

Environmental Monitoring Report

Semestral Report
January 2019

Loan 3173-VIE: Integrated Rural Development Sector Project in the Central Provinces - Additional Financing

CURRENCY EQUIVALENTS

(as of December 2018)

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.00004292
\$1.00	=	VND 23,300

ABBREVIATIONS

ADB	Asian Development Bank
AFD	Agence Française de Développement
CPMU	Central Project Management Unit
CSC	Construction Supervision Consultant
DONRE	Department of Natural Resources and Environment (provincial)
EMP	Environmental Management Plan
IRDSPCP	Integrated Rural Development Sector Project in the Central Provinces
IEE	Initial Environmental Examination
LIC	Loan Implementation Consultants
MONRE	Ministry of Natural Resources and Environment
PPMU	Provincial Project Management Unit
UXO	Unexploded Ordinance

WEIGHTS AND MEASURES

dB(A)	–	Decibel (weighted average)
ha	–	Hectare
kg/d	–	kilogram per day
km	–	Kilometer
km ²	–	square kilometer
m	–	Meter
m ²	–	square meter
m ³	–	cubic meter
m ³ /d	–	cubic meters per day
m ³ /s	–	cubic meters per second
mg/m ³	–	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 executing agency (EA) for the Project is the Ministry of Agriculture and Rural Development (MARD), which has appointed the Agricultural Projects Management Board (APMB) to oversee the implementation of the Project. The implementing agencies (IAs) for infrastructure subprojects are the respective provincial peoples' committees (PPCs) of the 06 participating provinces. A Central Project Management Unit (CPMU) established within APMB, is responsible for project implementation at the national level. At provincial level, day to- day management is the responsibility of provincial project management units (PPMUs) established by PPCs of participating provinces within the provincial Departments of Agriculture and Rural Development (DARDs).

2. This report has been prepared to comply with "Environmental Assessment and review Framework" (EARF) and sub-projects Initial Environmental Examination (IEEs). It documents the implementation of the Environmental Management Plan (EMP) and the results of the Environmental Monitoring for all the ongoing civil works of the Project. This report presents the results of the environmental management and monitoring activities from July to December 2018. The report covers the:

- Environmental capacity building activities conducted during the period;
- Status of compliance with ADB environmental loan covenants and with the environmental requirements of the Government of Vietnam during the report period;
- Status of implementation of the environmental mitigation measures during the report period based on the IEE and EMPs, Updated EMP and CEMPs, including documentation of complaints received and corresponding action/resolution; and
- Results of the environmental monitoring of the Community Supervision Boards

3. This environment monitoring report is in line with the TOR for the environmental consultant and help providing information to the project owner on outstanding environmental issues during the subproject implementation, so that corrective actions can be taken. The report was prepared through reviewing the monthly reports of all relevant stakeholders and contractors from CPMU/PPMUs on the monitoring parameters contained in Annex 1.

B. Project Objective and Background

4. Loan 3173 (SF), which is an additional loan for the Integrated Rural Development Sector Project in the Central Provinces (the Project), was approved by ADB on 20th October 2014. The total cost of the additional financing was estimated at \$92.5 million. ADB provided a loan of \$85 million equivalent. The Government committed \$7.5 million equivalent in counterpart financing. The Loan Agreement between ADB and the State Bank of Viet Nam was signed on 23 January 2015, became effective on 22 June 2015 and is scheduled to close on 30 June 2019. The responsibility for additional loan administration was delegated from ADB Headquarters to Vietnam Resident Mission (VRM) in November 2014.

5. The project objective impact is to improve livelihoods, incomes, and standards of living for the region's rural population through increased agricultural productivity, wider employment opportunities, improved health and education levels, and reduced exposure to natural disasters. The project outcome is to improve quality, greater coverage, and better integration of rural infrastructure in the Central Region with increased awareness of the need for operation and maintenance. The additional financing outputs include: (i) improved productive rural infrastructure (PRI); (ii) improved capacity of (a) national, provincial, district and commune staff in technical design, and (b) farmers in agricultural production techniques; and (iii) improved project management skills for infrastructure development

II. PROJECT IMPLEMENTATION PROGRESS (physical progress of the project and subprojects)

A. Subproject Status under construction

6. Up to the end of December 2018, there are 31 subproject construction packages currently active, of which 16 subprojects already completed under the IRDSPCP- additional financing. The status of subproject construction packages by province is shown in Table 1 (Subproject Status by Province).

Table 1: Subproject Status by Province

No	Province	Name of subproject	No. of Packages started	No. of Packages completed	No. of Packages on going
Original Works					
I	Ha Tinh	5 subprojects	5	3	2
1		Upgrading canal system of Rac River irrigation	1	1	0
2		Upgrading irrigation/drainage and rural road system in flooding-prone area of Loc Ha District: Repairing and upgrading the Loc Ha irrigation/drainage system	1	0	1
3		Upgrading Ho Dam and Tiem River canal system: Repairing and upgrading Ho dam and Tiem river canal system	1	1	0
4		Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District:	1	0	1
5		Upgrading irrigation system of 3 Communes, Thach Ha District: Repairing and upgrading the irrigation system of 3 south-western communes of Thach Ha district	1	1	0
II	Thua Thien- Hue	3 subprojects	3	1	2
1		Upgrading Dai Giang River Dike system	1	0	1
2		Upgrading Dong Tay Hoi Tom Dike combining with on-farm road	1	1	0
3		Upgrading road combining with flood protection dike Pho Lai - Thanh Can - Nam Duong - Co Thap	1	0	1
III	Binh Dinh	6 subprojects	6	6	0
1		Upgrading Nui Mot Reservoir's canal system	1	1	0

