

# ENVIRONMENTAL MONITORING REPORT

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Project 40253-023 and 40253-035  
Semestral Report  
July 2019

LOAN 2721-VIE: GREATER MEKONG SUB-REGION  
BIODIVERSITY CONSERVATION CORRIDORS PROJECT –  
VIETNAM COMPONENT (BCC PROJECT)

AND

GRANT 0433-VIE: GREATER MEKONG SUB-REGION  
BIODIVERSITY CONSERVATION CORRIDORS PROJECT –  
ADDITIONAL FINANCING (BCC-GEF PROJECT)

## **ACRONYMS AND ABBREVIATIONS**

ADB	- Asian Development Bank
BCC	- Biodiversity Conservation Corridors Greater Mekong Sub-region Project
BCC-GEF	- The Additional Funding for BCC by Global Environment Facility
CFM	- Community Forest Management
CPC	- Commune People's Committee
CPMU	- Central Project Management Unit
CSC	- Construction Supervision Consultant
CSDP	- Conservation and Sustainable Development Planning
DARD	- Department of Agricultural and Rural Development
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
FS	- Feasibility Study report
IEE	- Initial Environmental Examination
MONRE	- Ministry of Natural Resources and Environment
NR	- Nature Reserve
OMP	- Operation and Management Planning
PFES	- Payments for Forest Environmental Services
PPC	- Provincial People's Committee
PPMU	- Provincial Project Management Unit
RF	- Resettlement Framework
SFMP	- Sustainable Forest Management Plan
SSI	- Small Scale Infrastructure

## **CURRENCY EQUIVALENTS**

(as of 15 July 2019)

Currency Unit	–	VND
\$1.00	=	23140

## **ABBREVIATIONS**

## **WEIGHTS AND MEASURES**

dB(A)	–	Decibel (weighted average)
ha	–	hectare
kg/d	–	kilogram per day
km	–	kilometer
km <sup>2</sup>	–	square kilometer
m	–	meter
m <sup>2</sup>	–	square meter
m <sup>3</sup>	–	cubic meter
m <sup>3</sup> /d	–	cubic meters per day
m <sup>3</sup> /s	–	cubic meters per second
mg/m <sup>3</sup>	–	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 Sub-region Biodiversity Conservation Corridors Project and the Additional Funding by the Global Environment Facility (GEF) 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 first half of 2019 aims at evaluating the compliance of the Project activities with the Project's Environmental Assessment and Review Framework (EARF) over the period January to June 2019.

### **B. Project Objective and Components**

#### **B1. The BCC Project**

2. The 'Greater Mekong Sub-region Biodiversity Conservation Corridors project – Vietnam Component' (referred to as BCC project) was approved through Decision No.2144/QĐ-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 small-scale infrastructure to contribute to reduce poverty and improve the living conditions of ethnic minorities in poor mountainous districts in the project area.

#### **B2. The BCC-GEF Project**

4. The additional funding for the BCC project is financed by the Global Environment Facility (GEF), approved on 25 June 2015 and effective in February 2016, The project is possible be

extended to the end of June 2020. The purpose of the grant is to address the impact of fragmentation of the forest landscape through the enhancement of (i) institutional and community capacities in the management of natural reserve and surrounding areas. Central Truong Son landscape; and (ii) community-level landscape conservation measures are strengthened.

5. The BCC-GEF has two sub-components including:
  - Strengthen planning and management of forest biodiversity in and around natural reserves in the Trung Truong Son landscape.
  - Community-level conservation measures at natural reserve and surrounding areas to provide sustainable financing and reduce greenhouse gas emissions.

## II. PROJECT IMPLEMENTATION PROGRESS

### II.1. The BCC Project

7. As of June 2019, all project implementation arrangements such as operation and management establishment at all levels, staffing and technical consultants are still running as in the previous monitoring period. Progress or achievements in implementation of the project in the first half of 2019 are summarized as follows:

8. At the time of writing the report, the implementation progress of the project activities has been steady with continued delays in key activities.

9. Component 1 activities are on-going with delays versus agreed timelines as per the ADB Missions in April 2019.

10. Component 2 activities are also delayed and are expected to complete by the loan closing date. The past delay in forestation design, approval of the design results, forest inventory, and forest land use certification has led to delay in the commencement of comprehensive implementation of forest management program and the planned demonstration of forest-based livelihood improvement models with CFM as core.

11. Component 3 activities are generally on track albeit with delay of livelihood related activities including late commencement of business development activities for farmers.

12. As of 30 April 2019, total cumulative contract awards and disbursements (including interest during construction-IDC and advance accounts) were \$22.933 million and \$22.073 million, respectively, which are equivalent to 85% and 82% of the net loan amount of \$27.093 million (95% of the project elapsed implementation period).

13. The DMF target of 6,000ha for forest restoration and its completion by 2018 has not been 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, in the Aide-memoire (AM) with ADB (October 2018) 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 – 1.272,5 ha, Quang Tri – 1.599,4 ha, and Quang Nam – 1.795,7ha which has made a total of 4.667,6 ha against the DMF target of 6,000 ha. Up to the end of March 2019, total forest restoration area in accordance with the reports of 3 provinces 4.548,35 ha, made up 76% of the 6,000 ha target, make up 97,4% of the plan in AM in October 2018 (4,667.6ha)

14. The result of forest restoration area of 03 provinces, generated from provincial reports is summarized in Table 1 below.

