy và nông trường Lệ Ninh, huyện Lệ Thủy, tinh Quảng Bình.

- Đại diện đơn vị tư vấn về môi trường: Trình bày nội dung về môi trường của dự án trước và trong giai đoạn xây dựng, nhằm để người dân nắm bắt và hiểu rõ những tác động cũng như ảnh hưởng của quá trình xây dựng đến vấn đề môi trường. Trên cơ

sở đó BQLDA tiếp thu ý kiến của cộng đồng nhằm xây dựng dự án theo hướng phát triển bền vững.

Tác động lên môi trường:

1. Tác động tích cực:

Việc xây dựng dự án cấp nước sinh hoạt sẽ có tác động rất tích cực đến sự phát triển kinh tế, xã hội của địa phương, cải thiện một bước đáng kể với môi trường sống, điều kiện sống của người dân trong vùng, đảm bảo nâng cao chất lượng sống, sức khóc của người dân; tác động mạnh đến đa dạng hóa các ngành nghề sản xuất, chế biến lương thực thực phẩm và các ngành dịch vụ khác.

Sau khi hoàn tất dự án, người dân được tiếp cận với hệ thống cấp nước tập trung, cái thiện vệ sinh cho cộng đồng dân cư, điều kiện môi trường và chất lượng cuộc sống của người dân trong phạm vi Tiểu dự án được nâng cao.

Tác động tiêu cực:

Là loại hình dự án được đầu tư với mục đích đáp ứng nguồn nước sạch cho sinh hoạt và tạo điều kiện để xử lý các vấn để liên quan đến môi trường, tuy nhiên cũng có thể có một số tác động tiêu cực đến môi trường:

- Quá trình vận chuyển vật liệu xây dựng hoặc đào đắp khu đầu mối, đào rãnh, lắp đặt các tuyến ống sẽ gây ra bụi, tiếng ồn, ách tắc giao thông... Tuy những tác động này là không lớn nhưng cũng cần có giải pháp để hạn chế những ảnh hưởng của nó đến môi trường.
- Các chất thải xây dựng, rác thải sinh hoạt của đội ngũ công nhân, thợ xây lắp... trong quá trình thi công công trình sẽ được thải ra môi trường gây những tác động xấu cho môi trường nếu không có biện pháp xử lý và quản lý tốt.
- Trong quá trình vận hành sử dụng công trình cần phải bảo đảm an toàn cháy nổ do sự cố điện, sự cố trong sinh hoạt, vỡ đường ống gây ảnh hưởng đến sinh hoạt, hoạt đông sản xuất và ách tắc giao thông.

Trách nhiệm của Nhà thầu là phải thực hiện tuân thủ tất cả các biện pháp trong Kế hoạch quản lý môi trường, nhằm giảm thiểu tác động tiêu cực đến mức hạn chế nhất đối với môi trường và cộng đồng dân cư trong khu vực tiểu dự án. Trách nhiệm của Cộng đồng dân cư là giám sát, cảnh báo, nhắc nhở, phối hợp với Ban QLDA, Tư vấn giám sát việc chấp hành của Nhà thầu thi công đối với kế hoạch này. Đây chính là quyền lợi nhưng cũng là trách nhiệm của chính quyền địa phương và cộng đồng các xã trong khu vực dự án.

2.2. Ý kiến của chính quyền địa phương và đại diện cộng đồng dân cư:

Ý kiến của chính quyền địa phương

+ Bà Nguyễn Thị Hoài Thanh Phó chủ tịch UBND thị trấn Nông trưởng Lệ Ninh: "Sau khi nghe báo cáo đầu tư do đại diện chủ đầu tư trình bảy, chúng tôi rất phấn khởi vì mong muốn của người dân bấy lâu nay sắp thành hiện thực. Trong quá trình triển khai thực hiện Dự án, tuy có tác động đến môi trưởng và ảnh hưởng đến cuộc sống sinh hoạt thưởng ngày của người dân nhưng vì quyền lợi của tất cả mọi người nên phải

động viện họ khắc phục đồng thời đã có các biện pháp hạn chế và giảm thiểu dễn mức tối đa như Báo cáo đầu tư đã nêu, vì vậy tôi thay mặt cho chính quyền địa phương thị trấn Nông trường Lệ Ninh đề nghị Dự án sớm được triển khai thực hiện".

+ Ông Nguyễn Văn Hùng Chủ tịch UBND xã Ngân Thủy: "Trong những năm qua do tình trạng ô nhiễm nguồn nước và môi trường nên các bệnh liên quan đến nước sinh hoạt và vệ sinh môi trường có chiều hướng gia tăng, đặc biệt là các bệnh hiểm nghèo. Dự án cấp nước sạch và vệ sinh môi trường là cấp thiết cho người dân. Côn những tác động tiêu cực ảnh hưởng đến cộng đồng dân cư trong quá trình thực hiện Dự án, chính quyền địa phương sẽ huy động người dân phối hợp với các bên liên quan để khắc phục và giảm thiểu các tác động tiêu cực đó.

Ý kiến của Đại diện cộng đồng dân cư:

+ Đại diện cho người dân thị trấn Nông trường Lệ Ninh: Bà Thiều Thị Hồng Phượng – cán bộ về hưu ở thị trấn Nông trường Lệ Ninh.

Dự án mang lại lợi ích thiết thực cho người dân, cái thiện và nâng cao điều kiện sống, giảm thiểu bệnh tật do nguồn nước và môi trường bị ô nhiễm gây ra. Tuy rằng trong quá trình thực hiện có gây tác động đến môi trường sống của người dân như tiếng ồn của máy thi công, bụi đất, đào xới đường cản trở giao thông nhưng không ảnh hưởng lớn đến cuộc sống của người dân, có thể giảm thiểu bằng sự nỗ lực của người dân và các biện pháp hạn chế như báo cáo đầu tư nêu ra. Vì vậy chúng tôi thống nhất sẽ giúp đỡ cũng như ủng hộ trong quá trình thực hiện dự án.