No	Province	Name of subproject	No. of Packages started	No. of Packages completed	No. of Packages on going
2		Upgrading Lai Giang Dam's primary canal	1	1	0
3		Upgrading Hoi Khanh Reservoir	1	1	0
4		Upgrading My Thuan Reservoir	1	1	0
5		Upgrading rural infrastructures in NhonTho - NhonKhanh	1	1	0
6		Upgrading Van Phong canal system	1	1	0
IV	Phu Yen	4 subprojects	4	2	2
1		Consolidate main canal and branch canals of Dong Cam irrigation system	1	0	1
2		Upgrading road and sluice of An Cu - An Hiep - An Hoa	1	1	0
3		Upgrading Suoi Cau weir and access road Subproject	1	1	0
4		Upgrading irrigated canal of Dong Tron reservoir's irrigation system	1	0	1
V	Ninh Thuan	2 subprojects	2	2	0
1		Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal	1	1	0
2		Improving and upgrading Cham canal and rural road cum management of South primary canal	1	1	0
VI	Binh Thuan	4 subprojects	4	4	0
1		Upgrading Du Du reservoir, Ham Thuan Nam district	1	1	0
2		Upgrading Saloun reservoir, Ham Thuan Bac district	1	1	0
3		Upgrading/consolidating Ba Bau North primary canal, Ham Thuan Nam district	1	1	0
4		Upgrading/consolidating secondary canal of Quao river, Ham Thuan Bac district	1	1	0
Additional Works					
1	Ha Tinh	Upgrading canal system of Rac: Repairing, upgrading Song Tri canal and branch canals of Rac river N2 canal	0		
2		Upgrading irrigation system, rural road and market in 5 flooded communes of Duc Tho District: Repairing, upgrading and constructing irrigation, drainage canals, pumping station and flood roads	1	0	1
3	Thua Thien- Hue	Upgrading Dai Giang River Dike system Subproject: Civil construction and insurance of the sluice of Quan.	1	0	1
4	Binh Dinh	Upgrading Van Phong Canal System	1	0	1
5	Phu Yen	Upgrading Tam Giang irrigation system	FS is still not completed		
6	Ninh Thuan	An Hai Commune Irrigation System	1	0	1

No	Province	Name of subproject	No. of Packages started	No. of Packages completed	No. of Packages on going
7		Improving and upgrading Cham canal and rural road cum management of South primary canal: Constructing canal and facilities of Cham secondary canal system	1	0	1
8	Binh Thuan	Upgrading North primary canal of Ba Bau irrigation system Subproject: Constructing canals, facilities and equipment from K0+025.7 to K6+880.04	1	0	1
9		Upgrading primary canal of Quao River Subproject: Upgrading, rehabilitating 05 primary canals of N03, N9, N13, N19 and N27	1	0	1
Total	Whole the subprojects	26 subprojects	31	18	13

Remark:

- The number completed and the number currently active at the end of the reporting period is derived from the most recent provincial quarterly reports and all provincial quarterly reports are reviewed & approved by CPMU with supported by LIC.
- 31 subproject construction packages included: Repairing and upgrading inter commune & commune road, Upgrading & lining Irrigation canal scheme/flood protection dike system.

B. Compliance with environment related project covenants

List all environment related loan covenants, and assess project's compliance with the covenants (Table format is appropriate, with concluding statement on compliance or non-compliance, and corrective actions as needed)

Table 2: Checklist on EMP compliance with Loan Covenant

No	Loan Covenants	Compliance Status
Particular Covenants		
Environment		
	The Borrower shall ensure and cause the Project Provinces to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Subproject and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventive actions set forth in a Safeguards Monitoring Report. [Loan Agreement, Schedule 5, para. 2]	Being complied with. The preparation and design of each Subproject and all Project facilities are being complied with (a), (b), (c) and (d).
	The Borrower shall further ensure that (a) no Subprojects with significant adverse environmental impacts are financed under the Project; and (b) Subprojects are carried out in accordance with environmental assessment procedures provided in the EARF as agreed between the Borrower and ADB. [Loan Agreement, Schedule 5, para. 3]	Being complied with for (a) and (b). With the support from LIC and guided by ADB, 09 Phase 3 subprojects in 05 provinces are being screened. The final categorization will be submitted to ADB for endorsement of category B environment. to follow project EARF.

III. SUMMARY OF ENVIRONMENT MONITORING RESULT OF PROJECT

A. Institutional Responsibilities and Internal environmental management system

1. Environmental Monitoring Programs

7. General environmental safeguard monitoring with associated Grievance Redress Mechanism is undertaken by construction supervision consultant and environmental specialist under LIC during construction phase and will be taken by Operating Companies during operation phase. To ensure the required policies and procedures and plans for minimization of negative environmental impacts, environmental monitoring programs have been developed in terms of environmental effects monitoring and environmental compliance monitoring;

8. Environmental effects monitoring is carried out to examine impacts of the subproject in relation to ambient environmental conditions e.g. ambient air, noise, sensitive water bodies, soil and groundwater and sensitive ecosystems etc... For this programme, environmental effect monitoring is mainly based on observation.

9. Environmental compliance monitoring is carried out to check compliance with operating procedures, technical standards and/or contractor specifications in the EMP e.g. the safety during construction, construction worker camp sanitation and hygiene conditions, wastes including hazardous disposal practices during construction, erosion control etc...

10. The environmental monitoring programs have been developed to reflect the generally low level of environmental impact expected to arise from subproject implementation. Monitoring methods is mainly observation and community consultation,

equipment to measure is applied if high air , noise , water quality pollution was observed the predicted level of environmental impact.