*Table 1- Result of forest restoration activities up to March 2019 in 3 provinces  
in compare with the Project target*

Activity	Quang Tri	Thua Thien Hue	Quang Nam	The whole Project
Forest recovery plantation	1,285.5	626.3	475.9	2,387.7
Forest zoning	110,6	196.2	1,135.2	1,442
Forest enrichment	100,0	450	168.6	718.6
Livelihood forest plantation	356.3	550	432.92	1,339.2
Non-timber plantation	956	1,298	670	2,924



### Small-scale infrastructure subproject:

15. By June 2019, the construction of 66 among the current total of 77 subprojects have been completed. The number of the sites that were completed in Quang Nam is 25/25 sites, 22/23 sites in Quang Tri, and 19/29 sites in TT-Hue<sup>1</sup>. Detail information is showed in Table 2 below.

16. In this monitoring period, Quang Nam has completed construction works the two remaining works. All the 25/25 construction works of Quang Nam has been completed and hand over for using.

17. In Quang Tri, 05/06 remain construction works from the previous monitoring period have been completed. The construction of QT24 - Upgrading Huc Nghi commune primary & secondary school has not been completed due to the district division of education requested to change location of new class room and led to the construction worker's camp and equipment storage at the school yard become improper as it caused risk for safety, security and environmental sanitation of the school pupils. The update estimated completion date of QT24 is 20 September 2019.

18. For Thua Thien Hue: 11 construction works have been completed during the monitoring period; make up 19/30 civil works construction have been completed. 3 subprojects, including TH04 in the first subproject list and TH12; TH14 in the "replace and additional" subproject list, are now under construction with the construction progress reached to 50% of the total. The remaining 7 subprojects are now waiting for the approval of Thua Thien Hue PPC on the selection of construction contractor.

*Table 2 - List of all small-scale infrastructure subprojects under BCC Project*

No.	Subproject name	Location	Ct	Status
<b>QUANG TRI</b>				
QT01	Upgrading of internal path in Hoong village	Huong Linh, Huong Hoa, Quang Tri	B	Completed in 05/12/2015
QT02	Upgrading Village-Linking Road of Huc Nghi – La To villages	Huc Nghi, Dak Rong, Quang Tri	B	Cancelled
QT03	Upgrading Village-linking road of Nguon Rao – Pin Villages	Huong Son, Huong Hoa, Quang Tri	B	Completed in 14/1/2016
QT04	Upgrading of internal path in Ta Leng village	Dak Rong, Dak Rong, Quang Tri	C	Completed in 17/02/2016
QT05	Upgrading of spillway road in Cat village	Dak Rong, Dak Rong, Quang Tri	C	Completed in November 2017
QT06	Upgrading of internal path in Pa Hy village	Ta Long, Dak Rong, Quang Tri	C	Completed in 25/12/2015
QT07	Upgrading of internal path in Ta Rut 2	Ta Rut, Dak Rong, Quang Tri	C	Completed in November 2017
QT08	Upgrading of internal path in Ta Rut 1	Ta Rut, Dak Rong, Quang Tri	C	Completed in 16/2/2016
QT09	Upgrading Ta Rec - Ta Mien inter-village road	Ba Nang, Dak Rong, Quang Tri	C	Completed in January 2019
QT10	Upgrading of access road to Ta Rung - Ka Tieng - Chai production area	Huong Viet, Huong Hoa, Quang Tri	C	Completed in January 2019
QT11	Upgrading of Kareng 1 - Pa Loang inter-village road	Huong Hiep, Dak Rong, Quang Tri	C	Completed in August 2018
QT12	Concretization of irrigation canals in Ta Nuc and Huc Thuong	Huc, Huong Hoa, Quang Tri	C	Completed in 30/4/2016

<sup>1</sup> TH09 - Upgrading of road in Village 5, Hong Kim commune, A Luoi has been constructed by other capital source and removed from TTH subproject list. The final number of subproject is 29 for Thua Thien Hue.

