Environmental Monitoring Report

Semi-annual Environmental Monitoring Report July - December 2017 Project 40253-023

Loan 2721-Vie

Viet Nam: Greater Mekong Subregion Biodiversity Conservation Corridors Project

Prepared by the Project Management Unit for the Asian Development Bank.

ACRONYMS AND ABBREVIATIONS

ADB - Asian Development Bank

AP - Affected people

BCC - Biodiversity Conservation Corridors Greater Mekong Sub-region

Project

CMF - Community Forest Management
 CPC - Commune People's Committee
 CPMU - Central Project Management Unit
 CSC - Construction Supervision Consultant

DONRE - Department of Natural Resources and Environment

DMF - Project Design and Management Framework

DPC - District People's Committee

EIAR - Environmental Impact Assessment Report

EARF - Environment Assessment and Review Framework

EMP - Environmental Management Plan
 EPP - Environmental Protection Plan
 IEE - Initial Environmental Examination

MONRE - Ministry of Natural Resources and Environment

PPC - Provincial People's Committee
PIU - Provincial Implementation Unit

RF - Resettlement Framework
SSI - Small Scale Infrastructure

CURRENCY EQUIVALENTS

(as of 31 December 2017)

Currency Unit – VND \$1.00 = 22675

ABBREVIATIONS

WEIGHTS AND MEASURES

dB(A) – Decibel (weighted average)

ha – hectare

kg/d – kilogram per day

km – kilometer

km² – square kilometer

m – meter

m² – square meter m³ – cubic meter

m³/d – cubic meters per day
m³/s – cubic meters per second
mg/m³ – milligrams per cubic meter

mm – millimeter

NOTE

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

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I. INTRODUCTION

A. Report Purpose and Rationale

1. The Environmental Monitoring Report is to evaluate the compliance with the environmental safeguards regulations of Greater Mekong Subregion Biodiversity Conservation Corridors Project (The Project) in the process of project implementation, as stipulated by the Vietnam's Law and the Asian Development Bank's Safeguard Policy Statement (SPS 2009). This Environmental Monitoring Report for the second half of 2017 aims at evaluating the compliance of the Project activities with the Project's Environmental Assessment and Review Framework (EARF) over the period July to December 2017.

B. Project Objective and Components

- 2. The 'Greater Mekong Sub-region Biodiversity Conservation Corridors project Vietnam Component' (referred to as BCC project) was approved through Decision No.2144/QD-BTNMT by Minister of Natural Resources and Environment, dated 11 November 2010. The project is implemented through a loan from the Asian Development Bank, co-financing from the Government of Vietnam, and contributions from project beneficiaries at its field implementation locations. The loan agreement between Asia Development bank and the Vietnam State Bank was signed on 5 May 2011, and the loan came into effect on 9 August 2011. Its implementation is from 2011 through 2019.
- 3. The BCC project design is embedded within a multipurpose, sustainable, biodiversity landscapes approach. The Project cover 35 communes in six districts across the three provinces and the communes that have been selected are (i) within the biodiversity corridor designed area, (ii) supporting ecosystem connectivity, (iii) considered poor communes, and (iv) holding good forest coverage to facilitate the connection of forest ecosystems. The project includes four specific components: (i) Institutional and community strengthening for biodiversity corridor management; (ii) Biodiversity corridor restoration, ecosystem protection, and natural resources sustainable management; (iii) Livelihood improvement and small-scale infrastructure supports; and (iv) Project management and supporting services. Through these, the project will:
 - Enhance capacities for central, provincial, district and communal levels in the project implementing areas in biodiversity corridor planning, corridor plan development and implementation;
 - Conduct forest rehabilitation and reforestation to the connectivity of biodiversity corridors and increase the medium-rich forest areas in the selected communes in the biodiversity corridor area; and
 - Propose solutions for livelihoods and Millennium development goals linked with smallscale infrastructure to contribute to reduce poverty and improve the living conditions of ethnic minorities in poor mountainous districts in the project area.

II. PROJECT IMPLEMENTATION PROGRESS

- 4. As of 31 December 2017, all project implementation arrangements such as operation and management establishment at all levels, staffing and technical consultants are on board. In March, 2017, MONRE (Executing agency) issued Decision No.392/QD-BTNMT dated March 15th, 2017 on the reappointment of the Central Steering Committee's members. The Central Steering Committee has conducted 2 official meetings in 2017 to discuss on difficulties and urge the project implementation at all levels. In addition, there are some more changes in personnel at provincial and district level that affect positively the project implementation progress in the field. Progress or achievements in implementation of the project in the fourth quarter of 2017 as well as in 2017 as a whole are summarized as follows:
- 5. At the time of writing the report, the implementation progress of the project activities has been steady. Activities under component 1 are on track while there are delays for several activities under component 2 and 3. Particularly, the slow implementation of key project activities such as issuing land use right certificates, forest restoration and Community Forest Management (CFM) in project provinces that lead to a high risk of not achieving the project targets with deadlines set out in the project design and monitoring framework (DMF).
- 6. Notwithstanding, the project has shown acceleration in some aspects of implementation; particularly in procurement procedures of bid packages "Documentation for forest resources investigation, measuring, cadastral records for issuing red books for community" in 3 provinces, small-scale infrastructure subprojects, selection of business development models, forest plantation and CFM activities.
- 7. Under component 1, a basis for the establishment and management of biodiversity corridors has been completed and further piloting is underway. Those initial institutional guidance at provincial and community levels will guide the subsequent activities for sustainable forest management in the entire central region landscapes.
- 8. Activities under Component 2 experienced some delay in forestation design and approval of the design results, and forest inventory. The forest restoration and commune forest management (CFM) related activities are progressing with ongoing implementation of contracts for forest inventory in Quang Tri and Quang Nam. In parallel with the forest inventory, SFM pilot activities (development and approval of guidelines and regulations, establishment of CFM operating and management arrangements) are completed. Trainings on patrolling are completed for the pilot sites in Quang Tri and Quang Nam, and will be implemented by January, 2018 in Thua Thien Hue which need to be replicated in all the CFM areas selected for BCC in the three participating provinces.
- 9. Activities under component 3 are generally on track among those business development activities start to resume after a stagnancy since November 2016 until July 2017 because official decision on the feasibility of the proposed models was not made for the proposed models. In addition, changes in CPMU staff in charge of the subcomponent and business development consultant replacement in CPMU also contributed to the delayed issuance of CPMU's further guidance in moving forward the subcomponent.
- 10. In addition, the Project is still included in the list to be closely monitored by the Ministry of Planning and Investment and ADB. Despite effort by the EA and VRM issues that prevent an effective project implementation are observed and caused an almost four-year implementation delay. The EA and the participating provinces are expected to pay greater attention to address those issues effectively so that project completion can be achieved by September 2019.
- 11. During 2017 in general and the fourth quarter of 2017 in particular, main aspects of project implementation included:
 - Issuing guidelines on corridors establishment and management at provincial level;

- Developing 3 provincial biodiversity corridor management plans for 3 provinces:
- Approval of Commune Investment Profiles Part II for livelihood development activities;
- Underway of implementing packages for issuing Land use certificates to communities and households;
- Implementation of community forest management (CFM) activities;
- Forest plantation (forest restoration and natural assisted regeneration, non-timber forest and livelihood forest planting);
- Finalization and submission of selected business development models to ADB for approval;
- Implementation of Livelihood improvement activities in forestry and agriculture, commune development fund (CDF) operations and management;
- Bidding and construction of small-scale infrastructure subprojects;
- Organization of an exchange visit to China to share experience and knowledge on establishment and management of Biodiversity conservation corridors;
- Organization of trainings and workshops on capacity building at all levels;
- Implementation of communication, monitoring and evaluation activities;
- Project management and support services.
- 12. Forest plantation: The project includes forestry interventions through 'eco-forest plantations', sought for implementation in the immediate surroundings of, or connecting CFM sites, protected and special-use forests in the conservation corridor landscape. Forest restoration methods under the project include reforestation, enrichment planting, assisted natural regeneration, and non-timber forest products which must be carried out with native species. Three-year tending after planting completion is needed according to the requirement of a normal process of forest plantation.
- 13. With the current progress, the DMF target of 6,000ha for forest restoration and its completion by 2017 will not be achieved. In addition, the tending period will be less than 03 years and thus would risk the forest sustainable management. With the short time remaining and decrease in the net loan value, it was agreed that the current eligible area of forest identified for plantation and regeneration/enrichment should be final in order to allow focus on plantation and tending/maintenance: Thua thien Hue 1,172.5 ha, Quang Tri 1,665.6ha, and Quang Nam 1,900 ha which has made a total of 4,738.1ha against the DMF target of 6,000ha.
- 14. By December 2017, the plantation has been completed for 3,831.1ha (Thua thien Hue 1,143.9ha, Quang Tri 1,333.4ha, and Quang Nam 1,353.8ha) for the period 2013 December 2017 against the identified of 10,208ha for restoration through the revised LUP and site mapping exercise vs the revised target of 4,738.1ha.
- 15. Planted forest maintenance and patrolling/protection of natural community forests. With the target to complete forest plantation and CFM activities by March 2018, and loan closing date of September 2019, only 1.5 year would remain for planted forest tending and implementation of 5-year plan for CFM. The planted forest need to maintain for at least 3 years before it is sustained, therefore, the tending and maintenance works will need to continue until 2021. Also, implementation of the 5-year CFM plan is expected to be continued until 2023.
- 16. Status of small-scale infrastructure subproject: As of December 2017, 24 among the current total of 69 subprojects have been completed and handed over. The number of the sites that were completed and handed over in Quang Nam is 7/25 sites, 13/22 sites in Quang Tri, and 4/22 sites in TT-Hue.
- 17. For Thua Thien Hue: There is a delay in the activities mainly because funds were not allocated to TTH PPMU for 2017 until end of November 2017. Agreement was reached during the last review mission that additional water supply subprojects will not be included in the investment list for Thua Thien Hue, therefore, replacements sites were proposed. Technical reports, including safeguard reports will need to be prepared for the additional

replacement sites, and be submitted for ADB for no objection. In order to achieve the progress for the SSIs, Thua Thien Hue PPMU is to submit final list of SSIs to CPMU and ADB, along with technical and safeguard reports, on or before 29 December 2017. However, to date, all required reports has not been finalized and submitted to ADB for review and approval yet.