+ Đại diện cho người dân xã Sơn Thủy: Ông Võ Văn Doãn - hộ đăng ký sử dụng nước ở xã Sơn Thủy.

Xã chúng tôi hầu hết các hộ đều đăng ký tham gia đấu nối công trình cấp nước sạch, chúng tôi biết khi thi công sẽ gặp một số khó khăn như đường đi ngõ lỗi bị ách tắc, vườn nhà bị đào xới để lắp đường ống, việc đi lại khó khăn, bụi bắn... Bởi vậy đề nghị việc thi công không kéo dài, làm đến đâu xong đến đấy, xong tuyến này mới thi công tuyến khác như vậy người dân đỡ bị ảnh hưởng. Khi hoàn trả mặt bằng phải dàm bảo chất lượng, tránh làm đối phó, ảnh hưởng đến cuộc sống lâu sài của người dân.

+ Ông Nguyễn Văn Tuân - Hộ đăng ký sử dụng nước ở xã Ngân Thủy

Nhà tôi ở đầu xóm chắc đường ống chính sẽ đi qua, có thể đường vào nhà bị dào trong khi thi công lấp đặt đường ống, cản trở việc đi lại nhưng gia đình tôi sẽ khắc phục và tạo điều kiện thuận lợi để công trình sớm hoàn thành đưa vào sử dụng, vì lợi ích chung của toàn dân trong xã. Đề nghị việc thi công phải đảm bảo tiến độ, không kéo dài gây khó khăn trở ngại cho gia đình tôi cũng như cả xóm.

+ Bà Nguyễn Thị Thu Hà – Hộ đăng ký sử dụng nước ở xã Sơn Thủy

Chúng tôi đề nghị các nhà thầu xây lắp đẩy nhanh tiến độ thực hiện dự án để chúng tôi sớm có nước sạch để sử dụng, thực hiện đẩy đủ các cam kết bảo vệ môi trường, như vậy là chúng tôi an tâm rồi.

Đại diện chủ đầu tư

Cảm ơn sự tham dự, tham gia ý kiến đóng góp của mọi người cho tiểu dự án và tuyên bố Kết luận cuộc họp tham vấn.

3. Kết quả tham vấn:

Các đại biểu tham dự buổi tham vấn cộng đồng hoàn toàn nhất trí với các nội dung về vấn đề môi trường của dự án. Mong muốn dự án sớm hoàn thành nhằm cải thiện về điều kiện nước sạch và vệ sinh môi trường ở địa phương.

Đại diện Ban QLDA cảm ơn sự tham gia và đóng góp ý kiến của đại diện chính quyền địa phương và người dân các xã Ngân Thủy, Sơn Thủy và NT Lệ Ninh.

Cuộc họp kết thúc vào hồi 11h 30 phút cùng ngày và được thông qua cho các thành viên cùng nghe và thống nhất ký tên.

ĐẠI DIỆN CHỦ ĐẦU TƯ

ĐẠI DIỆN UBND XÃ NGÂN THỦY

CHỦ TỊCH

Nguyễn Văn Hùng

ĐẠI DIỆN UBND XÃ NGÂN THỦY

CHỦ TỊCH

Nguyễn Văn Hù TỊCH

Nguyễn Chi Heài Chanh

ĐẠI DIỆN NGƯỜI DÂN TRONG CÁC XÃ THUỘC TIỂU DỰ ÁN

DANH SÁCH THAM GIA CUỘC HỌP THAM VẨN CỘNG ĐỒNG VÈ ĐÁNH GIÁ MÔI TRƯỜNG

Tiểu dự án: Cấp nước sạch và VSMT NT cụm xã Ngân Thủy, Sơn Thủy và NT Lệ Ninh, huyện Lệ Thủy, tỉnh Quảng Bình.

Thời gian: 08h00 ngày 11/08/2015.

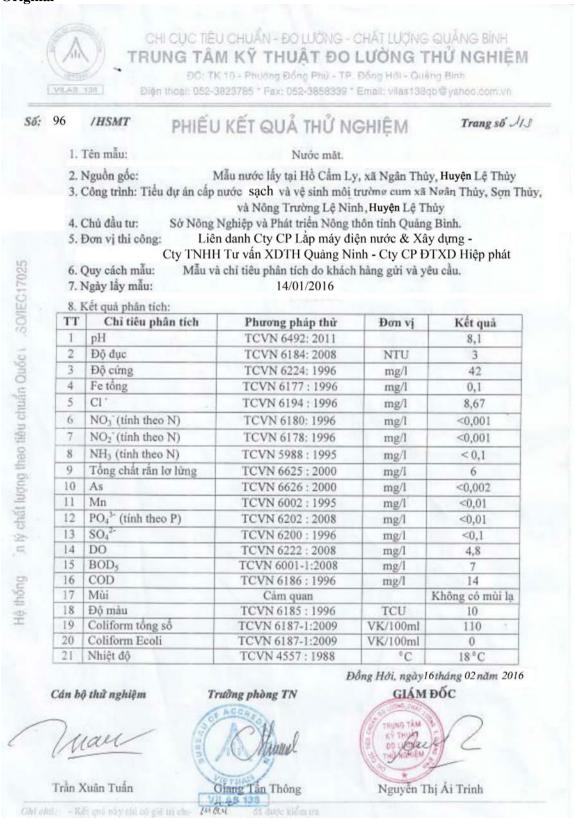
Địa điểm: Hội trường thôn Cẩm Ly, xã Ngân Thủy, huyện Lệ Thủy, tinh Quảng Bình.