QT13	Rehabilitation of irrigation canal in Cu Bai village	Huong Lap, Huong Hoa, Quang Tri	C	Completed in 19/2/2016
QT14	Rehabilitation and upgrading of irrigation system in Cheng and Chenh Venh villages	Huong Phung, Huong Hoa, Quang Tri	C	Completed in 17/2/2016
QT15	Field reclamation in Cu Dong village	Huc, Huong Hoa, Quang Tri	C	Completed in November 2017
QT16	Kindergarten construction at Ba Ngay village	Ta Long, Dak Rong, Quang Tri	C	Complete in January 2019
QT17	Kindergarten construction at Moi village	Huong Son, Huong Hoa, Quang Tri	C	Completed in September 2017
QT18	Communal house in Huong Do village	Huong Phung, Huong Hoa, Quang Tri	C	Completed in September 2017
QT19	Communal house in Miet Cu village	Huong Linh, Huong Hoa, Quang Tri	C	Completed in September 2017
QT20	Kindergarten construction at Cuoi village	Huong Lap, Huong Hoa, Quang Tri	C	Completed in December 2018
QT21	Upgrading road to production area of Chenh Venh village	Huong Phung, Huong Hoa, Quang Tri	C	Complete in January 2019
QT22	Rehabilitation and upgrading of irrigation system in Cup village	Huong Lap, Huong Hoa, Quang Tri	C	Completed in June 2018
QT23	Upgrading rural road in La To village	Huc Nghi, Dakrong, Quang Tri	C	Completed in QII 2019
QT24	Upgrading Huc Nghi commune's primary and secondary school	Huc Nghi, Dakrong, Quang Tri	C	Expected to complete in September 2019
<b>QUANG NAM</b>				
QN01	Concrete road in Bhlo 1	A Vuong, Tay Giang, Quang Nam	C	Completed in 17/8/2016
QN02	Upgrading concrete road to A Banh 2 village	Tr'Hy, Tay Giang, Quang Nam	B	Completed in 24/4/2018
QN03	Inner concrete road in Dak Ngon village	La Ea, Nam Giang, Quang Nam	B	Completed in September 2017
QN04	Concrete road in A Ruong village	Bhalee, Tay Giang, Quang Nam	C	Completed in 10/10/2016
QN05	Secondary school in La Dee commune (Function house)	La Dee, Nam Giang, Quang Nam	C	Completed in 19/06/2018
QN06	Concrete road in Bhlooc, Bhalee commune	Bhalee, Tay Giang, Quang Nam	C	Completed in 26/2/2018
QN07	Inner road in Dam village	Tr'Hy, Tay Giang, Quang Nam	C	Completed in 28/1/2018
QN08	Auxiliary infrastructure of Son Ca kindergarten	Bhalee, Tay Giang, Quang Nam	C	Completed in 28/1/2018
QN09	Drainage system in Gem settlement site, A Rot village	A Nong, Tay Giang, Quang Nam	C	Completed in 23/3/2018
QN10	Concrete road to A Chui production site	A Nong, Tay Giang, Quang Nam	C	Completed in 19/01/ 2017
QN11	Inner concrete road in Gem settlement site, A Rot village	A Nong, Tay Giang, Quang Nam	C	Completed in 23/3/2018

QN12	Concrete road from Glao village to Dading village	Gari, Tay Giang, Quang Nam	C	Completed in 02/4/2018
QN13	Inter-village concrete road from Knoonh 1 to Knoonh 3	A Xan, Tay Giang, Quang Nam	C	Completed in 31/3/2018
QN14	Primary school for Re'h village	Ch'Om, Tay Giang, Quang Nam	C	Completed in 8/2018
QN15	Auxiliary infrastructure of Ta Lang residential site	Bhalee, Tay Giang, Quang Nam	C	Completed in 27/2/2018
QN16	Concrete road in T-Ghey village	A Vuong, Tay Giang, Quang Nam	C	Completed in 9/10/2016
QN17	Inner concrete road in Tr'lee residential site	A Tieng, Tay Giang, Quang Nam	C	Completed in 21/2/2018
QN18	Household's toilets in cluster No.1 and No.2, R'bhuop village	A Tieng, Tay Giang, Quang Nam	C	Completed in 8/3/2018
QN19	Household's toilets in Xa Oi 1	A Vuong, Tay Giang, Quang Nam	C	Completed in 6/2/2018
QN20	Concrete road in Xa Oi 3 village	A Vuong, Tay Giang, Quang Nam	C	Completed in 26/9/2016
QN21	Concrete road in A Gioc village	Bhalee, Tay Giang, Quang Nam	C	Completed in 9/9/2016
QN22	Kindergarten in Pa Cang village	Ca Dy, Nam Giang, Quang Nam	C	Completed in 6/2/2018
QN23	Inner concrete road in Pa Lanh village	Ca Dy, Nam Giang, Quang Nam	C	Completed in 26/2/2018
QN24	Concrete road from Zlao residential cluster to communal center	Cho Chun, Nam Giang, Quang Nam	C	Completed in 26/4/2018
QN25	Drainage system in Por'ning village, Lang commune	Lang, Tay Giang, Quang Nam	C	Completed in 20/12/2018
<b>THUA THIEN HUE</b>				
TH01	Concretization of A Tau canal	A Roang, A Luoi, Thua Thien Hue	C	Completed in 30/7/2017
TH02	Communal house in Huong Son village	A Roang, A Luoi, Thua Thien Hue	C	Completed in 29/01/2019
TH03	Internal path in Pa Hy village	Hong Ha, A Luoi, Thua Thien Hue	C	Completed in 20/3/2019
TH04	Pa Ring - A Rom Inter-village path	Hong Ha, A Luoi, Thua Thien Hue	B	Under construction 50% progress. Will be completed before 30/9/2019
TH05	Newly building of communal house at the commune center	Hong Trung, A Luoi, Thua Thien Hue	C	Completed in 20/3/2019
TH06	Concretization of canals in Ka Cu 1 and Ka Cu 2 villages	Hong Van, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH07	Construct water supply systems for 3 villages of Hong Van commune	Hong Van, A Luoi, Thua Thien Hue	C	FS submitted to PPC for approval
TH08	Newly building of communal house in Viet Tien village	Hong Kim, A Luoi, Thua Thien Hue	C	Completed in 20/3/2019
TH09	Upgrading of roads in village 5	Hong Kim, A Luoi, Thua Thien Hue	C	Constructed by other capital source