Table 1 - List of all small-scale infrastructure subprojects under BCC Project -

No.	Subproject name	Location	C t	Status			
	QUANG TRI						
QT01	Upgrading of internal path in Hoong village	Huong Linh, Huong Hoa, Quang Tri	В	Completed in 07/12/2015			
QT02	Upgrading Village-Linking Road of Huc Nghi – La To villages	Huc Nghi, Dak Rong, Quang Tri	В	Construction start in Q1/2018			
QT03	Upgrading Village-linking road of Nguon Rao – Pin Villages	Huong Son, Huong Hoa, Quang Tri	В	Completed in 14/1/2016			
QT04	Upgrading of internal path in Ta Leng village	Dak Rong, Dak Rong, Quang Tri	С	Completed in 17/02/2016			
QT05	Upgrading of spillway road in Cat village	Dak Rong, Dak Rong, Quang Tri	С	Completed in November 2017			
QT06	Upgrading of internal path in Pa Hy village	Ta Long, Dak Rong, Quang Tri	С	Completed in 24/12/2015			
QT07	Upgrading of internal path in Ta Rut 2	Ta Rut, Dak Rong, Quang Tri	С	Completed in November 2017			
QT08	Upgrading of internal path in Ta Rut 1	Ta Rut, Dak Rong, Quang Tri	С	Completed in 16/2/2016			
QT09	Upgrading Ta Rec - Ta Mien inter-village road	Ba Nang, Dak Rong, Quang Tri	С	Construction start in Q1/2018			
QT10	Upgrading of access road to Ta Rung - Ka Tieng - Chai production area	Huong Viet, Huong Hoa, Quang Tri	С	Construction start in Q1/2018			
QT11	Upgrading of Kareng 1 - Pa Loang intervillage road	Huong Hiep, Dak Rong, Quang Tri	С	Construction start in Q1/2018			
QT12	Concretization of irrigation canals in Ta Nuc and Huc Thuong	canals in Ta Huc, Huong Hoa, Quang Tri		Completed in 30/4/2016			
QT13	Rehabilitation of irrigation canal in Cu Bai village	Huong Lap, Huong Hoa, Quang Tri	С	Completed in 19/2/2016			
QT14	Rehabilitation and upgrading of irrigation system in Cheng and Chenh Venh villages	Huong Phung, Huong Hoa, Quang Tri	С	Completed in 17/2/2016			
QT15	Field reclamation in Cu Dong village	Huc, Huong Hoa, Quang Tri	С	Completed in November 2017			
QT16	Kindergarten construction at Ba Ngay village	Ta Long, Dak Rong, Quang Tri	С	Construction start in Q1/2018			
QT17	Kindergarten construction at Moi village	Huong Son, Huong Hoa, Quang Tri	С	Completed in September 2017			
QT18	Communal house in Huong Do village	Huong Phung, Huong Hoa, Quang Tri	С	Completed in September 2017			

		1		T	
QT19	Communal house in Miet Cu village	Huong Linh, Huong Hoa, Quang Tri	С	Completed September 20	in 17
QT20	Kindergarten construction at Cuoi village Huong Lap		С	Construction in Q1/2018	start
QT21	Upgrading road to production area of Chenh Venh village Huong Hoa, Q Tri		С	Construction in Q1/2018	start
QT22	Rehabilitation and upgrading of irrigation system in Cup village	Huong Lap, Huong Hoa, Quang Tri	С	Construction in Q1/2018	start
	QUANG			-,	
QN01	Concrete road in Bhlo 1	A Vuong, Tay Giang, Quang Nam	С	Completed 17/8/2016	in
QN02	Upgrading concrete road to A Banh 2 village	Tr'Hy, Tay Giang, Quang Nam	В	Expected complete 24/4/2018	to in
QN03	Inner concrete road in Dak Ngon village	La Ea, Nam Giang,	В	Completed	in
01104		Quang Nam		September 20	
QN04	Concrete road in A Ruung village	Bhalee, Tay Giang, Quang Nam	С	Completed 10/10/2016	in
QN05	Secondary school in La Dee commune (Function house)	La Dee, Nam Giang, Quang Nam	С	Construction in Q1/2018	start
QN06	Concrete road in Bhlooc, Bhalee commune	Bhalee, Tay Giang, Quang Nam	С	Expected complete 26/2/2018	to in
QN07	Inner road in Dam village	Tr'Hy, Tay Giang, Quang Nam	С	Expected complete 28/1/2018	to in
QN08	Auxiliary infrastructure of Son Ca kindergarten	Bhalee, Tay Giang, Quang Nam	С	Expected complete 28/1/2018	to in
QN09	Drainage system in Gem settlement site, A Rot village	A Nong, Tay Giang, Quang Nam	С	Expected complete 12/3/2018	to in
QN10	Concrete road to A Chui production site	A Nong, Tay Giang, Quang Nam	С	Completed January 2017	in
QN11	Inner concrete road in Gem settlement site, A Rot village	A Nong, Tay Giang, Quang Nam	С	Expected complete 10/2/2018	to in
QN12	Concrete road from Glao village to Dading village	Gari, Tay Giang, Quang Nam	С	Construction in Q1/2018	start
QN13	Inter-village concrete road from Knoonh 1 to Knoonh 3	A Xan, Tay Giang, Quang Nam	С	Expected complete 25/3/2018	to in
QN14	Primary school for Re'h village	Ch'Om, Tay Giang, Quang Nam	С	Expected complete 5/3/2018	to in
QN15	Auxiliary infrastructure of Ta Lang residential site	Bhalee, Tay Giang, Quang Nam	С	Expected complete 27/2/2018	to in

QN16	Concrete road in T-Ghey village	A Vuong, Tay Giang, Quang Nam	С	Completed in 9/10/2016
QN17	Inner concrete road in Tr'lee residential site	A Tieng, Tay Giang, Quang Nam	O	Expected to complete in 10/2/2018
QN18	Household's toilets in cluster No.1 and No.2, R'bhuop village	A Tieng, Tay Giang, Quang Nam	С	Expected to complete in 8/3/2018
QN19	Household's toilets in Xa Oi 1	A Vuong, Tay Giang, Quang Nam	С	Expected to complete in 6/2/2018
QN20	Concrete road in Xa Oi 3 village	A Vuong, Tay Giang, Quang Nam	С	Completed in 26/9/2016
QN21	Concrete road in A Gioc village	Bhalee, Tay Giang, Quang Nam	С	Completed in 9/9/2016
QN22	Kindergarten in Pa Cang village	Ca Dy, Nam Giang, Quang Nam	С	Expected to complete in 6/2/2018
QN23	Inner concrete road in Pa Lanh village	Ca Dy, Nam Giang, Quang Nam	С	Expected to complete in 26/2/2018
QN24	Concrete road from Zlao residential cluster to communal center	Cho Chun, Nam Giang, Quang Nam	C	Expected to complete in 26/4/2018
QN25	Drainage system in Por'ning village, Lang commune	Lang, Tay Giang, Quang Nam	С	Construction start in Q1/2018
	THUA THI	EN HUE		
TH01	Concretization of A Tau canal	A Roang, A Luoi, Thua Thien Hue	С	Completed in 30/7/2017
TH02	Pa Ring - A Rom Inter-village path	Hong Ha, A Luoi, Thua Thien Hue	В	Not constructed yet
TH03	Internal path in Pa Hy village	Hong Ha, A Luoi, Thua Thien Hue	O	Completed in 19/11/2016
TH04	Upgrading of C5 and C8 water supply systems	Huong Phong, A Luoi, Thua Thien Hue	С	Not constructed yet
TH05	Road and submersible bridge to production area in Ka Non 2 village	Huong Lam, A Luoi, Thua Thien Hue	O	Not constructed yet
TH06	Upgrading of roads in village 5	Hong Kim, A Luoi, Thua Thien Hue	С	Not constructed yet
TH07	Access road to production area in Can Tom stream, Mu Nu village	Huong Nguyen, A Luoi, Thua Thien Hue	С	Completed in 31/12/2017
TH08	Construct water supply systems for 3 villages of Hong Van commune	Hong Van, A Luoi, Thua Thien Hue	С	Not constructed yet
TH09	Concretization of canals in Ka Cu 1 and Ka Cu 2 villages	Hong Van, A Luoi, Thua Thien Hue	С	Not constructed yet