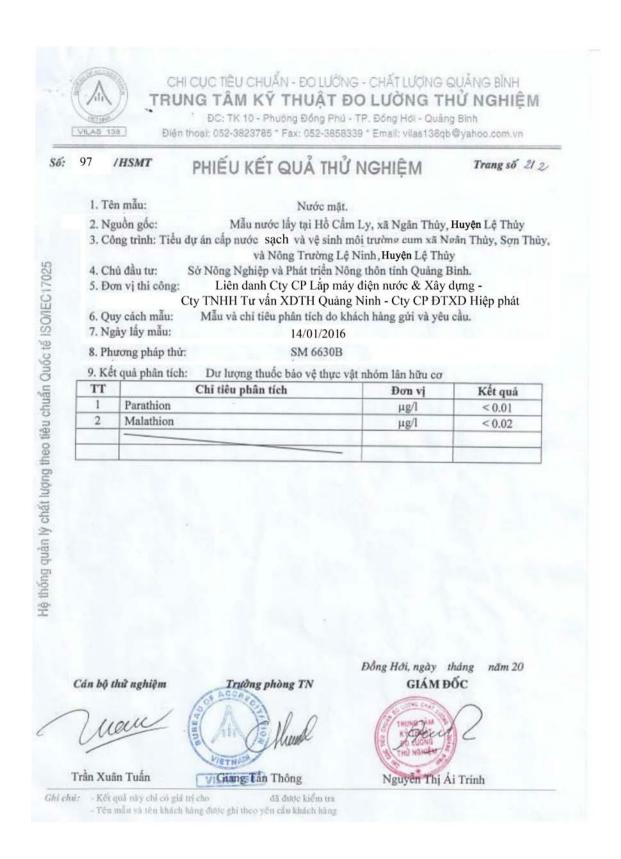
| TT | Họ và tên | Giới tính | Dân tộc | Chức vụ/Địa chỉ | Chữ ký |
|------|-----------------------------|-----------|-------------|---------------------------------|-------------|
| (No) | (Full name of participants) | (Gender) | (Ethnicity) | (Position) | (Signature) |
| 1 | Bui Mai Nguyên | Nam | Kirch | Pho giam Joc | |
| 2 | Dinch Trulong Giang | Nam | Kinh | Phu trach KH-R | |
| 3 | Nguisi Bong Phu | Nam | Kirch | Can bo hy thurst | |
| 4 | Bham Mgoe Huyen | Net | Kurh | Caul bo moi | Opel |
| 5 | Nguyan Thi Hoai Thanh | Nu | Kinh | Phó Chủ tích USNO NT LE Ninh | tal |
| 6 | Nguyên Ruidig Hiển | Nam | Kuch | Can bo DCMTrolog | Hien |
| 7 | Re Phi Hai Ly | Nui | Kinch | Can bo hoi Phu | Thank |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Their Thi Hong Placelong | Nu | Kinh | Nghi'huy -TTNT | The |
| 11 | Vo Xuan Tinh | Nam | Kinh | TTNT Le Ninh | 700 |
| 12 | Vo Ngoc Hoang | Alam | Kirch | TT NT LE Ninh | Hug |
| 13 | Nguyen Tuan Anh | Nam | Kinh | TT NT Le Ninh | ang_ |
| 14 | Trân thi Lau | Nie | Kink | T. TNO le roise | Eau. |
| 15 | / | | | , | |
| 16 | Nguyễn Van Hung | Nam | kuth | du'tich wing | Chus |
| W | 10 VM Donn | Nun | (Cil. | Sinjly | Doge |
| 18 | Nguyễn Thi Hoat That | | Kinh | Xa Son Muy | ghink |
| 19 | Naupir Thi The Ha | Nu | Kich | Ka Sor Phury | Mullar |
| 20 | Nguyễn Van Minh | Noun | Kuch | Ka Son Thuy | Mirh |

| 21 | Villing The Thai | Nú | Kirch | T.T Le Ninh | 24 |
|----|--|-----------------------|-----------|--|--------|
| 22 | Ng Van Harg | Nau | Van Kieu | Man Thuis | llen 2 |
| 25 | Ho TRI plats | hy | 100 1003 | Xe you Tip | The |
| 24 | Nguyên Von Buân | Nam | Kinh | Xá Ngan Thuy | Treens |
| 25 | Ngô Phi Nga | Nui | Kinh | Xa Ngan Thuy | Beja |
| 26 | Phan Thi Hồng Loan | Nu | Kinh | Xã Ngân Thuy | laur |
| 27 | Le Chi Fla | All | Kinh | xa Ngan thuy | lette |
| 28 | Ho Thach | Nan | Van Cieti | Xa Ngan Thủy | Chat |
| | Bài Chái M Bai Biến VIAND NT LỆ NI Mguyên Chi Ho | guyên INH ITICH | U.B.N.O.t | HE SHOW NAME OF THE STATE OF TH | TICH |

| Central Regions Rural Water Su Consulting Services for Proje | upply and Sanitation Sector Project ect Implementation Assistance | Safeguards Monitoring Repor Jan ÷ Jun2016 Le Thuy district, Quang Binh province 36 |
|---|--|---|
| | | |
| | | |
| | | |
| | | |
| Annex 3 Raw w | rater quality analysis | |
| | | |
| | | |
| | | |

Original





TÔNG CỤC TIỂU CHUẨN ĐO LƯỚNG CHẤT LƯỢNG TRUNG TÂM KỸ THUẬT TIỆU CHUẨN ĐO LƯỚNG CHẤT LƯỢNG 2

DIRECTORATE FOR STANDARDS, METROLOGY AND QUALITY

QUALITY ASSURANCE & TESTING CENTRE2

Website: quatest2.com.vn; Email: quatest2@quatest2.com.vn

Trang/Page: 1/1

PHIẾU KẾT QUẢ THỬ NGHIỆM

Ngày/Date of issue: 20/1/2016

TEST REPORT

1. Tên mẫu/Name of sample:

Số/Nº: 366 - K8/ 661 /KT2-HC2

2. Khách hàng/Client:

Liên danh Cty CP Lắp máy điện nước & Xây dựng -Cty TNHH Tư vấn XDTH Quảng Ninh - Cty CP ĐTXD Hiệp phát