11. The relevant stakeholders (such as the subproject's PPCs, DPCs, DONREs, DARDs, CPMU, PPMUs, CSCs, CCs, Community Supervision Board (CSB), Vietnamese Fatherland Front, Woman Union & other associations during construction stage; and The Work Management Unit/ Irrigation Drainage Management Company, Community Supervision Board /CSB during operation & maintenance stage)need to ensure the EMP implementation as their responsibilities. CPMU, PPMUs, CSCs and CCs of 6 provinces (Phu Yen, Binh Dinh, Ninh Thuan, Binh Thuan, Ha Tinh, Hue appointed officers/staffs to be in charge of environmental management. (see Table 3)

Table 3: Internal environmental management system of Rural Development Sector Project in the Central provinces- Additional financing

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
Original Works										
	Ninh Thuan									
1	Ninh Thuan	NT1 Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal 01/HDXD dated:13/5/2016 completion date: 30/11/2016	Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal Lot 1: Construction canal and structure on canal, section from K0+500 - to K5+04	+ Name: joint venture of Son Long Thuan Construction and Trading Company Limited and Binh Thuan Infrastructure Development Construction Joint Stock Company + Address: "No 107 , Tran Quang Dieu Street, Thanh Son Ward, Phan Rang-Thap Cham City, Ninh Thuan Province" and "No 120, Tran Quy Cap Street, Duc Long Ward, Phan Thiet City, Binh Thuan Province"	13/5/2016	13/5/2016	Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construction Consultant	Mr Dang Nang Triet	Completed
2	Ninh Thuan	NT1 Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal 02/HDXD dated:13/5/2016 completion date: 30/11/2016	Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal Lot 2: Construction canal and structure on canal, section from K5+042 to K8+235 and rural road cum management of the section from K5+042 to K8+235	+ Name: joint venture of Hoang Nhan investment and construction Joint Stock Company and Gia Viet Joint Stock Company and Lam Dong investment and Hydraulic Construction Joint Stock Company + Address: "No 84B, 21/8 Street, Phu Ha Ward, Phan Rang – Thap Cham City, Ninh Thuan Province" and "No 57, Ngo Gia Tu Street, Thanh Son Ward, Phan Rang – Thap Cham City, Ninh Thuan Province" and "No 68, Hai Ba Trung Street, 6 Ward, Da Lat City, Lam Dong Province"	13/5/2016	13/5/2016	Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construction Consultant	Mr Duong Truong Ky	Completed
3	Ninh Thuan	NT1 Improving and upgrading the beginning section of North primary canal and rural	Improving and upgrading the beginning section of North primary canal and rural road cum	+ Name: joint venture of Ngoc Anh construction private business and Ninh Thuan construction Joint Stock Company	13/5/2016	13/5/2016	Mr Pham Ba Luat/Ninh Thuan	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on	Mr Le Van Ba & Mr Doan Duc Thanh	Completed

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		road cum management of g 03/HDXD dated:13/5/2016 completion date: 30/11/2016	management of the North primary canal Lot 3: Construction canal and structure on canal, section from K8+235 to K10+000 and rural road cum management of the section from K8+235 to K19+525,4	+ Address: "No 06A, Ha Huy Tap Street, Phuoc My Ward, Phan Rang-Thap Cham City, Ninh Thuan Province" and "No 53, Nguyen Van Troi Street, Thanh Son Ward, Phan Rang – Thap Cham City, Ninh Thuan Province"			PPMU	Construction Consultant		
4	Ninh Thuan	NT2 Improving and upgrading Cham canal and rural road cum management of South primary canal 04/HDXD dated:13/5/2016 completion date: 30/11/2016	Improving and upgrading Cham canal and rural road cum management of South primary canal Lot 1: Construction of Cham canal (the length of 4,604 km) and structures on canal	+ Name: joint venture of Tan Phu Trading And Construction Joint Stock Company and Song Han Investment Construction Corporation + Address: "No. 344 , Phong Son Street, Nam Binh Ward, Ninh Binh City, Ninh Binh Province" and "No 36/21, D2 Street, Binh Thanh Ward, Ho Chi Minh City"	17/5/2016	17/5/2016	Mr Pham Ba Luot/Nin h Thuan PPMU	Mr Nguyen Tan Thi/ The Central- South Part Limited Join Stock Campany	Mr Hoang Manh Thang	Completed
5	Ninh Thuan	NT2 Improving and upgrading Cham canal and rural road cum management of South primary canal 05/HDXD dated:13/5/2016 completion date: 30/11/2016	Improving and upgrading Cham canal and rural road cum management of South primary canal Lot 2: Construction of rural road cum management of South primary canal (the length of 10,85 km) and structures on road	+ Name: Viet Nam Construction Joint Stock Company No 12 + Address: No 57 , Vu Trong Phung Street, Thanh Xuan Ward, Thanh Xuan District, Ha Noi city	17/5/2016	17/5/2016	Mr Pham Ba Luot/Nin h Thuan PPMU	Mr Nguyen Tan Thi/ The Central- South Part Limited Join Stock Campany	Mr Nguyen Chi Dung	Completed
	Binh Thuan									
6	Binh Thuan	BT3 Upgrading/ consolidating Ba Bau North primary canal, Ham Thuan Nam district	Upgrading/consolida ting Ba Bau North primary canal, Ham Thuan Nam district Lot 1: Construction	+ Name: Binh Thuan Infrastructure Development Construction Joint Stock Company	7/6/2016	22/6/2016	Mr Nguyen Hong Truong	Mr Hoang Nhu Bao	Ms Le Thi Dieu Hien	Completed