TH10	Concretization of canals in Cha Du village	Huong Nguyen, A Luoi, Thua Thien Hue	С	Not constructed yet
TH11	Internal path village 3, Thuong Quang commune	Thuong Quang, Nam Dong, Thua Thien Hue	С	Completed in April 2017
TH12	Concretization of canals in village 3	Thuong Quang, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH13	Newly building of gravity clean water supply system in village 6	Thuong Quanq, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH14	Gravity water supply system in A Rang stream	Thuong Quang, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH15	Repairing of hygienic gravity water supply system to village 1 and village 3	Thuong Long, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH16	Repairing of hygienic gravity water supply system to village 2 and village 4	Thuong Long, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH17	New and hygienic gravity water supply system from Bien stream to village 5 and village 7	Thuong Long, Nam Dong, Thua Thien Hue	С	Not constructed yet
TH18	Newly building of communal house at the commune center	Hong Trung, A Luoi, Thua Thien Hue	С	Not constructed yet
TH19	Communal house in A So 1 village	Huong Lam, A Luoi, Thua Thien Hue	С	Not constructed yet
TH20	Upgrading of community house in Huong Phu and Huong Thinh villages	Huong Phong, A Luoi, Thua Thien Hue	С	Not constructed yet
TH21	Newly building of communal house in Viet Tien village	Hong Kim, A Luoi, Thua Thien Hue	С	Not constructed yet
TH22	Communal house in Huong Son village	A Roang, A Luoi, Thua Thien Hue	С	Not constructed yet
TH23	Internal path to production site of villlage 3	Thuong Quang, Nam Dong, Thua Thien Hue	N /A	Proposed subproject
TH24	Internal path to production site of village 5	Thuong Long, Nam Dong, Thua Thien Hue	N /A	Proposed subproject
TH25	Concrete road to Village No.7 production site	Thuong Quang, Nam Dong, Thua Thien Hue	N /A	Proposed subproject
TH26	Gravity flow water supply system for 3 village: A So 1; A So 2; Ba Lach	Huong Lam, A Luoi, Thua Thien Hue	N /A	Proposed subproject
TH27	Internal concrete road of A Tia 1 village	Hong Kim, A Luoi, Thua Thien Hue	N /A	Proposed subproject

TH28	Upgrading communal house of Ta-Ay	Hong Trung, A Luoi,	Ν	Proposed
	and A Nieng villages	Thua Thien Hue	/A	subproject
TH29	Inter-village road Cha Du - Nghia	Huong Nguyen, A	Ν	Proposed
		Luoi, Thua Thien	/A	subproject
		Hue		
TH30	Internal path in Dut village	Hong Trung, A Luoi,	Ν	Proposed
		Thua Thien Hue	/A	subproject
TH31	Internal path in Hong Van commune	Hong Van, A Luoi,	Ν	Proposed
		Thua Thien Hue	/A	subproject
TH 32	Concrete road to production site from A	Huong Phong, A	Ν	Proposed
	Sap bridge to Ba Re streamlet	Luoi, Thua Thien	/A	subproject
		Hue		
TH 33	Concrete road to Village No.1 production	Thuong Quang, Nam	Ν	Proposed
	site	Dong, Thua Thien	/A	subproject
		Hue		
TH 34	Building fence, playing ground and toilet	Thuong Long, Nam	Ν	Proposed
	of Village No.5	Dong, Thua Thien	/A	subproject
		Hue		
TH 35	Building fence, playing ground and toilet	Thuong Long, Nam	Ν	Proposed
	of Village No.7	Dong, Thua Thien	/A	subproject
		Hue		
TH 36	Internal path to Ar Tang production site of	Hong Ha, A Luoi,	Ν	Proposed
	Pahy village	Thua Thien Hue	/A	subproject

- 18. The implementation progress of small-scale infrastructure subprojects is still slow in the monitoring period, especially for Thua Thien Hue province.
- 19. In 6 Category B subprojects, 3 have been completed. QT01 and QT03 have been completed in 2015 and 2016 respectively while QN03 has been completed in September 2017. QT02 will start construction in the first quarter of 2018 while QN02 has started construction and expected complete in the end of April 2018. TH02 Pa Ring A Rom Inter-village path in Hong Ha commune, A Luoi district, Thua Thien Hue has not start constructed yet.
- 20. For category C subprojects, in Quang Tri province, there are 6 category C subprojects including QT05; QT07; QT15; QT17; QT18; QT19 has been completed in the monitoring period. Overall, 14/22 subprojects of Quang Tri has been completed. 8/22 remain subprojects will start construction in the first quarter of 2018 including Q102; QT09; QT10; QT11; QT16; QT20; QT21 and QT22. For Quang Nam province, 6/24 category C subprojects have been completed. Of which, QN10 Concrete road to A Chui production site has just completed in January 2017. In 18/24 remain category C subprojects, 15 have started construct and expected to complete in Q1 and Q2 of 2018. QN05; QN12 and QN25 have not started construct yet.
- 21. 4/21 existing category C subprojects of Thua Thien Hue province have been completed (TH01; TH03; TH07; and TH11). Of which, TH07 Access road to production area in Can Tom stream, Mu Nu village has just completed in the end of 2017. Thua Thien Hue PIU has also proposed 14 new subprojects (TH23 to TH36). At the end of January 2018, these subprojects still have not screened for environment and climate change impacts and Rapid Environmental Examination (REA) has not been prepared.

III. INSTITUTIONAL SETUP AND RESPONSIBILITIES FOR EMP IMPLEMENTATION AND SUPERVISION

A. Institutional responsibilities for environmental management

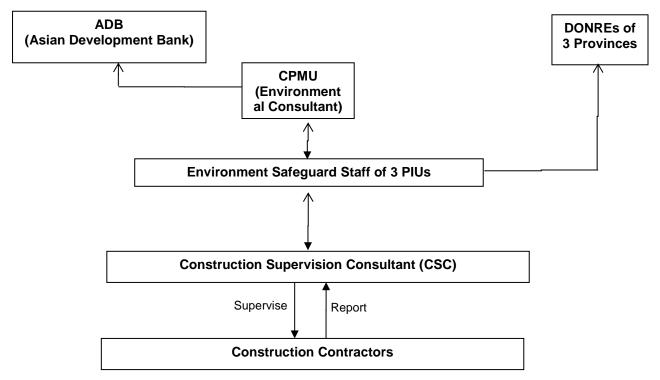


Figure 1 - Environment Management Organization Chart of BCC Project

- 22. The Environment Management Organization of the Project is illustrated in the chart above. There is no independent environmental supervision consultant as the small scale of subprojects. CSC of each subproject is also responsible for daily environmental monitoring at the subproject's site during the construction period.
- 23. List of environmental management personnel of the Project is shown in Table 2 below.

No.	Name	Position	Contact
1	Nguyen Thanh Duong	CPMU's Consultant	nguyenthanhduong@gmail.com
2	Tran Ha Dien	Quang Nam PIU's Officer	h.dientran@gmail.com
3	Luu Thi Binh	Quang Tri PIU's Officer	cumy171@gmail.com
4	Van Duc Chung	Thua Thian Hua PILI's Officer	chungducyn@gmail.com

Table 2 - List of environmental management personnel

B. Incorporation of Environmental Requirements into Project Contractual Arrangements

- 24. The environmental protection regulations have been defined clearly in the contract with the construction contractors:
- The Contractor must apply suitable mitigation measures (as described in the IEE for Category B subproject and in the REA for Category C subproject) in all construction sites to minimize impacts to local people's lives and properties from the subproject construction's activities.
- The Contractor must ensure that powered mechanical equipment and vehicle emissions to meet national TCVN/QCVN standards. All construction equipment and vehicles shall have valid certifications indicating compliance to vehicle emission and noise creation standards.

IV. COMPLIANCE WITH ENVIRONMENT RELATED PROJECT COVENANTS

25. In accordance to Loan Agreement's and Loan covenants, the implementation of the Project should comply with the Schedule 5.

Table 3. Checklist on EMP compliance with Loan Covenant

	Environmental Safeguard Requirement in Loan covenant	Status of compliance
Schedule 5	The Borrower shall ensure that the Project facilities are constructed and operated in compliance with the Borrower's applicable environmental laws and regulations and ADB's Safeguard Policy Statement (2009), and that no Subproject with significant adverse environmental impacts is financed under the Project. In particular, the Borrower shall cause MONRE and PPC to ensure that Subprojects are carried out in accordance with environmental assessment procedures provided in the environmental assessment and review framework, and the respective Subproject environmental management plans as agreed between the Borrower and ADB.	Complied with
Schedule 5	- The Borrower shall cause MONRE and PPC to ensure that no Subproject with Category A environmental criteria as defined in the Safeguard Policy Statement, is financed under the Project.	Complied with

26. The applicable environmental laws and regulations of Vietnam are as follow:

1. Laws

- Law No. 55/2014/QH13 of 23 June 2014 by the National Assembly on environment protection
- Law No. 17/2012/QH13 of 21 June 2012 by the National Assembly on water resources
- Law No. 20/2008/QH12 of 13 November 2008 by the National Assembly on biodiversity
- Law No. 68/2006/QH11 of 29 June 2006 by the National Assembly on standards and technical regulations
- Law No. 29/2004/QH11 of 03 December 2004 by the National Assembly on forest protection and development

2. Decrees and Regulations

 Decree No. 18/2015/ND-CP dated February 14, 2015 on environmental protection planning, strategic environmental assessment, environmental impact assessment and environmental protection plans.