3. Địa chỉ/Address:

4. Ngày nhận mẫu/Date of receiving:

17/1/2016

5. Ngày thủ nghiệm/Date of testing:

Từ ngày/From: 18/1/2016 đến ngày/To: 19/1/2016

6. Tinh trang mau/Condition of sample:

Mẫu khoảng 1,5 lít, được chứa trong chai nhựa, bảo quần lạnh

7. Ký hiệu mẫu/Mark of sample:

8. Số lượng mẫu/Quantity: 01

9. Kết quả thử nghiệm/Test results:

| TT Items | TÊN CHÌ TIÊU, ĐƠN VỊ TÍNH Test properties, unit | | PHƯƠNG PHÁP THỬ Test methods | KÉT QUẢ THỬ NGHIỆM Test results | |
|-------------|--|---|---|------------------------------------|--|
| | Hàm lượng 2,4-D μg/L | Ref. Application Note 5989- 5320 EN (LC/MS/MS) | | | |
| 2. | Hàm lượng 2,4,5-T | μg/L | Ref. Application Note 5989- 5320 EN (LC/MS/MS) | KPH (< 1,0) | |
| 3. | Hàm lượng Paraquat | µg/L | Ref. TCVN 8667:2011 (LC/MS/MS) | KPH (< 10) | |

Ghi chú: KPH: Không phát hiện

10. Nhận xét/Comment:

- Tên mẫu, kỳ hiệu mẫu, tên khách hàng được ghi theo yêu cầu của khách hàng/The sample, mark, client are named by client's requirements.
 Kết quả thứ nghiệm chỉ có giá trị trên mẫu thứ do khách hàng gôi đến/The test results are valid only for the received sample from client.
 Phiếu kết quả này không được trích sao nêu chưa có sự động ý bằng văn bản của Trung tâm Kỹ thuật 2/This test report not be reproduced except in full without the written approval of Quatest 2.

- (*): Phép thứ được BoA công nhận/Test method is accreditated by BoA

PHU TRÁCH PHÒNG KỸ THUẬT 8 Head of Technical Division 8

GIÁM ĐÓC

Huỳnh Quốc Án

KT2.QT.50/B.04/17.1.2016

P O NAS OLIGIN & 97 LV Thai TA - FIS NIGHY Fay 3910084 - 3870889 DT /Anan māi ii 0511 3848378 - 3833008 KB toán 3830566 K1 3831824 K2 3848330

Translation Raw water quality analysis

Limiting

| No. | Parameter | Unit | Jan 14, 2016 | value set in QCVN 08-MT 2015/BTN MT, column A2 ⁷ |
|-----|---|------------|-----------------|---|
| 1 | рН | | 8.1 | 6.0÷8.5 |
| 2 | Turbidity | NTU | 3 | 5 |
| 3 | Hardness | mg/l | 42 | 350 |
| 4 | Total Fe | mg/l | 0.1 | 0.5 |
| 5 | Chloride (Cl ⁻) | mg/l | 8.67 | 400 |
| 6 | Nitrat (NO ₃ ⁻) (calculating by N) | mg/l | < 0.001 | 5 |
| 7 | Nitrit (NO ₂ -) (calculating by N) | mg/l | < 0.001 | 0.02 |
| 8 | Total suspended solids (TSS) | mg/l | 6 | 30 |
| 9 | Arsenic (As) | mg/l | < 0.002 | 0.02 |
| 10 | PO ₄ ³⁻ (calculating by P) | mg/l | < 0.01 | 0.2 |
| 11 | DO | mg/l | 4.8 | ≥5 |
| 12 | BOD ₅ | mg/l | 7 | 6 |
| 13 | COD | mg/l | 14 | 15 |
| 14 | Odor | | No odor | No odor |
| 15 | Total coliform | MPN/100 ml | 110 | 5000 |
| 16 | E.coli | MPN/100 ml | 0 | 50 |
| 17 | Lindan | μl/g | < 0.002 | 0.35 |
| 18 | DDT | μl/g | < 0.003 | 1.0 |
| 19 | Endosulfan | μl/g | < 0.001 | 0.01 |
| 20 | Parathion | μl/g | < 0.01 | 0.2 |
| 21 | Malthion | μl/g | < 0.02 | 0.32 |
| 22 | 2,4-D | μl/g | BDL | 200 |
| 23 | 2,4,5-D | μl/g | BDL | 100 |
| 24 | Paraquat | μl/g | BDL | 1200 |

08:2008/BTNMT National technical regulation on surface water quality.

⁷ The limiting value set applied in the above table is adapted from QCVN 08-MT:2015/BTNMT National technical regulation on surface water quality which was issued on 21st December 2015 to replace QCVN

Annex 4 Photographs



Figure 2 SIEE disclosure at Ngan Thuy CPC (1) (May 2015)

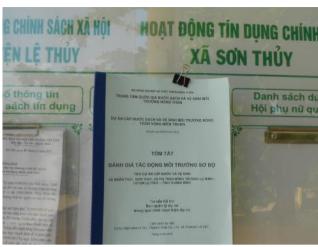


Figure 3 SIEE disclosure at Son Thuy CPC (May 2015)

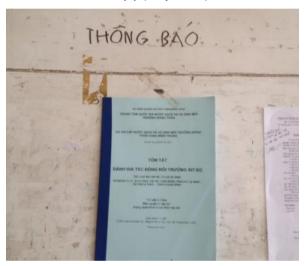


Figure 4 SIEE disclosure at Le Ninh farmtown People's Committee (May 2015)