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		07/2016/HĐTC-DAMT-KVBS dated:07/6/2016 completion date: 07/6/2017	of canal, structure on canal and installation of equipment at section K0-K6	+ Address: "No 120, Tran Quy Cap Street, Duc Long Ward, Phan Thiet City, Binh Thuan Province"						
7	Binh Thuan	BT3 Upgrading/ consolidating Ba Bau North primary canal, Ham Thuan Nam district 08/2016/HĐTC- DAMT-KVBS dated:09/6/2016 completion date: 09/6/2017	Upgrading/consolida ting Ba Bau North primary canal, Ham Thuan Nam district Lot 2: Construction of canal, structure on canal and installation of equipment at section K6-KC	+ Name: Hong Dao Company Limited. (Công ty TNHH Hồng Đào) + Address: 3 Quarter, Cau Giat Town , Quynh Luu District, Nghe An Province	9/6/2016	22/6/2016	Mr Nguyen Hong Truong	Ms Le Thi Thanh Nguyen	Mr Vu Hong Dao	▪ Completed
8	Binh Thuan	BT1 Upgrading Du Du reservoir, Ham Thuan Nam district 10/2016/HĐTC- DAMT-KVBS dated:09/6/2016 completion date: 09/6/2017	Upgrading Du Du reservoir, Ham Thuan Nam district : Construction of the whole subproject	+ Name: Binh Thuan Infrastructure Development Construction Joint Stock Company + Address: "No 120, Tran Quy Cap Street, Duc Long Ward, Phan Thiet City, Binh Thuan Province"	9/6/2016	23/6/2016	Mr Nguyen Hong Truong	Mr Binh Vinh Thi	Mr Do Duc Tuan	▪ Completed
9	Binh Thuan	BT4 Upgrading/consoli dating secondary canal of Quao river, Ham Thuan Bac district 09/2016/HĐTC- DAMT-KVBS dated:09/6/2016 completion date: 09/7/2017	Upgrading/consolida ting secondary canal of Quao river, Ham Thuan Bac district : Construction and installation of the whole subproject	+ Name: Joint venture Minh Anh Construction Joint Stock Company and An Hoa Company Limited + Address: "No 70, Bui Van Di street, Phu Ly City, Ha Nam province" and "No 231, Truong Chinh street, Phu Ly city, Ha Nam province"	9/6/2016	27/6/2016	Mr Nguyen Hong Hiep & Mr Nguyen Hong Truong	Mr Nguyen Quoc Thanh/Institute of Central Region's Training & Applied Science	Mr Doan Xuan Phan	▪ Completed
10	Binh Thuan	BT2 Upgrading Saloun reservoir, Ham Thuan Bac district 16/2016/HĐTC-	Upgrading Saloun reservoir, Ham Thuan Bac district: Construction and installation of	+ Name: Dai An Investment Construction Co., JSC (Công ty cổ phần đầu tư xây dựng Đại An) + Address: No. 36B/41, Thai Ha	28/9/2016	17/10/2016	Mr Nguyen Hong Truong	Mr Dinh Cong Thanh	Mr Nguyen Hoang Thao	▪ Completed

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		DAMT-KVBS dated:28/9/2016 completion date: 28/10/2017	equipment for the whole subproject	Street, Trung Liet Ward, Dong Da district, Ha Noi city						
	Binh Dinh									
11	Binh Dinh	BD2 Upgrading Lai Giang Dam's primary canal 26/2016/HĐXL dated:30/5/2016 completion date: 30/5/2018	Upgrading Lai Giang Dam's primary canal Lot 1: Upgrading main canal and facilities from K15+934 to K19+248 and N4 canal from K0+000 to K1+529, and N2-1 canal from K0+000 to K8+376	+ Name: joint venture of Thanh Nhan Construction Company Limited and Do Thanh private business + Address: "No 293B, Ngo Gia Tu Street, Binh Dinh Ward, An Nhon town, Binh Binh Province" and "No. 39, Quang Trung Street, Tang Bat Ho town, Hoai An district, Binh Binh Province"	30/5/2016	5/6/2016	Mr Nguyen Tan Vinh	Mr Vo Anh Tu / Hoang Le Limited Join Stock Company on Construction Consultant	Mr Nguyen Van Trieu & Nguyen Vuong Quoc Bao	▪ Completed
12	Binh Dinh	BD2 Upgrading Lai Giang Dam's primary canal 27/2016/HĐXL dated:30/5/2016 completion date: 30/5/2018	Upgrading Lai Giang Dam's primary canal Lot 2: Upgrading N2 canal and facilities from K0+000 to K3+981 and from K4+964 to K11+648; and N2A canal from K0+000 to K2+575	+ Name: joint venture of Nam Ngan Private business and Kim Thanh General Construction Company Limited and Nguyen Tin Construction Company Limited + Address: "No 96, Ngo May Street, Quy Nhon city, Binh Binh Province"; "Phung Du 2 hamlet, Hoai Hao commune, Hoai Nhon district, Binh Binh Province" and "De Duc 3 hamlet, Hoai Tan commune, Hoai Nhon district, Binh Binh Province"	30/5/2016	5/6/2016	Mr Nguyen Tan Vinh	Mr Nguyen Xuan Phi /Kieu Viet Limited Join Stock Company on Construction Consultant	Ms Le Thi Ninh	▪ Completed
13	Binh Dinh	BD6 Upgrading Van Phong canal system: 29/2016/HĐXL dated:13/6/2016 completion date: 20/6/2018	Upgrading Van Phong canal system: Upgrading N24 canal and facilities; N24-1 canal; N24-1A canal; N24-2; N24-3 canal; N24-4 canal; N24-5 canal; N24- 5A canal; N24-2-2	+ Name: joint venture of Tan Thanh Construction Company Limited and Dinh Phat Company Limited + Address: "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district, Binh Binh Province" and "No 505, Tran Phu street, Binh Dinh ward, An Nhon Town, Binh Dinh Province"	13/6/2016	20/6/2016	Mr Nguyen Tan Vinh	Mr Cao Dinh Tan / An Thinh Limited Join Stock Company on Construction Consultant	Mr Vo Van Loi	▪ Completed
14	Binh Dinh	BD 5 –XL05 Upgrading rural infrastructures in	Upgrading rural infrastructures in Nhon Tho – Nhon	+ Name: Bien Dong consultant and Construction JSC (Cty CP tu van và xây dựng Bien Dong)	28/11/201 6	14/3/2017	Mr Nguyen Tan	Ms Nguyen Thi Bich Lien / Binh Dinh	Mr Ho Manh Cuong	▪ CEMP was prepared