TH10	Access road to production area in Can Tom stream	Huong Nguyen, A Luoi, Thua Thien Hue	C	Completed in 31/12/2017
TH11	Upgrading of C5 and C8 water supply systems	Huong Phong, A Luoi, Thua Thien Hue	C	FS submitted to PPC for approval
TH12	Upgrading of community house in Huong Phu and Huong Thinh villages	Huong Phong, A Luoi, Thua Thien Hue	C	Completed in 25/12/2018
TH13	Road and submersible bridge to production area in Ka Non 2 village	Huong Lam, A Luoi, Thua Thien Hue	C	Will be completed before 30/09/2019
TH14	Communal house in A So 1 village	Huong Lam, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH15	Concretization of canals in village 3	Thuong Quang, Nam Dong, Thua Thien Hue	C	Completed in Q2 2019
TH16	Internal path village 3, Thuong Quang commune	Thuong Quang, Nam Dong, Thua Thien Hue	C	Completed in April 2017
<b>Replace and additional subprojects</b>				
TH01	Internal path to production site of village 3	Thuong Quang, Nam Dong, Thua Thien Hue	C	Completed in Q2 2019
TH02	Internal path to production site of village 5	Thuong Long, Nam Dong, Thua Thien Hue	C	Completed in Q2 2019
TH03	Internal path to Village No.7 production site	Thuong Quang, Nam Dong, Thua Thien Hue	C	Completed in Q2 2019
TH04	Internal path to production area in village 1	Thuong Quang, Nam Dong, Thua Thien Hue	C	Completed in Q2 2019
TH05	Building fence, playing ground and toilet of Village No.5	Thuong Long, Nam Dong, Thua Thien Hue	C	Will be completed before 30/09/2019
TH06	Building fence, playing ground and toilet of Village No.7	Thuong Long, Nam Dong, Thua Thien Hue	C	Will be completed before 30/09/2019
TH07	Internal path to production area in Pa Hy village	Hong Ha, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH08	Water supply systems in 3 villages of Huong Lam commune	Huong Lam, A Luoi, Thua Thien Hue	C	Will be completed before 30/09/2019
TH09	Internal path in A Tia 1 village	Hong Kim, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH10	Upgrading communal house of Ta-Ay and A Nieng villages	Hong Trung, A Luoi, Thua Thien Hue	C	Will be completed before 30/09/2019
TH11	Inter-village road Cha Du - Nghia	Huong Nguyen, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH12	Internal path in Dut village	Hong Trung, A Luoi, Thua Thien Hue	C	Will be completed before 30/09/2019

TH13	Internal path in Hong Van commune	Hong Van, A Luoi, Thua Thien Hue	C	Completed in Q2 2019
TH14	Concrete road to production site from A Sap bridge to Ba Re streamlet	Huong Phong, A Luoi, Thua Thien Hue	C	Will be completed before 30/09/2019

19. The implementation progress of small-scale infrastructure subprojects is showing a noticeable achievement in compare with the previous monitoring period but it is still slow, especially for Thua Thien Hue province. Up to the end of June 2019, there are still 10 subprojects have not been completed, of which only 3 are now under construction.

20. For both Quang Tri and Quang Nam provinces, only 1 subproject of school construction in Quang Tri is still under construction. It is estimated that the construction work will be completed in September 2019.

21. QT02, a category B subproject has been cancelled. In the current 5 category B subprojects, 4 have been completed. QT01 and QT03 have been completed in 2015 and 2016 respectively while QN02 and QN03 have been completed in April 2018 and September 2017 respectively. There is only TH02 - Pa Ring - A Rom Inter-village path - in Hong Ha commune, A Luoi district, Thua Thien Hue is now under construction with the construction progress reaches 50%.

## II.2. The BCC-GEF Project

22. The establishment of Ngoc Linh Nature Reserve, Quang Nam province: On October 1, 2018, Quang Nam PPMU has signed the contract with the Consultant Firm to develop the establishment project for Ngoc Linh Nature Reserve. The Consultant Firm has completed the draft Establishment project of Ngoc Linh Nature Reserve and a consultation workshop has been held on 10 June 2019 in Tam Ky city, Quang Nam province. The Consultant is now revising establishment project reports before submitting to the PPC for approval.

23. Conservation and sustainable development plan (CSDP) or Master Plan for Nature Reserves (NRs): Four NRs already completed the draft of PA's CSDP. Provincial Department of Agriculture and Rural Development (DARD) have approved those planning reports. As those planning reports could not received approval from Provincial People Committee, the Project has issued official documents to recognize that this task has been completed with the approval of DARD. Consulting services for Ngoc Linh CSDP was transferred to the Sustainable Forest Management Plan (SFMP).

24. NR Operation and Management Planning (OMP): CPMU has issued Guidance on OMP preparation at Official document No. 27/BCC-BQL dated 05 March 2018. The OMP preparation progress of NRs is summarized as follow:

- 4 NRs - Song Thanh and Sao La in Quang Nam; Dakrong and North Huong Hoa in Quang Tri: DARDs have issued approval documents for OMP technical appraisal results.
- Phong Dien and Sao La NRs in Thua Thien Hue province: Thua Thien Hue DARD should approve the priority activities under two OMPs of these two NRs to get the legal basis for the approval and implementation of priority activities.
- Ngoc Linh NR in Quang Nam: The OMP is under development along with the development of the establishment project and the SFMP of the NR.

25. Village conservation planning (VCP): On June 20, 2018, CPMU has issued the technical Guideline for developing the conservation plan at village level. 40/40 villages have completed the draft VCPs. The priority activities of the 40 VCPs, which use the Project budget for implementation,

have been updated by CPMU and procurement methods were submitted to ADB and MONRE for approval and implement. Up to now, 14/40 VCP of villages in Quang Tri have been approved.