Figure 5 Environmental training for WSCCs and HSPs in Dong Hoi city (May 2015)





Figure 6 Training course on "Contract and Construction Quality Management" (Nov. 2015)

Figure 7 Access road to WTP (Nov. 2015)





Figure 8 Leveling and grading of WTP site (Nov. 2015)

Figure 9

Installation of transmission pipe (Nov. 2015)







Figure 10 Public latrine from outsite (Nov. Figure 11 2015)

1 Inside a public latrine (Nov. 2015)





Figure 12 Participation of Ethnic Minority people on the training course on CBA-IEC action plan implementation and M&E





Figure 13 Ethnic minority households have provided latrine substructure in Ngan Thuy commune





Figure 14 Head of HH andrelation together received compensation payment (the left picture: father and son; the right pictures: Husband and wife)





Figure 15 Affected Households with spouse together received compensation payment

| Central Regions F Consulting Serv | Rural Water Supply and Sanitation Sector Project rices for Project Implementation Assistance | Safeguards Monitoring Repor Jan÷Jun2016 Le Thuy district, Quang Binh province 47 |
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| Annex 4 | IEE Addendum and Endorsemen | t Letter |
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ADDENDUM to

IEE of The Subproject of Ngan Thuy and Son Thuy Communes and Le Ninh Farm Town, Le Thuy District, Quang Binh Province

Comparison between Subproject Appraisal Report (SAR) and Detail Design (DD) configurations

1. Project Description

The Water Supply and Sanitation Subproject (WSSS) for Ngan Thuy and Son Thuy Communes and Le Ninh Farm Town, Le Thuy District, Quang Binh Province has been selected as one of eight Subprojects in Batch 2 of the Central Region Rural Water Supply and Sanitation Sector Project (CRRWSSSP) to be implemented under the Loan Agreement No. 2609 – VIE (SF) between the Socialist Republic of Vietnam (GoV) and the Asian Development Bank (ADB). The Subproject includes the construction and operation of a sustainable piped water supply system for 03 communes, and improved household hygiene and public sanitation in the Subproject area.

- Construction and operation of a piped water supply system for 3 communes with a capacity of 2,200 m³/d serving a population of approximately 15,560 people by 2025;
- Provision of in-kind grants for construction of substructure of household latrines to about 404 poor households and near-poor female-headed households with women being the sole income providers;
- Establishment of Sanitation Revolving Fund and provide about 1,096 loans to non-poor households for construction or rehabilitation of hygienic latrines;
- The subproject will provide hygienic septic tank latrines to 3 school latrines with separate compartments for men and women;
- Promotion of community participation in subproject implementation; carry out subproject CBA-IEC Plan to increase awareness of hygiene and sanitation among local people in the project area; formation and training of Water and Sanitation Commune Committee (WSCC), including recruitment and training of Health and Sanitation Promoters;
- Strengthened sector planning and implementation capacity by training of O&M staff for the water supply systems, improvement of M&E of water and sanitation investments through promotion of community involvement in

data collection and evaluation, capacity building of provincial and commune VWUs to manage sanitation revolving fund; and

• Improved project management capacity by training and support of PPMU, provincial and commune WUs, WSCC and HSPs on: (i) contract management; (ii) financial management; (iii) social and gender awareness; (iv) social safeguards implementation and monitoring; (v) planning and budgeting; (vi) accounting and bookkeeping; (vii) procurement.

During the Subproject preparation phase the IEE report document including Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMoP) was approved by the ADB as part of the Subproject Appraisal Report (SAR) of Le Thuy District, Quang Binh batch-2 Water Supply and Sanitation Subproject. This addendum to the IEE of Le Thuy District, Quang Binh batch-2 Subproject has been prepared based on the finalized Detailed Design and provides information on the changes in the Subproject for updating the IEE.

2. Comparison of Changes

There are no changes in the locations of the WTP and the supply network. The changes are in the scope of permanent and temporary land acquisition and minor changes in compensations for loss of crops and trees. These changes do not have influence on the findings of the Subproject's approved IEE Report.

The changes made to the Subproject during the Detailed Design and their impacts on environmental issues based on the Detailed Measurement Survey (DMS) and environmental assessment at the Subproject sites are shown in *Table 1*.

50

Table 9 Description of Changes made during Detailed Design by Subproject Component and their impacts on IEE Report.

| Component/ item | Changes between SAR and DD&DMS (Yes/ No) | Clarification and Impacts on IEE Report |
|---|--|---|
| I. Intake | | |
| 1. Raw water source | No | Still surface water from Cam Ly lake |
| 2. Intake (raw water pumping station and raw water pipelines) | Yes | In SAR stage, the land permanently acquired for construction of the intake was 470 m² private land used for planting trees while during DD&DMS, the permanently acquired land area has been confirmed to be about 730 m² public land used for planting trees. Thus, there are no changes to the anticipated environmental impacts, the approved EMP and EMoP. |
| II. Water Treatment Plant | | |
| 1. Location | No | |
| 2. Scope of land permanently acquired | Yes | The total area and type of permanently acquired land has remained more or less unchanged. Only the ownership has been changed. Thus, there are no changes to the anticipated environmental impacts, the approved EMP and EMoP. |
| 3. Scope of land temporarily acquired | No | No temporary land acquisition for WTP. |
| 4. Capacity | No | |
| 5. Treatment technology | No | The treatment technology is the |