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		Nhon Tho – Nhon Khanh: 25/2016/BQL-HDXL dated: 28/11/2016 completion date: 12/2018	Khanh: Lot 1 : Building new Truong Cuu bridge from K4+289 to K4+454; length = 165.00 m	+ Address: " No. 19, lane A, Nguyen Sy Sach street, Trung Tien living quarter, Hung Dung ward, Vinh city, Nghe An province"			Vinh	Transportation Design Consultant Limited Join Stock Company		by contractors and approved PPMU ▪ The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more with explanation & reflection on the issues arise, date, time and location ▪ Completed : 100 %
15	Binh Dinh	BD5-Upgrading rural infrastructures in Nhon Tho – Nhon Khanh: 46/2016/BQL-HDXL dated: 09/12/2016 completion date: 20/12/2018	Upgrading rural infrastructures in Nhon Tho - Nhon Khanh: Lot 2 : Upgrading the rural road and its facilities in main route from K0+000 to K4+289 and from K4+454 to K5+508; upgrading branch road and its facilities from K0+000 to K0+456	+ Name: Joint venture: Minh Hieu General Construction Co., Ltd; Thuan Duc construction Co.,Ltd + Address: " Lot D1 industrial cluster, Binh Dinh ward, An Nhon town, Binh Dinh province " Lot 7-8-9, Huynh Tan Phat street, Dong Da ward, Quy Nhon city, Binh Dinh province"	9/12/2016	14/3/2017	Mr Nguyen Tan Vinh	Mr Ho Thanh Trang/ Binh Dinh Branch T27 Consultant Join Stock Company	Mr Tran Van Quy	▪ CEMP was prepared by contractors and approved PPMU ▪ The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more with explanation & reflection on the issues arise, date, time and location ▪ Completed : 100 %
16	Binh Dinh	BD3 Upgrading Hoi Khanh Reservoir 42/2016/BQL-HDXL dated: 09/12/2016 completion date: 20/12/2018	Upgrading Hoi Khanh Reservoir: Lot 01: Upgrading head works: earth dam, spillway and intake	+ Name: joint venture Nhon Loc General Construction Co., Ltd and 47 Construction JSC + Address: " No. 84, Nguyen Thi Minh Khai street, Phu My town, Binh Dinh province" and "No. 08, Bien Cuong street, Quy Nhon city, Binh Dinh province"	9/12/2016	10/2/2017	Mr Nguyen Tan Vinh	Ms Nguyen Thi Thu Trang / of Central Region's Training & Applied Science	Mr Le Tien Hao	▪ CEMP was prepared by contractors and approved PPMU ▪ The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more with explanation & reflection on the issues arise, date, time and location

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										<ul style="list-style-type: none"> Completed: 100 %
17	Binh Dinh	BD3 Upgrading Hoi Khanh Reservoir 45/2016/BQL-HDXL dated: 09/12/2016 completion date: 20/12/2018	Upgrading Hoi Khanh Reservoir: Lot 02. Building new Ong Tan weir, Ong Tan branch canal from K0+000 to K2+918; N2 canal from K0+000 to K1+375. Lining N2 canal and facilities from K1+375 to K3+303; N1 canal from K0+000 to K1+055; N1-2 canal from K0+000 to K0+107; N2-1 canal from K0+000 to K0+585; N2-3 canal from K0+000 to K0+443; N2-2 canal from K0+000 to K0+778 and VC1 canal from K0+000 to K0+402	+ Name: joint venture Nhon Loc General Construction Co., Ltd and 47 Construction JSC (JV: Cty TNHH XDTH Nhon Loc và Cty CP xay dung 47) + Address: " No. 84, Nguyen Thi Minh Khai street, Phu My town, Binh Dinh province" and "No. 08, Bien Cuong street, Quy Nhon city, Binh Dinh province"	9/12/2016	10/2/2017	Mr Nguyen Tan Vinh	Mr Le Thanh Truc / Thien An Limited Join Stock Company	Mr Le Tien Hao	<ul style="list-style-type: none"> CEMP was prepared by contractors and approved PPMU The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail with explanation & reflection on the issues arise, date, time and location Completed : 100%
18	Binh Dinh	BD1 Upgrading Nui Mot Reservoir's canal system 44/2016/BQL-HDXL dated: 08/12/2016 completion date: 20/12/2018	Upgrading Nui Mot Reservoir's canal system :Lot 01: Upgrading N4 canal and facilities from K0+000 to K8+223 and N4A canal from K1+258 to K5+875	+ Name: joint venture Hoang Phat Invesment Construction and Trading JSC and Tan Thanh Construction Co.,Ltd + Address: " TT31 building, CT,B Apartment, Vinaconex 9 urban area, Km3 Lenin Street, Nghi Phu commune, Vinh city, Nghe An province" and "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district , Binh Dinh Province"	8/12/2016	13/3/2017	Mr Nguyen Tan Vinh	Ms Nguyen Thi Thu Trang/ //Institute of Central Region's Training & Applied Science	Mr Chu Van Tien & Mr Dinh Quang My	<ul style="list-style-type: none"> CEMP was prepared by contractors and approved PPMU The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is rather good quality & more detail assessed with explanation & reflection on the issues arise, date, time and location Completed: 100%
19	Binh Dinh	BD1 Upgrading	Upgrading Nui Mot	+ Name: joint venture: Viet Nam	8/12/2016	13/3/2017	Mr	Mr Le Thanh	Mr Hoang	<ul style="list-style-type: none"> CEMP was prepared