- Circular No. 27/2015/TT-BTNMT dated May 29, 2015 on strategic environmental assessment, environmental impact assessment and environmental protection plans.
- Circular No. 36/2015/TT-BTNMT of 30 June 2015 by the Ministry of Natural Resources and Environment stipulating hazardous waste management
- Decision 07/2012/QD-TTg dated February 08, 2012 of the Prime Minister promulgating some regulations on intensified enforcement of forest protection
- Decision 186/2006/QD-TTg dated August 14, 2006 of the Prime Minister promulgating the Regulation on forest management
- Decree 09/2006/ND-CP dated 16th January, 2006 of the Government on forest fire prevention and control
- National Technical Regulations on air and noise quality
 - QCVN 05: 2013/BTNMT on ambient air quality
 - QCVN 26: 2010/BTNMT on noise
 - QCVN 27: 2010/BTNMT on vibration
- National Technical Regulations on water quality
 - QCVN 01: 2009/BYT on drinking water quality
 - QCVN 02: 2009/BYT on domestic water quality
 - QCVN 08-MT:2015/BTNMT on surface water quality
 - QCVN 09-MT:2015/BTNMT on underground water quality
 - QCVN 14: 2008/BTNMT on domestic wastewater

3. Other legislation applicable to the subproject are the following:

- Law No. 27/2001/QH10 of 29 June 2001 by the National Assembly on fire prevention and fighting
- Law No. 40/2013/QH13 of 22 November 2013 by the National Assembly on amending and adding a number of articles of the Law No. 27/2001/QH10 of 29 June 2001 on fire prevention and fighting
- Decision No. 3733/2002/QD-BYT of 10 October 2002 by the Ministry of Health promulgating 21 labor hygiene standards, 5 principles and 7 labor hygiene measurements
- Law No. 50/2014/QH13 of 18 June 2014 by the National Assembly on construction
- Circular No. 22/2010/TT-BXD of 03 December 2010 by the Ministry of Construction on labor safety in work construction.
- Law No. 10/2012/QH13 of 18 June 2012 by the National Assembly on labor code.

V. ASSESSMENT OF PROJECT READINESS

- 27. Both category B and category C subprojects with construction activities during this monitoring period have been screened and categorized on environmental impact at the initial step. They have been screened based on the (i) goal and outputs; (ii) main activities; (iii) location including proximity to protected areas, forests and other sensitive areas; (iv) estimated budget; and (v) estimated implementation schedule. There is only one category B subproject Upgrading concrete road to A Banh 2 village, Tr'Hy commune, Tay Giang district, Quang Nam province (QN02) has construction activities in this monitoring period.
- 28. In accordance to Decree No. 18/2015/NDCP, all subprojects should prepare Environmental Protection Plan (EPP). PIUs have prepared EPPs for all subprojects and submitted to relevant DPCs. DPCs have approved EPPs and the subprojects have started construction.
- 29. Follow ADB SPS, QN02 has been categorized as C on environment. Quang Nam PIU has prepared Initial Environmental Examination (IEE) and ADB has approved IEE for QN02 on quarter IV 2016.

VII. MITIGATIONS MEASURES IMPLEMENTED IN THE REPORTING PERIOD

- 30. Several common mitigation measures have been implemented for Environmental Category C subproject as follows:
- Informed construction schedule and scope to local authorities and local people in advance
- No construction activities have been implemented in the rest hour (from 6 pm to 6 am of the following day).
- Construction machines were checked and maintained regularly.
- Fuel, oil and grease was stored in impervious ground with fenced and covers and far from water bodies.
- 31. During the monitoring period, there is no environmental incidents has happened. Environmental monitoring and completion reports have been prepared for all under construction and completed subprojects. The reports are attached as Appendix 2; 3 and 4 of this report.
- 31. For the category B QN02 subproject, the contractor Binh Hoang Co. Ltd has applied mitigation measures to minimize and reduce the environmental impact of the subproject implementation as stated in the subproject IEE (Appendix 5). The contractor has paid special attention to the potential risk of surface water pollution to Ral Nool stream. Construction material and machines have been arranged neatly along the proposed route.



Figure 2 - Construction site at A Banh 2 road subproject

VIII. ENVIRONMENTAL MONITORING

- 32. Environmental monitoring plan has been prepared for all 6 environmental Category B subprojects. The Construction Supervision Contractor (CSC) is in charged for environmental monitoring.
- 33. Environmental compliance monitoring is implemented by Construction Supervision Consultant and PIU to check if all construction activities implemented by Construction Contractors follow EMP, IEE/EARF and environmental impacts to local areas/local residents during construction. Monitoring is done on a daily basis by the CSC through visual inspection and aided by the monitoring checklist prepared by the CPMU Safeguards Consultant and approved by the ADB and the PIU Compliance with EMP implementation monitoring.

Table 4. Result from the environmental monitoring of compliance with the EMP

Impact Factor/ Stage	Potential Impacts and/or Issues	Mitigation Measures defined in the EMP	Implementation status and compliance with EMP
Pre-construction Phase			
Biding and Construction Preparation	Bidding documents and contractors' qualifications	 Environmental section be included in the TOR for bidders. Environmental clauses for contractors in reference to the EMP and monitoring plan be included in the construction and supply contracts. 	Environmental section was included in TOR for bidders; environmental clauses were included in contracts). → Complied with
Construction Phase			
Surface water pollution	Deterioration of surface water quality due to silt runoff and sanitary wastes from worker- based camps and chemicals used in construction	 Store chemicals (oil, lubricants, etc.) for construction in a secure place with impervious floor and roof cover to avoid rainwater and flooding. No temporary material stockpile near Ra Nool stream (50 m) Ensure vehicles and equipment are maintained in good condition Regularly collecting waste land to avoid sedimentation; Wash construction vehicles and equipment near Ra Nool stream shall not allow avoiding pollution by lubricating oil from washing. Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on 	Surface water pollution prevention measures are implemented fully complying with the measures defined in this EMP. → Complied with

Impact Factor/ Stage	Potential Impacts and/or Issues	Mitigation Measures defined in the EMP	Implementation status and compliance with EMP
		wastewater and hazardous wastes; Regularly collect and dispose-off the wastes; Install sediment ditches at the construction site near Ra Nool stream. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Tr'Hy CPC.	
2. Air pollution	Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	 Inform construction schedule and scope to Tr'Hy CPC and local people in A Banh 1 and 2 villages in advance; Ensure equipment and vehicle maintenance is in good condition; Cover all trucks carrying raw materials to and from the construction site and along Provincial Road No.606 with canvas; Watering the construction sites of road section in dry and low humidity days, increasing the frequency of watering when passing through A Banh 1 village at least one time/ day. Mobile concrete mixing plants to be arranged a distance of 100 m away from A Banh 1 and 2 villages 	Mitigation measures for air pollution implemented along the subproject road, fully complying with the measures defined in this EMP. → Complied with
3. Traffic disruption and safety	Disruption to traveling of local peoples and/or transportation safety	 Inform construction schedule and scope to Tr'Hy CPC and local people in A Banh 1 and 2 villages through informal public consultation or any local people meetings and notice board in Tr'Hy CPC Arrange construction material neatly along the route and complete construction section by section to reduce the impact period; Avoid material transportation in the rush hours when children go to schools and local people goes to work; Install warning signs/ boards and the lightning system at 	Traffic disruption and safety measures are implemented at all construction sites, fully complying with the measures defined in this EMP. → Complied with

Impact Factor/ Stage	Potential Impacts and/or Issues	Mitigation Measures defined in the EMP	Implementation status and compliance with EMP
		 night time at the construction site to prevent traffic accident; Set up barricades, fences at the construction site to prevent unauthorized trespass. 	

- 34. Phuoc Vinh Construction Consultant Co. Ltd CSC of the QN02 subproject has implemented daily supervision on environmental effects and compliance monitoring on the application of proposed mitigation measures as stated in the subproject IEE. CSC has recorded and reported to Quang Nam PIU every quarter. See Appendix 4 for the Environmental monitoring and completion report of Quang Nam province.
- 35. There are no environmental incidents has happened in the monitoring period. The contractor has fully complied and implemented mitigation measures as in the EMP.

IX. PUBLIC CONSULTATION, GRIEVANCE REDRESS MECHANISM

- 36. A public consultation meeting has been held in the preparation phase of each subproject. The information disseminated during public consultation included: (i) background of BCC Project and the subproject; (ii) basic information related to ADB and the Government requirement for environmental protection and management; (iii) potential impacts during subproject implementation and mitigation measures and (iv) the grievance redress mechanism.
- 37. During the preparation of the subproject, information is disseminated to local people on the scope of the subproject, and environmental and social impacts. Negative impacts of an environmental or social nature, or resettlement impacts, may occur during the construction and operational phases have been discussed with the community. Any comments/ suggestions of local people will be solved quickly, transparently in accordance with protected the law, particularly for people affected by the subproject. This grievance redress mechanism is classified by level and responsibilities of involved parties.
- 38. There are three steps to address complaints received from stakeholders:
 - **Stage 1:** If a household or individual has any complaint he/she can submit a complaint in written or verbal form to the representative of the CPC-community monitoring board (usually the Deputy Chairman of the commune). The CPC will work with the relevant PIU to solve complaints and a representative of the PIU will response in written form to the complainant. The response will include a summary of the complainant's rights to redress.
 - **Stage 2**: If the complaint is not resolved within 7 days, the complainant may submit an application to the DONRE office of the district to resolve the complaint.
 - Stage 3: If, after more than 15 days, no official response from DONRE office has been received, the complainant may submit a complaint in written form to DONRE. DONRE will require relevant DONRE office to solve the complaint. In case the complaint is still not resolved, DONRE will require environmental police to investigate and requested stakeholders to resolve the complaint.
- 39. If efforts to resolve disputes using the grievance procedures remain unresolved or unsatisfactory, APs have the right to send the case to local court of the relevant district. A diagrammatic outline of the process is shown below:

If complaint is not solved within 7 days

Relevant CPCs - PIUs

Step 1

If complaint is not solved within 15 days

DONRE office

Step 2

Local court of relevant district

Step 4

Figure 3 - Grievance redress process of BCC Project

- 40. Public consultation has been implemented for all subprojects before construction start. The public consultation minutes for QN02 could be found in the IEE of the subproject.
- 41. During the monitoring period July December 2017, there is no complain and negative reflection from local people has been recognized.