Potential impacts: The implementation of VCPs for 40 villages in buffer zone of 6 PAs not only contribute to increase the effectiveness of PA's management but also directly promote conservation activities at village level. Despite, there are potential environmental impacts from livelihood development of VCPs, the project tried to avoid negative environmental impacts by giving priority for direct conservation activities of VCPs. In other hand, mitigation measures will be applied and monitored in the VCP's implement process.

26. Capacity building for the staff of the NRs and relevant stakeholders:

- The PAMS1 Consultant team and CPMU has completed 12 of 14 technical training courses for staff of PAs, PPMU and village leaders. Two remaining technical training courses will be conducted after September 2019.
- *Training courses on OMP and VCP Preparation Guidances:* The PAMS1 Consultant team have completed training courses on Preparation of OMP and VCP for NRs including: (i) 07 courses on Preparation for OMP Guidances for 7 NRs that participated in the Project (implemented by PAMS1 Consultant team in 2018); (ii) 06 courses on VCP Preparation Guidance for 6 NRs and 6 prioritized villages (impemented by PAMS1 Consultant team in 2018).
- *Other training and capacity building of the Project:* Follow the approved implementation plan, the Project will implement other training courses in 2019 as follow: (i) 06 courses on livelihood development in 6 NRs to support livelihood improvement activities in the VCP of priority villages; (ii) 09 courses on community capacity building on PFES (implemented by PPMUs); (iii) 03 courses for NR capacity building on species conservation.

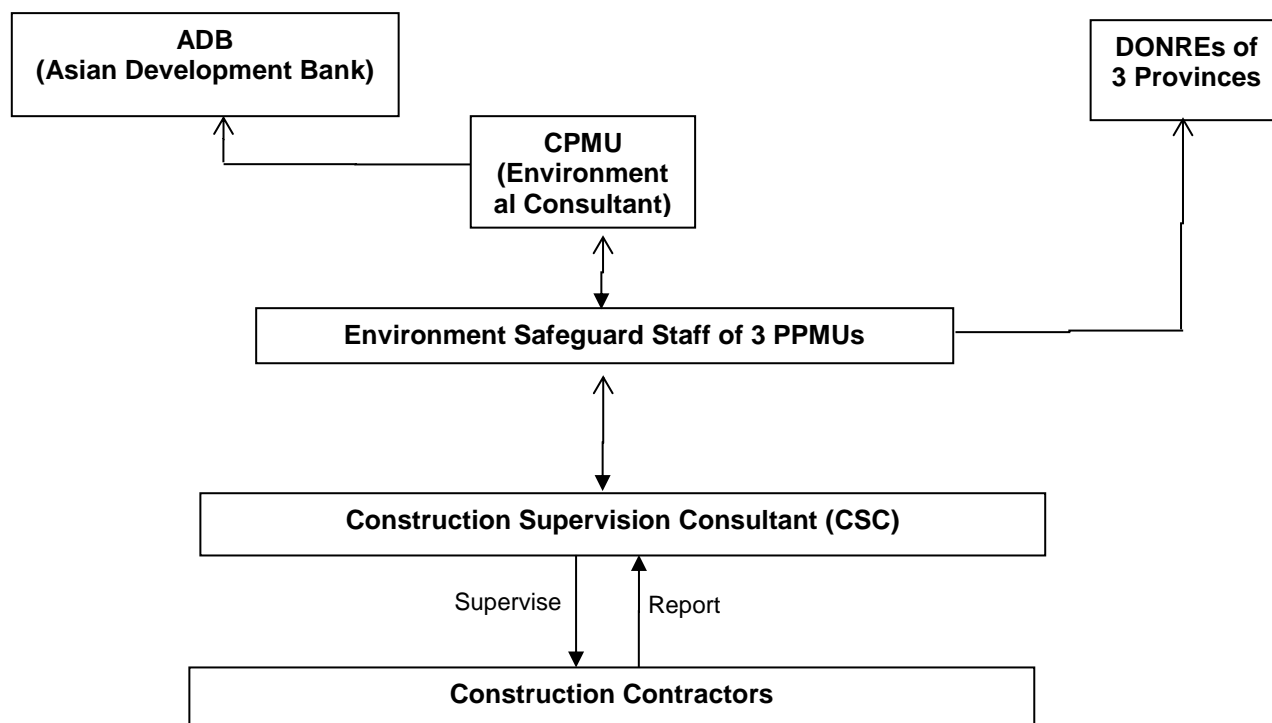
27. Sustainable Finance Improvement through the evaluation of Payments for forest environmental services (PFES): This activity has a positive impact, promoting community participation in forest resource protection. PFES experiences over the country will be studied so that the project can develop the guideline of extension of PFES within the project scope to avoid negative risks, social issues such as non-transparency in management, equity in benefit distribution. Up to now, PAMS1 consultant has been completed: (i) the PFES research report in three provinces and (ii) The technical guideline for extending PFES payment for villages and improve PFES payment effectiveness in buffer zone and around PAs. CPMU is designing the detail plan, the procurement plan for PFES mapping packet for 5 basins of hydropower projects in Thua Thien Hue province and submitting to ADB, MONRE for their approval to implement.

28. Sustainable Forest Management (SFM) and Enhancement of forest carbon stocks (REDD+) and establish provincial impact monitoring & protection system: the selection process with the No.1 contractor has almost completed. The Project is waiting for the official approval of the Project extension to finalize contractor selection. Up to 9 April 2019, the Government Office has issued Official Document No. 2850/VPCP-HTQT on the Project extension and budget revision for BCC-GEF. MONRE is under internal process to official approving the Project extension to the end of 30 June 2020. Thus, the total implementation of this contract is about 11 months if this contract is signed.