| Component/ item | Changes between SAR and DD&DMS (Yes/ No) | Clarification and Impacts on IEE Report |
|---------------------------------------|--|--|
| | | same, yet the detailed engineering design has been adjusted due to the changes of land areas of two raw water reservoirs and WTP. |
| III. Access road no. 2 | | |
| 1. Access road no. 2 | Yes | Total land area permanently acquired for access road no. 2 has increased by approximately 1800 m ² . However, the land is still used for planting perennial trees and agro-forestry. Thus, there are no changes to the anticipated environmental impacts, the approved EMP and EMoP. |
| IV. Power line | | |
| 1. Power line | Yes | The total land permanently acquired has increased only by 100 m ² . One third of the area has been owned by Ngan Thuy CPC. Whether it is private or public land, the land has been used for planting crops and trees. Thus, there are no changes to the anticipated environmental impacts, the approved EMP and EMoP. |
| V. Transmission pipelines | | |
| 1. Area of service coverage | No | |
| 2. Scope of land permanently acquired | No | No permanent land acquisition for installation of raw water and clean water pipelines |
| 3. Scope of land temporarily acquired | Yes | Area of raw water pipeline temporarily acquired has decreased by roughly 15,000 m ² . Thus, there are no changes to the anticipated |

| Component/ item | Changes between SAR and DD&DMS (Yes/ No) | Clarification and Impacts on IEE Report |
|---|--|--|
| | | environmental impacts, the approved EMP and EMoP. |
| VI. Sanitation and drainage components | | |
| 1. Public latrines | No | |
| 2. Household latrines | No | |
| VII. Structures/ assets | | |
| Private structures/ assets 2. Public structures/ assets | Yes | Based on the result of DMS, the main affected structures of 03 households include reinforced concrete columns, reinforced concrete slabs and storehouse. The affected people will be compensated for the relocation of structures and business disruption allowances. Thus, there are no changes to the anticipated environmental impacts, the approved EMP and EMoP. Based on the Basic Design and Detail Design, there are no cultural/aesthetic architectural buildings or structures that will be affected. |
| VIII. Other aspects | | |
| 1. New findings about the potentially affected fauna/ flora species or protected structures | No | No new findings about the potentially affected fauna/ flora species or protected structures |
| 2. Other newly found aspects that can potentially create significant impacts | No | No newly found aspects that can potentially create significant impacts |

Safeguards Monitoring Report Jan÷ Jun 2016 Le Thuy district, Quang Binh province

Based on the above assessment and findings the Rapid Environmental Assessment (REA) checklist and the checklist for Preliminary Climate Risk Screening of the Subproject does not change after the Detailed Design stage.

3. Conclusion

The modifications made at the detailed design stage compared to the SAR preparation stage do not materially affect the findings of the IEE Report of Le Thuy District, Quang Binh batch-2 Subproject. As a result, the approved IEE including the EMP and EMoP of the aforementioned Subproject is still applied for the Subproject.

CENTRAL REGION RURAL WATER SUPPLY AND SANITATION SECTOR PROJECT

ADB Loan No. 2609-VIE (SF))

ENDORSEMENT OF ADDENDUM TO THE IEE REPORT OF

WATER SUPPLY AND SANITATION OF

NGAN THUY AND SON THUY COMMUNES AND LE NINH
FARMTOWN – LE THUY DISTRICT – QUANG BINH PROVINCE

This endorsement has been prepared based on a combination of observations made during field visits and designs made by third parties. The CPMU, PPMU and PIA Consultant have to the extent reasonably possible validated and verified the information in the IEE report and its appendices. To the best of our belief and knowledge, the included information in this addendum is reasonably accurate and correct.

Quang Binh PPMU

Nguyễn Văn Được Director PIA Consultant

Esko Toivonen Team Leader Luong Văn Anh Vice Director

CPMU



DANH SÁCH NHẬN TIỀN BỔI THƯỜNG, HỖ TRỢ, TĐC TIỀU DỰ ÁN: CÁP NƯỚC SẠCH VÀ VSMT CỤM XÃ NGÂN THỦY, SƠN THỦY VÀ NT LỆ NINH HUYỆN LỆ THỦY

Địa điểm: xã Ngân Thủy - huyện Lệ Thủy - tính Quảng Bình.

| | | | Giá trị b | ồi thường, hỗ trợ (| Giá trị bồi thường, hỗ trợ (VN đồng) | | | ghi rõ họ tên |
|-----|------------------|-------------------|------------------------|------------------------------|---|-------------|-------------|----------------|
| Stt | Họ và tên | Bồi thường đất | Công trình trên đất | Hoa màu, cây cối trên đất | Các khoản hỗ trợ (chưa bao gồm thường tiến độ) | Tổng cộng | Chồng | Vợ |
| 1 | Nguyễn Thế Vân | 15.673.200 | - | 7.937.000 | 105.666.000 | 129.276.200 | vân | Xuen |
| 2 | Nguyễn Thị Điểm | 13.874.400 | - | 7.026.000 | 99.357.000 | 120.257.400 | | Diem |
| 3 | Nguyễn Văn Thuận | 1,696.800 | 7 | 3.215.000 | 9.684.000 | 14.595.800 | Law Low Una | |
| 4 | Nguyễn Văn Trạng | 15.726.000 | 20.574,000 | 2.281.000 | 90.838.000 | 129.419.000 | Those | Eran Uni Ve |
| 5 | Lê Văn Sum | 18.764.000 | | 8.131.000 | 106.955.000 | 133.850.000 | 9 mm | Than the Ve |
| 6 | Trần Văn Hà | 9.238.000 | 149.045.000 | 1.931.000 | 61.657.000 | 221.871.000 | | Ha Africa |
| 7 E | Bùi Ngọc Văn | 102.000 | 2.160.000 | 100.000 | 581.000 | 2.943.000 | | vo thixail |
| 8 N | Vguyễn Thế Hải | - | - | 2.889,000 | - | 2.889.000 | | rguger Bri Lan |
| | Cộng | 75.074.400 | 171.779.000 | 33.510.000 | 474.738.000 | 755.101.400 | | |