X. INSTITUTIONAL STRENGTHENING AND TRAINING

There is no training activities related to safeguard policy has been implemented in the monitoring period. The last training section has been held in Dong Ha city, Quang Tri province in March 2016 on safeguard policy compliance with participants are safeguard staff from Quang Tri; Quang Nam and Thua Thien Hue Province Implementation Units (PIUs) and District Project Implementation Units (DPIUs).

There is no planned training session on safeguard policy for the next quarter.

XI. CONCLUSION

A. Overall Progress of Implementation of Environmental Management Measures

Compliance with the Project's Environmental Safeguards during the construction of subprojects under small-scale infrastructure component for all category C and category B subprojects have been satisfactory. The construction contractors have fully complied with the regulations on environment as required in REAs, EPP, IEE (for QN02) and EARF. The environmental monitoring and reporting system has been established to ensure the implementation of mitigation measured are qualified. Environmental monitoring reports has been prepared and submitted to the relevant PIU in time.

B. Problems Identified and Actions Recommended

The implementation progress is still slow. There is only one category B subproject (QN02) is under construction during the monitoring period and there are 2 category B subprojects have not started construct yet (QT02 and TH02). Most of the subprojects of Thua Thien Hue have not started construct yet.

Thua Thien Hue PIU should prepare REAs for 14 additional proposed subprojects and submit required environmental documents to CPMU as soon as possible in in order to implement these subprojects under BCC Project.

In case any of the new proposed subproject has been categorized as B on environmental issues, Thua Thien Hue PIU should prepare IEE for the subproject, in accordance with EARF before submit to ADB for approval.

XII. APPENDICES

Appendix 1 - Site inspection/ Monitoring form

Environmental Safeguard Site Inspection/ Monitoring form for Category B subproject (Done by Construction Supervision Consultant (CSC) and submit to Safeguards Staff of PIU every quarter during the construction phase)

	quarter during the construction phase)
Form N	lo.: month year
1. Subproject name:	
2. CSC Information:	
Name:	
Phone number:	
3. Contractor:	
4. Project site:	
Time: from date to	date
Site environmental description	(before inspection commencement) including weather condition:

Construction condition:

Environmental compliance issue	Mitigation measure	cor	Cont nplia thin (nce	
		1	2	3	4
I. Environmental	component				
1. Air pollution	- No overload transportation vehicle with canvas				
	- Watering construction site and transportation route				
	- Moistening fine material before transportation				
	- Cover stockpile with tarpaulin				
	- Site clean up				
2. Exhaust	- Legal registration of construction equipment				
gases, noise and	- No construction's activities at rest time				
vibration	- Stockpile located far from sensitive receivers and down				
3. Water	- Site clean up after construction complete				
pollution	- Wastewater collection ditch				
	- Collect waste oil, fuel				
	- Collect wastewater from worker's camp				
	- Allocate trash bin and toilet at worker camp,				
	- Leveling material mine after exploitation complete				
4. Waste	- Dump waste at the designated location (with permission,				
management	meeting minutes)				
	- Regularly collect and transfer waste from sites				
II. Social issue					
5. Water supply	- Inform local authorities and people in advance.				
interruption					

Environmental compliance issue	Mitigation measure	Contractor compliance level (within 3 months			
		1	2	3	4
(irrigation	- Construction package by package.				
6. Health and	- Equip worker with PPE				
safety issue	- Train worker on first aid				
	- Electrical safe system at construction site				
	- Training on electrical safety				
	- Built up hygiene worker camp				
	- Provide suitable water at camp site				
	- Regularly clean the camp site				
7. Influx of	- Register for worker from outside.				
worker, social	- Training on social evils for worker				
conflict	- Ensure safety and security at construction and camp				
8. Road and	- Keep construction material and stockpile tidy				
movement block	- Ensure good quality of the transportation routes				
	- Training on work safety				
	- Fence and set up signage at construction site				

Compliance level: 1- none compliance; 2- A little; 3 - Compliance; 4 - Very good

(Leave blank if not applicable in the project)

General comment:

- Issues:

- Reasons

- Recommendation:

_

Submission date: Contractor CSC

Signature

Appendix 2 - Environmental monitoring and completion report of Thua Thien Hue

Subproject: TH01 - Concretization of A Tau Canal

Type: Irrigation; Location: A Roang commune, A Luoi district, Thua Thien Hue province Construction duration: 135 days; Status: Completed. Completion date: 30 July 2017.

Contractor: Hoang Phuoc Trade and Construction Investment Co Ltd.

Supervisor: Partnership of Hanoi Construction Trade and Services Consultant Co. Ltd and ACI E&C

Construction Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



Subproject: TH03 - Internal Path in Pa Hy Village

Type: General; Location: Hong Ha commune, A Luoi district, Thua Thien Hue province Construction duration: 60 days; Status: Completed. Completion date: 19 November 2016.

Contractor: Cong Nong Thuong Ha Nam Investment and Development Co. Ltd.

Supervisor: Partnership of Hanoi Construction Trade and Services Consultant Co. Ltd and ACI E&C

Construction Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



Subproject: TH07 - Access Road to Production Area in Can Tom Stream, Mu Nu Village

Type: General; Location: Huong Nguyen commune, A Luoi district, Thua Thien Hue province Construction duration: 120 days; Status: Completed; Completion date: 31 December 2017.

Contractor: Loan Thang Co. Ltd.

Supervisor: Partnership of Hanoi Construction Trade and Services Consultant Co. Ltd and ACI E&C

Construction Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



Subproject: TH11 - Internal Path Village 3, Thuong Quang Commune

Type: General; Location: Thuong Quang commune, Nam Dong district, Thua Thien Hue province

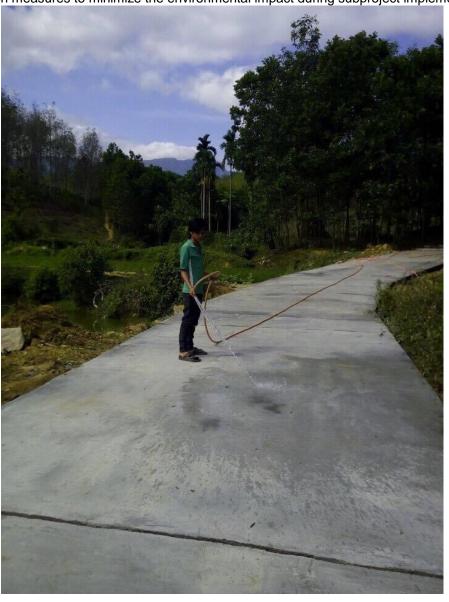
Construction duration: 60 days; Status: Completed. Completion date: 24 April 2017.

Contractor: Huy Hoang Trade and Services Co. Ltd.

Supervisor: Partnership of Hanoi Construction Trade and Services Consultant Co. Ltd and ACI E&C

Construction Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



Appendix 3 - Environmental monitoring and completion report of Quang Tri

Subproject: QT05 - Upgrading of Spillway Road in Cat Village

Type: General;

Location: Lang Cat village, Dakrong commune, Dakrong district, Quang Tri province

Construction duration: 4 months; Status: Completed; Completion date: November 2017.

Contractor: Kien Minh Consultant Joint Stock Company

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.





Subproject: QT07 - Upgrading of Internal Path in Ta Rut 2

Type: General;

Location: Ta Rut 2 village, Ta Rut commune, Dakrong district, Quang Tri province

Construction duration: 3 months; Status: Completed; Completion date: September 2017.

Contractor: Pho Viet Joint Stock Company

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.



Subproject: QT15 - Field Reclamation in Cu Dong Village

Type: Irrigation; Location: Cu Dong village, Huc commune, Huong Hoa district, Quang Tri province

Construction duration: 5 months; Status: Completed; Completion date: November 2017.

Contractor: Hai Quang One Member Co. Ltd.

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.





Subproject: QT17 - Kindergarten Construction at Moi Village

Type: House & Building;

Location: Moi village, Huong Son commune, Huong Hoa district, Quang Tri province

Construction duration: 3 months; Status: Completed; Completion date: September 2017.

Contractor: Pho Viet Joint Stock Company

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.





Subproject: QT18 - Communal House in Huong Do Village

Type: House & Building:

Location: Cu Dong village, Huc commune, Huong Hoa district, Quang Tri province

Construction duration: 3 months; Status: Completed; Completion date: September 2017.

Contractor: Gia Thanh One Member Co. Ltd.

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.