### 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*



29. 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.

30. List of environmental management personnel of the Project is shown in Table 3 below.

*Table 3 - List of environmental management personnel*

Stt	Name	Position	Contact
1	Nguyen Thanh Duong	CPMU's Consultant	nguyenthanhduong@gmail.com
2	Tran Ha Dien	Quang Nam PPMU's Officer	h.dientran@gmail.com
3	Luu Thi Binh	Quang Tri PPMU's Officer	cumy171@gmail.com
4	Cao Huy Thai	Thua Thien Hue PPMU's Officer	huythai1410@gmail.com

#### B. Incorporation of Environmental Requirements into Project Contractual Arrangements

31. 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 REA for Category C subproject and IEE for Category B 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

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

*Table 4 - 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

33. 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/QĐ-TTg dated February 08, 2012 of the Prime Minister promulgating some regulations on intensified enforcement of forest protection
- Decision 186/2006/QĐ-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 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/QĐ-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**

34. All the subprojects, including Category B subproject - Upgrading Pa Ring - A Rom Inter-village Internal Path in Pa Hy Village - 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.

35. In accordance to Decree No. 18/2015/ND-CP, all subprojects - should prepare Environmental Protection Plan (EPP). PPMUs have prepared EPPs for all subprojects and submitted to relevant DPCs. DPCs have approved EPPs and the subprojects have started construction.

## VII. MITIGATIONS MEASURES IMPLEMENTED IN THE REPORTING PERIOD

36. The subproject: "Upgrading Pa Ring - A Rom Inter-village Path" in Hong Ha commune, A Luoi district, Thua Thien Hue - Category B on Environment is under construction during the monitoring period. The construction progress of the subproject is about 50% of the total works. Suitable mitigation measures have been implemented to prevent the impact on surface water quality of Huong Dien Reservoir, Ung Hoong and A A Rivers as described in the subproject IEE. They are: (i) no temporary material stockpile near Huong Dien Reservoir, Ung Hoong and A A Rivers (50 m); (ii) Regularly collecting waste land to avoid sedimentation; (iii) wash construction vehicles and equipment near Huong Dien Reservoir, Ung Hoong and A A Rivers shall not be allowed; (iv) install sediment ditches at the construction site near Huong Dien Reservoir, Ung Hoong and A A Rivers. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Hong Ha CPC...



*Figure 2 - Paring - A Rom Inter-village Path subproject is under construction*

37. 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.

## **VIII. SITE ENVIRONMENTAL MONITORING**

38. Environmental monitoring plan has been prepared for all 5 environmental Category B subprojects. The Construction Supervision Contractor (CSC) is in charged for environmental monitoring. Environmental compliance monitoring is implemented by Construction Supervision Consultant and PPMU 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 PPMU Compliance with EMP implementation monitoring.

39. During the monitoring period, the Paring - A Rom Inter-village Path subproject has been constructing. The contractor has fully complied and implemented mitigation measures as in the EMP.

There is no environmental issue has arised during the monitoring period. The Contractor has implemented all suitable mitigation measures to minimize the environmental impact during subproject implementation.

## Mitigation Measures implemented for Paring – A Rom Inter-village Path subproject

Potential Impact	Mitigation Measure
<b>Construction Phase</b>	
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction	<p>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 Huong Dien Reservoir, Ung Hoong and A A Rivers (50 m)</p> <p>Ensure vehicles and equipment are maintained in good condition</p> <p>Regularly collecting waste land to avoid sedimentation;</p> <p>Wash construction vehicles and equipment near Huong Dien Reservoir, Ung Hoong and A A Rivers shall not allow avoiding pollution by lubricating oil from washing.</p> <p>Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on wastewater and hazardous wastes;</p> <p>Regularly collect and dispose-off the wastes.</p> <p>Install sediment ditches at the construction site near Huong Dien Reservoir, Ung Hoong and A A Rivers. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Hong Ha CPC.</p>
Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	<p>Inform construction schedule and scope to Hong Ha CPC and local people in Pa Ring and A Rom village in advance;</p> <p>Ensure equipment and vehicle maintenance is in good condition;</p> <p>Cover all trucks carrying raw materials to and from the construction sites and along NR49 with tarpaulin;</p> <p>Watering the construction sites of road section in dry and low humidity days, increasing the frequency of watering when passing through Pa Ring and A Rom village at least one time/ day.</p> <p>Mobile concrete mixing plants to be arranged a distance of 100 m away from Pa Ring and A Rom village</p>
Disruption to traveling of local peoples and/or their access to paddy field and production area	<p>Inform construction schedule and scope to Hong Ha CPC and local people in Pa Ring and A Rom villages through informal public consultation or any local people meetings and notice board in Hong Ha CPC;</p> <p>Arrange construction material neatly along the route and complete construction section by section to reduce the impact period;</p>
Health or safety risks to local people or construction workers	<p>Provide sufficient labor safety to workers such as safety clothes safety boots, helmet, gloves, mask... and train workers how to use them properly and patrol regularly to ensure compliance;</p> <p>Set up warning sign boards and lighting system at night time for the construction site to prevent traffic accident;</p> <p>Set up barricades, fences at the construction site to prevent unauthorized trespass;</p> <p>A first aid kit will be provided for construction sites to ensure patient will receive first aid timely before transporting them to Hong Ha Medical clinic;</p> <p>Collaborate with Hong Ha Medical Clinic to receive additional support.</p>

Potential Impact	Mitigation Measure

There is no environmental incidents has arised in the monitoring period for Thua Thien Hue as well as in both Quang Nam and Quang Tri provinces.