ĐẠI ĐIỆN BAN BỔI THƯỜNG, TÁI ĐỊNH CỦ HUYỆN LỆ THỦY ĐẠI DIỆN BAN QLDA CẬP NƯỚC SẠCH VÀ VSMT NT VÙNG MIỀN TRUNG TỈNH QUẢNG BÌNH (M) Lệ Thủy, ngày 23 tháng to năm 2015

ĐẠI Đ**IỆN U**BND XÃ NGÂN THỦY

Guyen Van Chite

Con! Him

DANH SÁCH NHẬN TIỂN THƯỚNG TIẾN ĐỘ BÀN GIAO MẬT BẰNG TIỂU DỰ ÁN: CẬP NƯỚC SẠCH VÀ VSMT CỤM XÃ NGÂN THỦY, SƠN THỦY VÀ NT LỆ NINH HUYỆN LỆ THỦY

Địa điểm: xã Ngân Thủy - huyện Lệ Thủy - tỉnh Quảng Bình.

| | | Thời gian hộ gia đình | Tiền thưởng tiến độ (VN đồng) | Ký nhận và ghi rõ họ tên | |
|-----|------------------|-----------------------|-------------------------------|--------------------------|-------|
| Stt | Họ và tên | bàn giao mặt bằng | | Chồng | Vợ |
| 1 | Nguyễn Thế Vân | 29.110/2015 | 397.000 | | Xuão |
| 2 | Nguyễn Thị Điểm | 29/10/201T | 351.000 | | Diem |
| 3 | Nguyễn Văn Thuận | 29./10/2010 | 161.000 | The | |
| 4 | Nguyễn Văn Trạng | 22.110/2015 | 1.143.000 | Tour | |
| 5 | Lê Văn Sum | 29. /1.0/2015 | 407,000 | Sun | |
| 6 | Trần Văn Hà | 19/10/2015 | 10.000.000 | | |
| 7 | Bùi Ngọc Văn | 29/10/2015 | 113.000 | | Lach |
| 8 | Nguyễn Thế Hải | 29/10/2015 | 144.000 | | & Jan |
| | Cộng | | 12.716.000 | | |

Lệ Thủy, ngày tháng năm 2015

ĐẠI DIỆN BAN BỔI THƯỜNG, TÁI ĐỊNH CƯ HUYỆN LỆ THỦY ĐẠI DIỆN BAN QLDA CẮP NƯỚC SẠCH VÀ VSMT NT VÙNG MIỆN TRUNG TỈNH QUẢNG BÌNH

DUM

Und

ĐẠI DIỆN UBND XÃ NGÂN THỦY

Nguyễn Văn Hùng

| | ural Water Supply and Sanitation Sector Project ses for Project Implementation Assistance | Safeguards Monitoring Report Jan ÷ Jun 2016 Le Thuy district, Quang Binh province |
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| Annex 6 | The specific dates of the C Le Thuy Sub | BA-IEC Action Plan activities in project |
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Organizing Green Saturday activities

| Subproject | Commune | Hamlet | Specific Dates | |
|--|----------------------|----------------------|---|--|
| | Le Ninh Farm Town | 2A Hamlet | 27/01/2016; 26/03/2016; 20/05/2016; 26/06/2016 | |
| | | 2B Hamlet | 27/01/2016; 27/4/2016 | |
| | | 2C Hamlet | 08/08/2015; 18/05/2016 | |
| | | 3A Hamlet | 25/02/2016; 19/3/2016; 25/06/2016; 19/5/2016 | |
| | | 3B Hamlet | 05/03/2016; 15/5/20 16 | |
| | | 4 Hamlet | 06/03/2016; 16/05/2016 | |
| | | 5 Hamlet | 06/03/2016; 22/01/2016; 20/05/2016; 22/6/2016 | |
| | | 6 Hamlet | 23/03/2016; 26/03/2016; 20/05/2016 | |
| | | Lien Co Hamlet | 26/01/2016; 06/03/2016; 20/05/2016; 06/2016 | |
| | | Quyet Tien Hamlet | 26/01/2016; 06/03/2016; 20/05/2016; 06/6/2016 | |
| | | Phu Cuong Hamlet | 23/01/2016; 05/03/2016; 20/05/2016; 05/06/2016 | |
| | | 1 Hamlet | 23/01/2016; 04/03/2016; 20/05/2016; 04/6/2016 | |
| | Ngan Thuy | Cam Ly Hamlet | 18/1/2016; 25/2/2016; 6/3/2016; 9/04/2016; 18/05/2016; 11/06/2016 | |
| Le Thuy | | Cua Mec Hamlet | 20/01/2016; 25/02/2016; 10/3/2016; 22/04/2016; 15/05/2016; 10/06/2016 | |
| subproject – Quang Binh Province | Son Thuy | Vinh Quang Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 29/04/2016; 21/05/2016 | |
| | | My Duc Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 18/04/2016; 25/05/2016 | |
| | | Lai Xa Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 20/04/2016; 20/05/2016 | |
| | | Trung Tin Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 29/04/2016; 20/05/2016 | |
| | | Hoang Vien Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 29/04/2016; 20/05/2016 | |
| | | Loc Xa Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 29/04/2016; 20/05/2016 | |
| | | My Hoa Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 20/04/2016; 20/05/2016 | |
| | | Ngo Xa Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 20/04/2016; 20/05/2016 | |
| | | Hoang Dam Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 29/04/2016; 20/05/2016 | |
| | | Ngo Bac Hamlet | 31/01/2016; 28/02/2016; 27/03/2016; 20/04/2016; 20/05/2016 | |