Subproject: QT19 - Communal House in Miet Cu Village

Type: House & Building;

Location: Miet Cu village, Huong Linh commune, Huong Hoa district, Quang Tri province

Construction duration: 5 months; Status: Completed; Completion date: September 2017.

Contractor: 78 Construction Joint Stock Company

Supervisor: BRC Construction and Investment Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste, wastewater from workers.



Appendix 4 - Environmental monitoring and completion report of Quang Nam

Subproject: QN01 - Concrete Road in Bhlo1

Type: General.

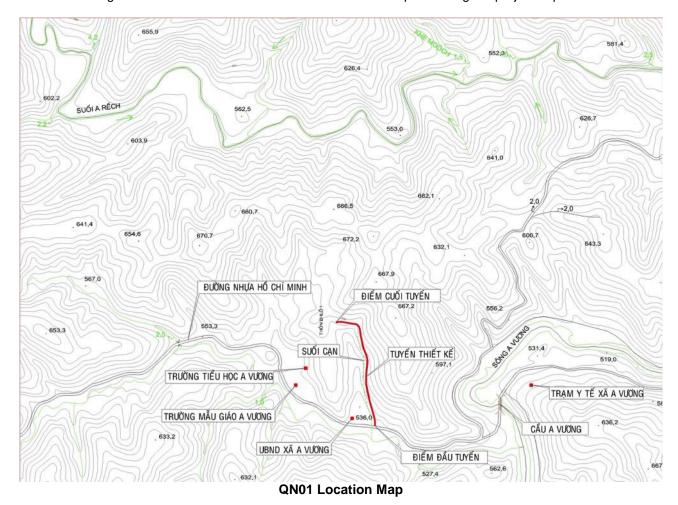
Location: A Vuong commune, Tay Giang district, Quang Nam province

Construction duration: 50 days; Status: Completed. Completion date: 17 August 2016.

Contractor: Phuc Thinh Construction Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.





QN01 Field Photo

Subproject: QN02 - Concrete Road to A Banh 2 Village

Type: General.

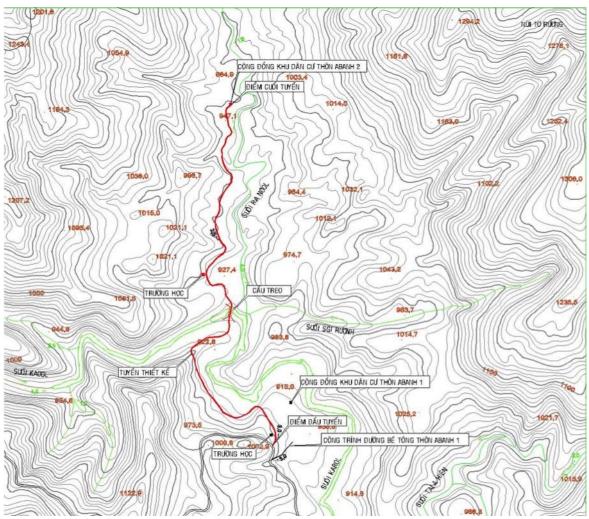
Location: Tr'Hy commune, Tay Giang district, Quang Nam province

Construction duration: 120 days; Status: Under construction; Expected completion date: 24 April 2018.

Contractor: Binh Hoang Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN02 Location Map

Subproject: QN03 - Inner Concrete Road in Dak Ngon Village

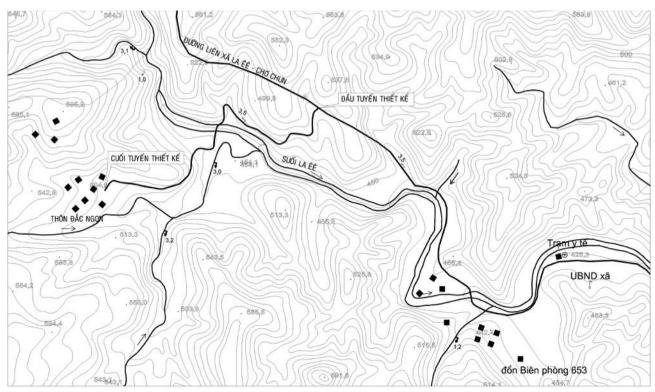
Type: General.

Location: La Ee commune, Nam Giang district, Quang Nam province

Construction duration: 168 days; Status: Completed. Completion date: 08 September 2017.

Contractor: Luc Dong Trade and Construction Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN03 Location Map



QN03 Field Photo

Subproject: QN04 - Concrete Road in A Ruung Village

Type: General.

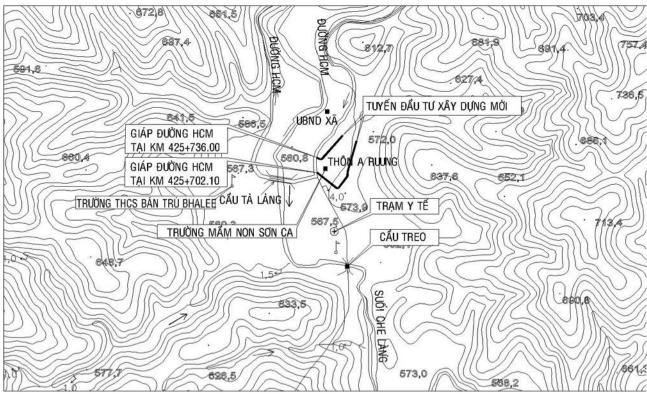
Location: Bhalee commune, Tay Giang district, Quang Nam province

Construction duration: 56 days; Status: Completed. Completion date: 10 October 2016.

Contractor: Phuc Thinh Construction Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN04 Location Map



QN04 Field Photo

Subproject: QN06 - Concrete Road in Bhlooc, Bhalee Commune

Type: General.

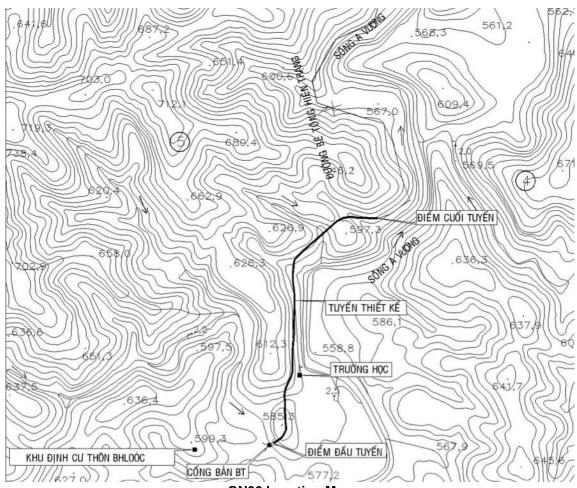
Location: Bhalee commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 26 February 2018.

Contractor: An Thanh Luy Construction Trade & Services One Member Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN06 Location Map

Subproject: QN07 - Inner Road in Dam Village

Type: General.

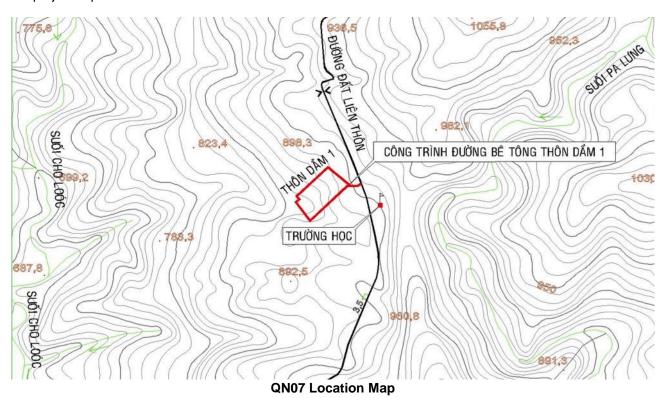
Location: Tr'Hy commune, Tay Giang district, Quang Nam province

Construction duration: 30 days; Status: Under construction; Expected completion date: 28 January 2018.

Contractor: Binh Hoang Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



Subproject: QN08 - Auxiliary Infrastructure of Son Ca Kindergarten

Type: General.

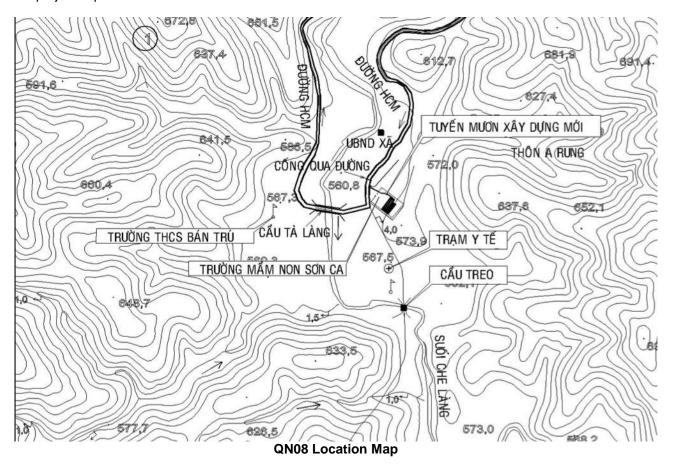
Location: Bhalee commune, Tay Giang district, Quang Nam province

Construction duration: 30 days; Status: Under construction; Expected completion date: 28 January 2018.

Contractor: Phuc Thinh Construction Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.





QN08 Field Photo

Subproject: QN10 - Concrete Road to A Chui Production Site

Type: General.