## IX. PUBLIC CONSULTATION, GRIEVANCE REDRESS MECHANISM

40. 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.

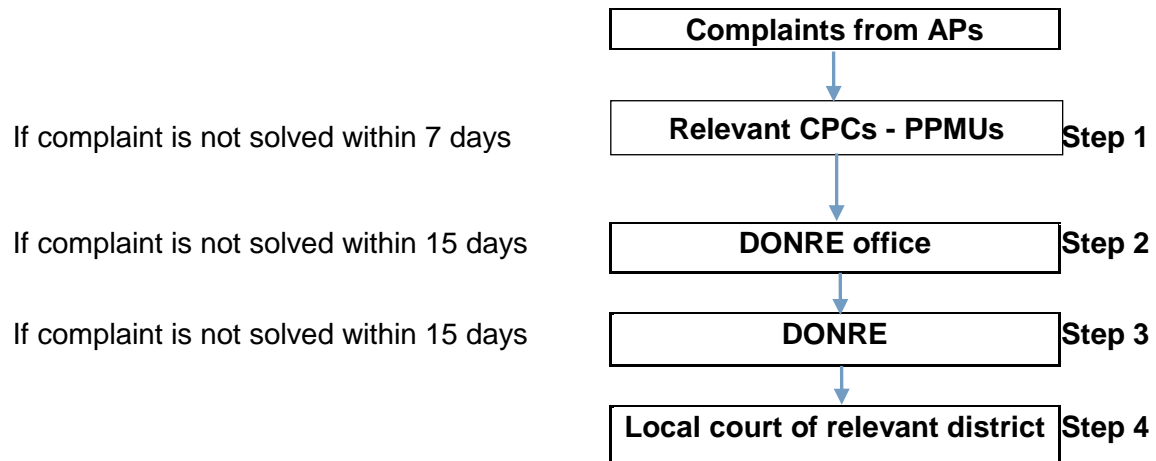
41. During the preparation of the subproject, information is disseminated to local people on the scope of the subproject, and environmental and social impacts. Negative impacts of an environmental or social nature, or resettlement impacts, may occur during the construction and operational phases have 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.

42. 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 PPMU to solve complaints and a representative of the PPMU 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.

43. 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:





*Figure 3 - Grievance redress process of BCC Project*

44. Public consultation has been implemented for all subprojects before construction start.
45. During the monitoring period of the first half of 2019, there is no complain and negative reflection from local people has been recognized.

## **X. INSTITUTIONAL STRENGTHENING AND TRAINING**

For BCC project, 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 (PPMUs) and District Project Implementation Units (DPIUs).

For BCC-GEF project, the training course on safeguards policies of ADB and Vietnam has been organized in Hue city in 4 days from 11/03 to 14/03/2019. 2 safeguards consultant of CPMU have provided the training. Total 26 participants (22 males and 4 females) whom are staff of the BBC-GEF PIUs and Nature Reserves, National Parks have joined the training course. After the training course, the participants has gained the knowledge on ADB Safeguards policies as stated in ADB SPS 2009 as well as how environmental protection could integrated in their daily works.



*Figure 4 - Training course on safeguards requirement in Hue city - March 2019*

## **XI. CONCLUSION**

### **A. Overall Progress of Implementation of Environmental Management Measures**

For BCC Project, Compliance with the Project's Environmental Safeguards during the construction of subprojects under small-scale infrastructure component for 1 category B and all category C subprojects has been satisfactory. The construction contractors have fully complied with the regulations on environment as required in REAs, EPP and EARF. The environmental monitoring and reporting system has been established to ensure the implementation of mitigation measures are qualified. Environmental monitoring reports have been prepared and submitted to the relevant PPMU in time.

There is neither infrastructure construction work nor waste-generated activities under BCC-GEF. The BCC-GEF concentrate on strengthening the institutional and community capacities in the management of natural reserve and surrounding areas. The main impacts of BCC-GEF are positive impacts on environment so there is no environmental monitoring system has been established for this Project package. All activities and implementation progress of BCC-GEF during this monitoring period have been integrated in this monitoring report.

### **B. Problems Identified and Actions Recommended**

The implementation progress is still slow. Along with 4 category C subprojects, TH04 is the only one category B subproject under construction during the monitoring period. Up to the end of July 2019, 8 subprojects in Thua Thien Hue are under construction and expect to be completed before 30 September 2019. Two category C subprojects – TH07 and TH11 – are still not constructed yet. The Feasibility Reports (FS) of these two subprojects have been submitted to Thua Thien Hue Provincial People Committee for approval. Hue PPMU should speed up the process and start the construction work of these two subprojects as soon as possible in order to complete them before 30 September 2019.

In Quang Tri province, QT24 - Upgrading Huc Nghi Primary and Secondary School subproject has been delayed as the local Education Department requested to change the classroom location. The delay in construction progress has led to increase the risk of accident as the pupil has come back to the school for a new school year. The contractor has moved the camps out of the school area, ensures the safety condition for the pupil and teacher of Huc Nghi school. At the end of July 2019, the second floor of the main building has been completed with the estimate total construction progress of 85%. The construction work will be completed before 15 September 2019 in order to hand over the building for operation before 30 September 2019.