Organizing Hamlet Meetings

| Subproject | Commune | Hamlet | Specific Dates | |
|---------------------|----------------------|----------------------|--|--|
| | Le Ninh Farm Town | 2A Hamlet | Once time in quarter 1 and once time in quarter 2 | |
| | | 2B Hamlet | 28/02/2015; 28/05/2015 | |
| | | 2C Hamlet | 24/02/2016; 03/2016; 24/04/2016; 05/06/2016 | |
| | | 3A Hamlet | 15/01/2016; 08/03/2016; 15/04/2016; 08/05/2016 | |
| | | 3B Hamlet | 19/01/2016; 08/03/2016; 19/04/2016; 08/06/2016 | |
| | | 4 Hamlet | 26/04/2016; 08/03/2016; Once time in quarter 2; 08/6/201 | |
| | | 5 Hamlet | 13/04/2016; 07/03/2016; 13/05/2016; 07/06/2016 | |
| | | 6 Hamlet | 14/01/2016; 08/03/2016; 08/06/2016 | |
| | | Lien Co Hamlet | 18/01/2016; Once time in quarter 1; 18/04/2016; Once time in quarter 2 | |
| | | Quyet Tien Hamlet | 27/02/2016; 08/03/2016; 27/04/2016; 08/06/2016 | |
| | | Phu Cuong Hamlet | 22/02/2016; 08/03/2016; 22/05/2016; 08/06/2016 | |
| Le Thuy | | 1 Hamlet | 25/01/2016; 08/03/2016; 25/04/2016; 08/06/2016 | |
| subproject – Quang | Ngan Thuy | Cam Ly Hamlet | 15/01/2016; 28/02/2016; 16/04/2016; 10/5/2016; 12/6/2016 | |
| Binh Province | | Cua Mec Hamlet | 12/1/2016; 22/02/2016; 01/03/2016; 10/4/2016; 15/5/2016 1/6/2016 | |
| | Son Thuy | Vinh Quang Hamlet | 15/01/2016; 12/5/2016; 29/5/2016 | |
| | | My Duc Hamlet | 15/01/2016; 25/3/2016; 10/5/2016; 19/6/2016 | |
| | | Lai Xa Hamlet | 25/02/2016; 12/5/2016; 29/5/2016 | |
| | | Trung Tin Hamlet | 20/01/2016; 25/3/2016; 12/5/2016; 29/5/2016 | |
| | | Hoang Vien Hamlet | 20/01/2016; 25/02/2016; 29/4/2016; 29/5/2016 | |
| | | Loc Xa Hamlet | 16/02/2016; 16/03/2016; 28/4/2016; 29/5/2016 | |
| | | My Hoa Hamlet | 26/01/2016; 18/03/2016; 12/4/2016; 29/5/2016 | |
| | | Ngo Xa Hamlet | 21/02/2016; 30/3/2016; 12/5/2016; 29/5/2016 | |
| | | Hoang Dam Hamlet | 10/01/2016; 20/3/2016; 12/5/2016; 29/5/2016 | |
| | | Ngo Bac Hamlet | 12/01/2016; 30/03/2016; 12/5/2016; 22/6/2016 | |

61

Households visiting and communicating

| Subproject | Commune | Hamlet | Specific Dates | |
|---------------------------|----------------------|----------------------|--|--|
| | Le Ninh Farm Town | 2A Hamlet | On January 2016; On March 2016; On May 2016; On June 2016 | |
| | | 2B Hamlet | On Feb2016; On March 2016; On April 2016; On June 201 | |
| | | 2C Hamlet | 24 ->28/1/2016; 22 ->28/2/2016; 8->22/3/2016; From 24 to 28/4/2016; From 22 to 28/5/2016; From 8 to 22/6/2016 | |
| | | 3A Hamlet | From 10 to 30 January 2016; From 5 to 15 February 2016; From 15 to 25 March 2016; From 10 to 30 April 2016; From 5 to 15 May 2016; From 15 to 25 June 2016 | |
| | | 3B Hamlet | 05->15/01/2016; 20->22/2/2016; 07->15/3/2016; From 05 15/04/2016; From 20 to 22/5/2016; From 07 to 15/6/2016 | |
| | | 4 Hamlet | 10 -> 15/1/2016; 15 -> 20/2/2016; 10 -> 25/3/2016; From 10 -> 15/4/2016; From 15 -> 20/5/2016; From 10 -> 25/6/2016 | |
| | | 5 Hamlet | 05->17/01/2016; 10->17/2/2016; 05->14/3/2016; From 05- 17/04/2016; From 10-17/5/2016; From 05-14/6/2016 | |
| | | 6 Hamlet | 05->13/1/2016; 20->27/2/2016; 15->21/3/2016; From 05- 13/4/2016; From 20-27/5/2016; From 15-21/6/2016 | |
| Le Thuy | | Lien Co Hamlet | From 10 -> 17/01/2016; From 20->27/2/2016; From 15-22/3/2016; From 10-17/04/2016; From 20-27/5/2016; Fron 15-22/6/2016 | |
| subproject - Quang Binh | Ngan Thuy | Cam Ly Hamlet | 10/01/2016; 25/02/2016; 15/04/2016; 15/05/2016; 10/06/2016 | |
| Province | | Cua Mec Hamlet | 12/01/2016; 20/02/2016; 12/04/2016; 15/05/2016; 6/06/20 | |
| | Son Thuy | Vinh Quang Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016 | |
| | | My Duc Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 10/04/2016 25/05/2016; 12/06/2016 | |
| | | Lai Xa Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016 20/05/2016; 21/06/2016 | |
| | | Trung Tin Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016 20/05/2016 | |
| | | Hoang Vien Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016 | |
| | | Loc Xa Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016 | |
| | | My Hoa Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016 20/05/2016; 21/06/2016 | |
| | | Ngo Xa Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016; 21/06/2016 | |
| | | Hoang Dam Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016 | |
| | | Ngo Bac Hamlet | 05-14/01/2016; 10-25/02/2016; 01-25/03/2016; 12/04/2016; 20/05/2016 | |

Safeguards Monitoring Report Jan ÷ Jun 2016 Le Thuy district, Quang Binh province