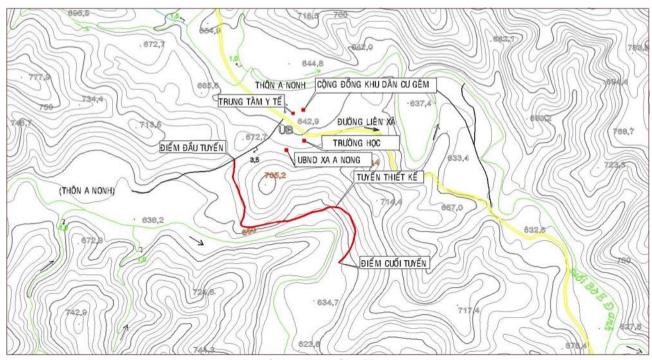
Location: A Nong commune, Tay Giang district, Quang Nam province

Construction duration: 140 days; Status: Completed. Completion date: 19 January 2017.

Contractor: An Thanh Luy Construction Trade & Services One Member Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN10 Location Map



QN10 Field Photo

Subproject: QN11 - Inner Concrete Drainage in Gem Settlement Site, A Rot Village

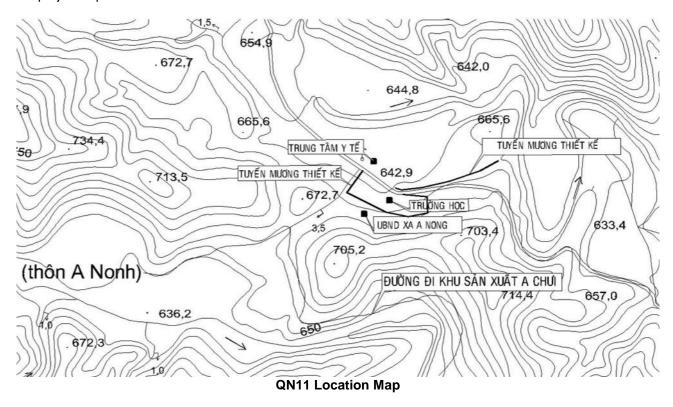
Type: General.

Location: A Nong commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 12 March 2018.

Contractor: Dinh Ngoc Anh Construction & Consultant Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.





QN11 Field Photo

Subproject: QN13 - Inter-village Concrete Road from Knoonh 1 to Knoonh 3

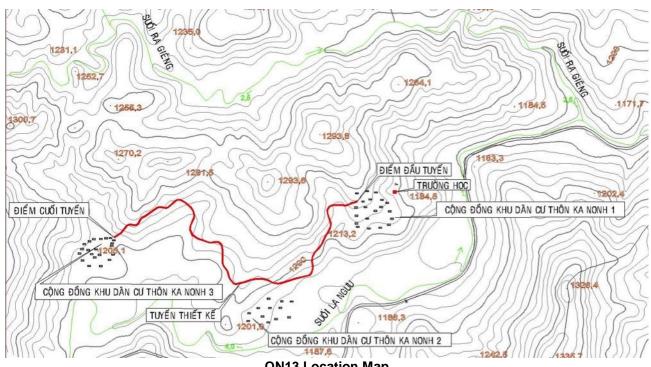
Type: General.

Location: A Xan commune, Tay Giang district, Quang Nam province

Construction duration: 90 days; Status: Under construction; Expected completion date: 25 March 2018.

Contractor: Tien Luc Construction One Member Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN13 Location Map



QN13 Field Photo

Subproject: QN14 - Primary School for Re'h Village

Type: House & Building.

Location: Ch'Om commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 5 March 2018.

Contractor: Tien Loi Construction Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.

Subproject: QN15 - Auxiliary Infrastructure of Ta Lang Residential Site

Type: General.

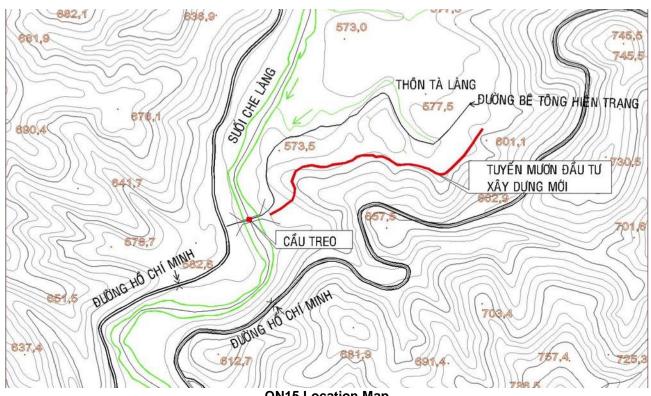
Location: Bhalee commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 27 February 2018.

Contractor: Phuc Thinh Construction Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN15 Location Map



QN15 Field Photo

Subproject: QN16 - Concrete Road in T-Ghey Village

Type: General.

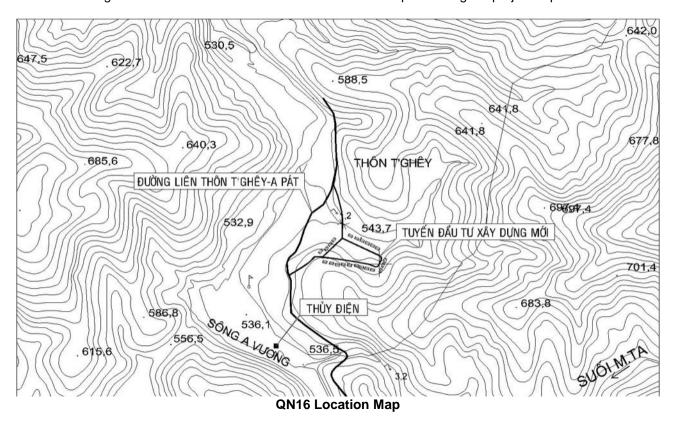
Location: A Vuong commune, Tay Giang district, Quang Nam province

Construction duration: 55 days; Status: Completed; Completion date: 09 October 2016.

Contractor: My Son Co. Ltd. Dong Giang branch

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.





QN16 Field Photo

Subproject: QN17 - Inner Concrete Road in Tr'lee Residential Site

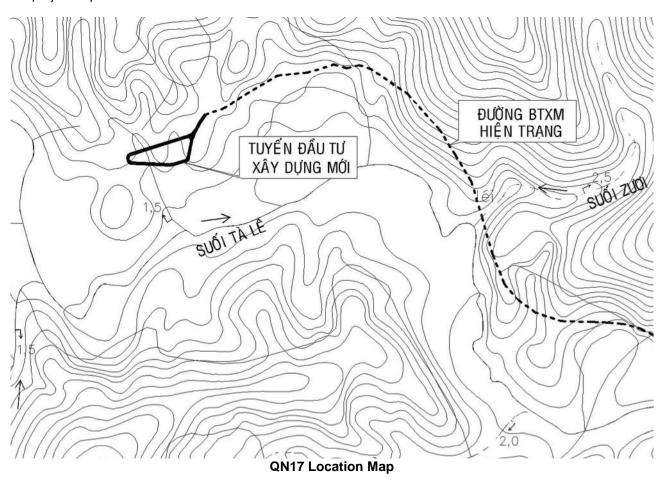
Type: General.

Location: A Tieng commune, Tay Giang district, Quang Nam province

Construction duration: 30 days; Status: Under construction; Expected completion date: 10 February 2018.

Contractor: Dinh Ngoc Anh Construction & Consultant Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.





QN17 Field Photo

Subproject: QN18 - Household's Toilets in Cluster No.1 and No.2, R'bhuop Village

Type: House & Building.

Location: A Tieng commune, Tay Giang district, Quang Nam province

Construction duration: 90 days; Status: Under construction; Expected completion date: 8 March 2018.

Contractor: Transportation Construction & Development Joint Stock Company

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN18 Field Photo

Subproject: QN19 - Household's Toilets in Xa Oi 1 Village

Type: House & Building.

Location: A Vuong commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 6 February 2018.

Contractor: Tien Luc Construction One Member Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN19 Field Photo

Subproject: QN20 - Concrete Road in Xa Oi 3 Village

Type: General.

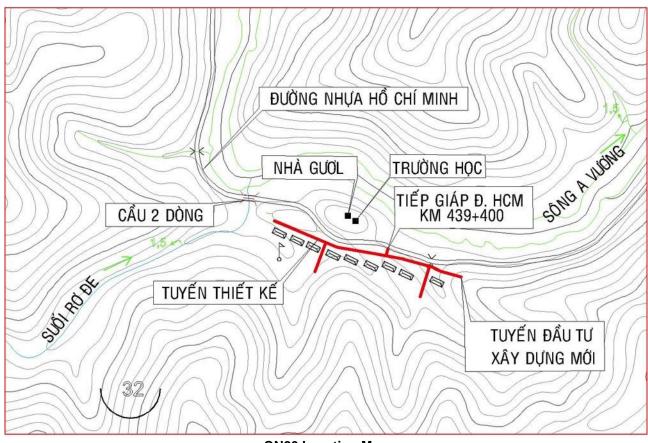
Location: A Vuong commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Completed; Completion date: 26 September 2016.

Contractor: Binh Hoang Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN20 Location Map



QN20 Field Photo

Subproject: QN21 - Concrete Road in A Gioc Village

Type: General.