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		Nui Mot Reservoir's canal system 43/2016/BQL- HDXL dated: 08/12/2016 completion date: 20/12/2018	Reservoir's canal system: Lot 02: Upgrading N6 canal and facilities from K0+000 to K5+151 and from K5+425 to K6+407; and N8 canal from K1+51 to K6+245	Agricultural of construction joint stock corporation and Yen Tung Investment Construction and Trading Service Co.Ltd (JV: TCT XD Nong nghiep Viet Nam – CTCP & Cty TNHH Dau tu XD& TMDV Yen Tung) + Address: " No. 68, Truong Trinh street, Phuong Mai ward, Dong Da district, Ha Noi city" and "Phung Son hamlet, Phuoc Son ward, Tuy Phuoc District, Binh Dinh province"			Nguyen Tan Vinh	Truc / Thien An Limited Join Stock Company	Van Lam & Mr Pham Minh Nghia	by contractors and approved PPMU ▪ The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is rather good quality & more detail with explanation & reflection on the issues arise, date, time and location ▪ Completed: 100%
20	Binh Dinh	BD4 Upgrading My Thuan Reservoir 48/2016/BQL- HDXL dated: 15/12/2016 completion date: 20/12/2018	Upgrading My Thuan Reservoir Lot 1: Upgrading head works: earth dam, spillway and intakes	+ Name: joint venture of Tan Thanh Construction Company Limited and Hong Chau construction private business + Address: "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district , Binh Dinh Province" and "No 04, Ngo Quyen street, Phu Cat Town, Tuy Phuoc District, Binh Dinh Province"	15/12/201 6	25/12/2016	Mr Nguyen Tan Vinh	Ms Ho Thi Thanh Tung / Irrigation- Hydropower Construction Consultant Join Stock Company	Mr Dang Thanh Tin	▪ CEMP was prepared by contractors and approved PPMU ▪ Completed: 100%
21	Binh Dinh	BD4 Upgrading My Thuan Reservoir 49/2016/BQL- HDXL dated: 15/12/2016 completion date: 20/12/2018	Upgrading My Thuan Reservoir Lot 2: Lining the weir, weir operational access road; Lining canal and facilities in the weir's downstream; the weir's right canal; the weir's left canal; N2 canal	+ Name: Phuong Dong Co., Ltd + Address: " No. 65, Phan Dinh Phung street, Pquy Nhon city, Binh Dinh province"	15/12/201 6	25/12/2016	Mr Nguyen Tan Vinh	Ms Ho Thi Thanh Tung / Irrigation- Hydropower Construction Consultant Join Stock Company	Mr Nguyen Phuoc Nuong	▪ CEMP was prepared by contractors and approved PPMU ▪ Completed: 100%
	Phu Yen									
22	Phu Yen	PY02 Upgrading road and sluice of An Cu - An Hiep - An Hoa 10/HDXL/PY-02 dated:12/9/2016	Upgrading road and sluice of An Cu - An Hiep - An Hoa	+ Name: Thanh Trung Corporation Co., JSC + Address: "No. 490, Le Loi Street, Dong Huong Ward, Thanh Hoa city, Thanh Hoa Province"	12/9/2016	7/10/2016	Mr Tran Con Son	Mr Truong Minh Tan / Join Venture of Phu Yen and Thong Nhat Construction &	Ms Mai Thi Phuong /	▪ On going ▪ CEMP was prepared by contractors and approved PPMU ▪ The weekly, monthly , quarterly

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		completion date: 5/2018						investment Consultant Join Stock Company		environmental safeguard monitoring reports by contractors, CSCs, PPMU is rather good quality & more detail assessed with explanation & reflection on the issues arise, date Completed : 100%
23	Phu yen	PY04 Upgrading irrigated canal of Dong Tron reservoir's irrigation system 08/HDXL/PY-04 dated: 16/12/2016 completion date: 20/10/2018	Upgrading irrigated canal of Dong Tron reservoir's irrigation system	+ Name: Dong Son One Member Co., Ltd (Cty TNHH MTV Dong Son) + Address: " No. 96, Au Co street, Pleiku city, Gia Lai province"	16/12/201 6	16/2/2017	Mr Tran Con Son	Mr Ho Van Thong/ Join venture of Thong Nhat Construction Consultant Join Stock Company & Thien Y Design Consultant Limited stock Company	Mr Hoang Ngoc Thach	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation & reflection on the issues arise, date, time and location Completed : 75%
24	Phu yen	PY3 Upgrading Suoi Cau weir and access road Subproject 08/HDXL/PY-03 dated: 20/12/2016 completion date: 20/06/2018	Upgrading Suoi Cau weir and access road Subproject	+ Name: joint venture of Tuy Phuoc, Binh Dinh Electric Construction JSC and 47 Construction JSC + Address: "No 02, Tran Phu Street, Tuy Phuoc Town, Tuy Phuoc district , Binh Dinh Province" and "No 08, Bien Cuong street, Ngo May District, Quy Nhon City, Binh Dinh Province"	20/12/201 6	16/2/2017	Mr Tran Con Son	Mr Do Xuan Tinh/ Join venture of Central Region's Training - Applied Science and Phu Yen Development Investment Join Stock Company	Mr Ngo Tuan Hung	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is improved Completed : 100%
	Phu yen	PY1 Consolidate main canal and branch canals of Dong Cam	Consolidate main canal and branch canals of Dong Cam irrigation scheme	+ Name: joint venture of Trung Anh construction JSC and 522 Co.,Ltd and Tay Do Construction And Investment	01/03/201 7	14/3/2017	Mr Tran Con Son	Mr Ho Dinh Thu / Join venture of Central Region's	Mr Nguyen Dinh Be	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		irrigation system 10/HDXL/LÔ1- PY-01 dated: 01/03/2017 completion date: 01/2019	Lot 1: Consolidate the southern main canal and branch canals of Dong Cam irrigation scheme	JSC (JV: Cong ty CP Xay dung Trung Anh; cong ty TNHH 522; cong ty CP Dau tu va Xay dung cong trinh Tay Do) + Address: "Km 2, V.I.Lê Nin street, Vinh city, Nghe An province" and "No.75, Nguyen Tat Thanh street, Tuy Hoa city, Phu Yen province" and "No.3/100/34, Doi Can street, Ba Dinh district, Ha Noi city"				Training - Applied Science and Phu Yen Development Investment Join Stock Company		<ul style="list-style-type: none"> The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation & reflection on the issues arise, date, time and location Completed : 93%
	Phú Yên	PY1 Consolidate main canal and branch canals of Dong Cam irrigation system 11/HDXL/LÔ1- PY-01 dated: 28/02/2017 completion date: 01/2019	Consolidate main canal and branch canals of Dong Cam irrigation scheme Lot 2: Consolidate the northern main canal and branch canals of Dong Cam irrigation scheme	+ Name: Minh Quang Co.,Ltd (Công ty TNHH Minh Quang) + Address: " 1 Quarter, Cau Giat Town , Quynh Luu District, Nghe An Province"	28/02/2017	14/3/2017	Mr Tran Con Son	Mr Ho Dinh Thu / Join venture of Central Region's Training - Applied Science and Phu Yen Development Investment Join Stock Company	Mr Le Quang Sang	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is rather good quality & more detail with explanation & reflection on the issues arise, date, time and location Completed : 73%
	Hue									