## 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 PPMU  
every quarter during the construction phase)

Form No.: ..... month ..... year.....

**1. Subproject name:**

**2. CSC Information:**

Name: .....

Company: .....

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	Contractor compliance level (within 3 months)			
		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 gases, noise and vibration	- Legal registration of construction equipment				
	- No construction's activities at rest time				
	- Stockpile located far from sensitive receivers and down				
3. Water pollution	- Site clean up after construction complete				
	- 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 management	- Dump waste at the designated location (with permission meeting minutes)				
	- Regularly collect and transfer waste from sites				
II. Social issue					
5. Water supply interruption (irrigation project),	- Inform local authorities and people in advance.				
	- Construction package by package.				

Environmental compliance issue	Mitigation measure	Contractor compliance level (within 3 months)			
		1	2	3	4
6. Health and safety issue	- Equip worker with PPE				
	- 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				
7. Influx of worker, social conflict	- Regularly clean the camp site				
	- Register for worker from outside.				
	- Training on social evils for worker				
8. Road and movement block	- Ensure safety and security at construction and camp				
	- Keep construction material and stockpile tidy				
	- 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 report of QT24 in Quang Tri

Subproject: **QT24- Upgrading Huc Nghi Primary and Secondary School**

Type: House & Building;

Location: Huc Nghi commune, Dakrong district, Quang Tri province

Status: Under Construction; Expected completion date: September 2019.

Contractor: Hung Khoi one member limited Company

CSC: Joint venture between Quang Tri Investment and Construction Consultant Joint stock company, Phuc Thanh Construction, Consultation Joint-Stock Company, Quang Thanh Construction Consultation Joint-Stock Company.

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

There is no environmental issue has happen during the monitoring period. The Contractor has implemented all suitable mitigation measures to minimize the environmental impact during subproject implementation.



**QT24 Field Photo in construction phase**

### **Appendix 3 - Environmental monitoring report of TH04 in Thua Thien Hue**

Subproject: TH04: "Upgrading Pa Ring - A Rom Inter-village Path" in Hong Ha commune, A Luoi district, Thua Thien Hue

Type: General. Category: B

Location: Hong Ha commune, A Luoi district, Thua Thien Hue province

Status: Under Construction; Expected completion date: September 2019.

Contractor: Huy Hoang construction limited company

CSC: Joint venture between Hanoi trading service and construction – Consultant JSC and ACI E&C construction engineering JSC.

Monitoring parameters: surface water quality of Huong Dien stream, A A and Ung Hom Rivers, wastewater from workers; exhausted gases from construction machines; dust, vibration, noise; construction waste and domestic waste.

There is no environmental issue has happen during the monitoring period. The Contractor has implemented all suitable mitigation measures to minimize the environmental impact during subproject implementation.





#### Appendix 4 – Applied Mitigation Measures for Paring – A Rom Inter-village Path subproject

Potential Impact	Mitigation Measure
<b>Construction Phase</b>	
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction	<p>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 Huong Dien Reservoir, Ung Hoong and A A Rivers (50 m)</p> <p>Ensure vehicles and equipment are maintained in good condition</p> <p>Regularly collecting waste land to avoid sedimentation;</p> <p>Wash construction vehicles and equipment near Huong Dien Reservoir, Ung Hoong and A A Rivers shall not allow avoiding pollution by lubricating oil from washing.</p> <p>Waste water and wasted lubricating oil should be controlled in accordance with relevant regulations on wastewater and hazardous wastes;</p> <p>Regularly collect and dispose-off the wastes.</p> <p>Install sediment ditches at the construction site near Huong Dien Reservoir, Ung Hoong and A A Rivers. Collect sediment from the ditches regularly and transfer to the temporary dumping sites as agreed with Hong Ha CPC.</p>
Increased local air pollution due to rock crushing, cutting and filling works; noise and vibration due to material transportation and operation of construction machines	<p>Inform construction schedule and scope to Hong Ha CPC and local people in Pa Ring and A Rom village in advance;</p> <p>Ensure equipment and vehicle maintenance is in good condition;</p> <p>Cover all trucks carrying raw materials to and from the construction sites and along NR49 with tarpaulin;</p> <p>Watering the construction sites of road section in dry and low humidity days, increasing the frequency of watering when passing through Pa Ring and A Rom village at least one time/ day.</p> <p>Mobile concrete mixing plants to be arranged a distance of 100 m away from Pa Ring and A Rom village</p>
Disruption to traveling of local peoples and/or their access to paddy field and production area	<p>Inform construction schedule and scope to Hong Ha CPC and local people in Pa Ring and A Rom villages through informal public consultation or any local people meetings and notice board in Hong Ha CPC;</p> <p>Arrange construction material neatly along the route and complete construction section by section to reduce the impact period;</p>
Health or safety risks to local people or construction workers	<p>Provide sufficient labor safety to workers such as safety clothes safety boots, helmet, gloves, mask... and train workers how to use them properly and patrol regularly to ensure compliance;</p> <p>Set up warning sign boards and lighting system at night time for the construction site to prevent traffic accident;</p> <p>Set up barricades, fences at the construction site to prevent unauthorized trespass;</p> <p>A first aid kit will be provided for construction sites to ensure patient will receive first aid timely before transporting them to Hong Ha Medical clinic;</p> <p>Collaborate with Hong Ha Medical Clinic to receive additional support.</p>