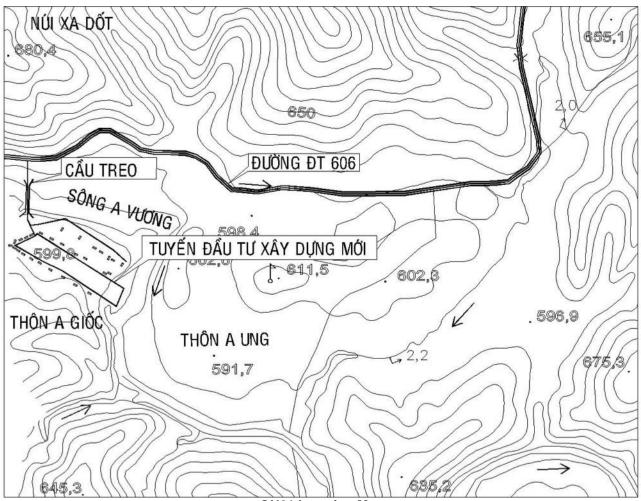
Location: Bhalee commune, Tay Giang district, Quang Nam province

Construction duration: 60 days; Status: Completed; Completion date: 9 September 2016.

Contractor: An Thanh Luy Construction Trade & Services One Member Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN21 Location Map



QN21 Field Photo

Subproject: QN22 - Kinderga in Pa Cang Village

Type: House & Building.

Location: Ca Dy commune, Nam Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 6 February 2018.

Contractor: Khanh Dai Nam Tourism and Transportation Co. Ltd.

Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN22 Field Photo

Subproject: QN23 - Inner Concrete Road in Pa Lanh Village

Type: General.

Location: Ca Dy commune, Nam Giang district, Quang Nam province

Construction duration: 60 days; Status: Under construction; Expected completion date: 26 February 2018.

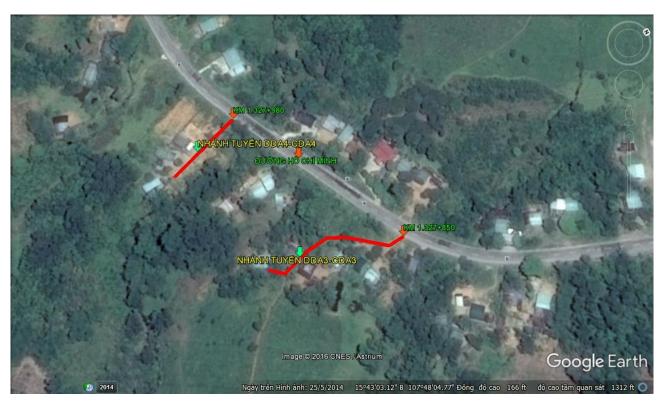
Contractor: An Thanh Luy Construction Trade & Services One Member Co. Ltd.

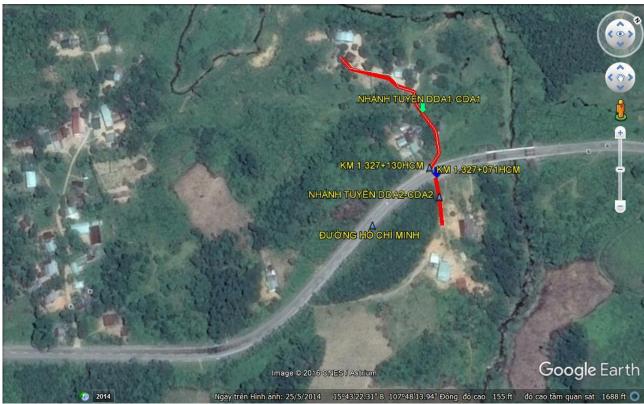
Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN23 Field Photo





QN23 Location Map

Subproject: QN24 - Concrete Road from Zlao Residential Cluster to Commune Center

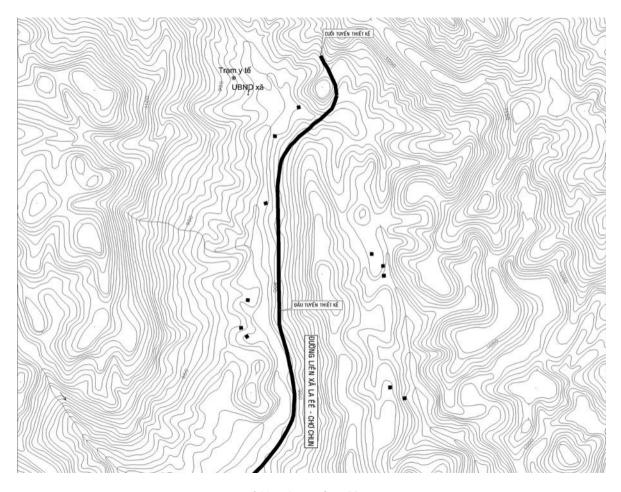
Type: General.

Location: Cho Chun commune, Nam Giang district, Quang Nam province

Construction duration: 120 days; Status: Under construction; Expected completion date: 26 April 2018.

Contractor: Luc Dong Trade and Construction Co. Ltd. Supervisor: Phuoc Vinh Construction Consultant Co. Ltd.

Monitoring parameters: exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste from workers; and storm-water runoff.



QN24 Location Map

Appendix 5 - IEE of QN02 - Upgrading Concrete Road to A Banh 2 Village Subproject

1) Environmental Mitigation Plan

Potential Impact	Mitigation Measure	Responsibility	Cost (Price unit)			
Construction Phase						
	Store chemicals (oil, lubricants, etc.) for construction in a secure place with impervious floor and roof cover to avoid rainwater and flooding. No temporary material stockpile near Ra Nool stream (50 m) Ensure vehicles and equipment are	Contractor	Includes in contract with contractor			
	maintained in good condition					
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction	Regularly collecting waste land to avoid sedimentation;	Contractor				
	Wash construction vehicles and equipment near Ra Nool stream shall not allow avoiding pollution by lubricating oil from washing.					
	Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on wastewater and hazardous wastes;	Contractor				
	Regularly collect and dispose-off the wastes;					
	Install sediment ditches at the construction site near Ra Nool stream. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Tr'Hy CPC.					
Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	Inform construction schedule and scope to Tr'Hy CPC and local people in A Banh 1 and 2 villages in advance; Ensure equipment and vehicle maintenance is in good condition; Cover all trucks carrying raw materials to and from the construction site and along Provincial Road No.606 with canvas; Watering the construction sites of road section in dry and low humidity days, increasing the frequency of watering when passing through A	Contractor	Includes in contract with contractor			
	Banh 1 village at least one time/ day. Mobile concrete mixing plants to be arranged a distance of 100 m away from A Banh 1 and 2 villages	Contractor				

Potential Impact	Mitigation Measure	Responsibility	Cost	
			(Price unit)	
		Contractor		
	Inform construction schedule and scope to Tr'Hy CPC and local people in A Banh 1 and 2 villages through informal public consultation or any local people meetings and notice board in Tr'Hy CPC;	Contractor	Includes in contract with contractor	
Disruption to traveling of local peoples and/or transportation safety	Arrange construction material neatly along the route and complete construction section by section to reduce the impact period;	Contractor		
	Avoid material transportation in the rush hours when children go to schools and local people goes to work;			
	Install warning signs/ boards and the lightning system at night time at the construction site to prevent traffic accident;			
	Set up barricades, fences at the construction site to prevent unauthorized trepass.			
Poor sanitation and solid waste disposal in construction camps	Establish temporary or mobile toilet at construction site and worker camps; Supply enough hygiene water for worker camps;	Contractor	Includes in contract with contractor	
and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations	Generated wastes should be regularly collected and transferred to temporary dumping site - 800 m from the construction site; Provide regulations about sanitary and	Contractor		
	Provide regulations about sanitary and garbage regulations and common rules for the workers.	Contractor		
Operation phase				
Changes to traffic safety	Install road humps, warning signs at the junction with Provincial Road No.606, section passes through A Banh 1 village; Limit the speed of motorbike on the road in accordance to traffic law, especially at the starting point; Regularly maintain the road and repair small	Commercial and Trade Division of Tay Giang District	In the operation budget of the Division	
Changes to access to natural resource	damage in time. Implement training campaign on forest protection for local people in A Banh 1 and 2 and Tr'Hy commune; Install hotline between local people in A Banh and Forest Patrol on forest protection and prevention of unwanted encroachment;	Commercial and Trade Division of Tay Giang District; Quang Nam DONRE	In the operation budget of the Division and	

Potential Impact	Mitigation Measure	Responsibility	Cost (Price unit)
	Install propaganda panel at roadside on environmental protection.		Quang Nam DONRE

2) Public Consultation

Public Consultation and Disclosure Activities

CONSULTATION METHOD	DE	TAILS OF ACTIVITIES	
Correspondence and meetings	Date of correspondence	December, 2015	
with local authorities (Tr'Hy CPC, Commune Fatherland Front, Village Head)	Dates of meetings (if requested)	December, 2015	
,	Minutes of meeting attached (Yes / No)	Yes	
Public meeting	Date(s) held	24/12/2015;	
	Location(s) held	Meeting room of Tr'Hy CPC, Tay Giang district	
	Invitees	Representative of Tr'Hy CPC, village heads, Fatherland front, Farmer Association, farmer union	
	Methods of invitation	Radio announcement and letter, coordinate with CPC to mobilize women's participation in meetings	
	Agenda attached (Yes / No)	Yes	
	Minutes of meeting attached (Yes / No)	Yes	
	Number of attendees	36 people (24 males; 12 females)	