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
25	Hue	TTH1 Upgrading Dai Giang River Dike system HD/TDA01BT-XL dated: 10/12/2016 completion date: 24/8/2018	Upgrading Dai Giang River Dike system Lot 1: Civil construction and insurance of the left embankment	+ Name: VN1 Industrial Group JSC + Address: "No.56B, Nguyen Dong Chi street, Nam Hong ward, Hong Linh town, Ha Tinh city"	10/12/201 6	13/02/2017	Mr Diep Minh Phong	Mr Tran Hien/ Consultant & water resources technical development join stock Company	Mr Phan Thanh Hoan	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is rather good quality & more detail with explanation & reflection on the issues arise, date, time and location Completed : 60%
	Hue	TTH1 Upgrading Dai Giang River Dike system 01HĐ/TDA01BH- XL dated: 15/4/2017 completion date: 01/2019	Upgrading Dai Giang River Dike system Lot 2: Civil construction and insurance of the right embankment	+ Name: JV of 471 JSC and Prime Trung Tin JSC (JV: Cty CP 471 & Cty CP Prime Trung Tin) + Address: No.9, Tran Nhat Duat street, Vinh city, Nghe An province" & "Floor 5, HH3 build, Me Tri street, My Dinh 1 ward, Nam Tu Liem district, Ha Noi city"	15/04/201 6	24/04/2017	Mr Diep Minh Phong	Mr Luong Tran Nhat Chinh / Thua Thien-Hue Construction Consultant join stock Company	Mr Pham Trung Quan	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is good quality & more detail assessed with explanation & reflection on the issues arise, date, time and location Completed : 99%
	Hue	TTH2 Upgrading Dong Tay Hoi Tom Dike combining with on-farm road 02HĐ/TDA02-XL dated: 28/3/2017 completion date: 07/2018	Upgrading Dong Tay Hoi Tom Dike combining with on- farm road Civil construction and insurance	+ Name: Thanh Hoa Rural Development And Agriculture Construction JSC (TCT xây dựng Nông nghiệp và Phát triển nông thôn Thanh Hoa - công ty cổ phần) + Address: " No. 303, Ba Trieu street, Ham Rong ward, Thanh	28/03/201 7	5/4/2017	Mr Diep Minh Phong	Ms Truong Nguyen Quynh Tram/ Join Venture of Development Investement & development infrastructure and Consultant	Mr Le Gia Loi	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly, quarterly environmental safeguard monitoring reports by

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
				Hoa city, Thanh Hoa province"				Join Stock Company and Construction procurement consultant limited stock Company		contractors, CSCs, PPMU is good quality & more detail assessed with explanation & reflection on the issues arise, date, time and location ▪ Completed : 100%
	Hue	TTH3 Upgrading road combining with flood protection dike Pho Lai - Thanh Can - Nam Duong - Co Thap 03HĐ/TDA03-XL dated: 15/04/2017 completion date: 01/2019	Upgrading road combining with flood protection dike of Pho Lai - Thanh Cam - Nam Duong - Co Phap: Civil construction and insurance	+ Name: JV of Hai Thanh Construction and Trading Co., Ltd; Hoang Ngoc Co., Ltd and Hung Hau Co., Ltd (JV: Cty TNHH Xay dung va Thuong mai Hai Thanh & Cty TNHH Hoang Ngoc & Cty TNHH Hung Hau) + Address: "No.04, Nguyen Du street, Dong My ward, Dong Hoi city, Quang Binh province" & "No.133, Bui Thi Xuan street, Hue city, Thua Thien Hue province" & "Gia An Hamlet, Sia town, Quang Dien district, Thua Thien Hue province"	15/04/2017	9/5/2017	Mr Diep Minh Phong	Mr Tran Vu / No 1 Thua Thien- Hue Construction Consultant join stock Company	Mr Tran Van Dong	<ul style="list-style-type: none"> ▪ On going ▪ CEMP was prepared by contractors and approved PPMU ▪ The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is should be improved ▪ Contractor need to implement of CEMP on health & safeties ▪ Completed : 75%
	Ha Tinh									
26	Ha Tinh	HT1 Upgrading canal system of Rac River irrigation 01/2016/HDXD dated: 15/11/2016 completion date: 6/2018	Upgrading canal system of Rac River irrigation: Repairing and upgrading N2 canal and facilities on canal, section K0-K13+066	+ Name:joint venture Tung Truong Son JSC; Thanh Hoa Rural Development And Agriculture Construction JSC; Thang Long construction JSC and Hoang Nguyen Trading and Construction JSC + Address: " No. 21, Ton That Thuyet street, Ha Huy Tap ward, Vinh city, Nghe An province" and "No. 303, Ba Trieu street, Ham Rong ward, Thanh Hoa city, Thanh Hoa province" and "No. 207, Tran Phu street, Tran Phu ward, Ha Tinh city, Ha Tinh Province" and " No. 66, lane 3, Mai Hac De street, Quan Bau	15/11/2016	23/11/2016	Mr Nguyen Hong Son	Mr Nguyen Van Tan/ Vinaxim Construction Investment & Consultant Join Stock Company	Mr Nguyen Van Su	<ul style="list-style-type: none"> ▪ Completed

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
				ward, Vinh city, Nghe An province"						
27	Ha Tinh	HT4 Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District: 02A/2016/HDXD dated: 30/11/2016 completion date: 6/2018	Upgrading irrigation system, rural road and market in 5 flooded communes of Duc Tho District: Lot 1 :Repairing and upgrading irrigation and transportation works in Duc Quang, Duc La, Duc Thinh, Yen Ho communes – Duc Tho district	+ Name: Thanh Hoa Rural Development And Agriculture Construction JSC + Address: " No. 303, Ba Trieu street, Ham Rong ward, Thanh Hoa city, Thanh Hoa province"	30/11/2016	2/12/2016	Mr Nguyen Hong Son	Mr Vo Xuan Mai/ Join Venture of 468 Construction Consultant Join Stock Company and Infrastructure Construction Consultant Join Stock Company	Mr Le Xuan Su	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The environmental safeguard monitoring report by SCS is improved <ul style="list-style-type: none"> Completed : 98%
	Ha Tinh	HT4 Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District: 02B/2016/HDXD dated: 02/11/2016 completion date: 12/2017	Upgrading irrigation system, rural road and market in 5 flooded communes of Duc Tho District: Lot 2 :Upgrading Hom market, pumping station, and facilities on canal of Thai Yen commune	+ Name: Joint venture: Lam Hong Travel and Construction JSC and Khanh Mon Construction Co., Ltd (JV: Cty CP XD & DL Lam Hong; Cty TNHH XD Khanh Mon) + Address: " living quarter 09, Thach Ha Town, Thach Ha district, Ha Tinh Province" and "Hamlet 1, Thach Mon commune, Ha Tinh city, Ha Tinh Province"	2/11/2016	2/12/2016	Mr Nguyen Hong Son	Mr Dao Van Thang/ Trung Dung Investment Consultant Join Stock Company	Mr Nguyen Cong Phuc	<ul style="list-style-type: none"> CEMP was prepared by contractors and approved PPMU The environmental safeguard monitoring report by SCS is improved Completed : 100%
29	Ha Tinh	HT3 Upgrading Ho Dam and Tiem River canal system: Repairing and upgrading Ho dam and Tiem river canal system 04/2016/HDXD dated: 07/11/2016 completion date: 6/2018	Upgrading Ho Dam and Tiem River canal system: Repairing and upgrading Ho dam and Tiem river canal system	+ Name: Joint venture Viet Nam Agricultural of construction joint stock corporation and Ha Tinh Construction JSC No. 3 and Nghe An III Irrigation construction JSC + Address: " No. 68, Truong Trinh street, Phuong Mai ward, Dong Da district, Ha Noi city" and "BT 77, Song Da new area, Tran Phu ward, Ha Tinh city, Ha Tinh Province" and "No. 1, lane 64, Le Hoan street, Yen Vinh living quarter, Hung Phuc ward, Vinh city, Nghe An Province"	7/11/2016	24/11/2016	Mr Nguyen Hong Son	Mr Duong Doan/ Infrastructure Construction Consultant Join Stock Company	Mr Le Dinh Ngoc	<ul style="list-style-type: none"> Completed
30	Ha Tinh	HT5 Upgrading	Upgrading irrigation	+ Name: Joint venture 412	8/11/2016	25/11/2016	Mr	Mr Nguyen	Mr Nguyen	

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		irrigation system of 3 Communes, Thach Ha District: Repairing and upgrading the irrigation system of 3 south-western communes of Thach Ha district 05/2016/HDXD dated: 08/11/2016 completion date: 6/2018	system of 3 Communes, Thach Ha District: Repairing and upgrading the irrigation system of 3 south-western communes of Thach Ha district	construction JSC and Construction and industrial production JSC No. 5 and Nhat Thai General Trading And Construction Co., Ltd (JV: Cty CP XD cong trinh 412 và Cty CP xay lap & san xuat cong nghiep so 5 và Cty TNHH XD & TM tong hop Nhat Thai) + Address: " No. 254, Ha Huy Tap street, Ha Tinh city, Ha Tinh province" and "No. 522, Nguyen Cong Tru street, Ha Tinh city, Ha Tinh Province" and "No. 02, lane 03, Xuan Dieu street, Ha Tinh city, Ha Tinh Province"			Nguyen Hong Son	Ngoc Thach/ Join Venture of Civil work & foundation handling join stock company and DELTA design investigation join stock company stock	Tien Lech	<ul style="list-style-type: none"> Completed
31	Ha Tinh	HT2 Upgrading irrigation/drainage and rural road system in flooding-prone area of Loc Ha District: 05/2016/HDXD dated: 07/11/2016 completion date: 4/2018	Upgrading irrigation/drainage and rural road system in flooding-prone area of Loc Ha District:	+ Name: Joint venture Xuan Khiem Group JSC and Manh Linh Co., Ltd (JV: Cty CP tap doan Xuan Khiem & Cty TNHH Manh Linh) + Address: " Khanh Tan street, Ninh Khanh ward, Ninh Binh city, Ninh Binh province" and "No. 112, Hai Thuong Lan Ong sreet, Phuc Thanh ward, Ninh Binh city, Ninh Binh Province"	7/11/2016	1/2017	Mr Nguyen Hong Son	Mr Bui Xuan Dung/ Vinaxim Construction Investment & Consultant Join Stock Company	Mr Nguyen Van Thong	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The environmental safeguard monitoring report by SCS is should be improved Contractor need to implement of CEMP on health & safeties Completed : 82%
Additional Works										
	Ha Tinh	Upgrading canal system of Rac: Repairing, upgrading Song Tri canal and branch canals of Rac river N2 canal	Not yet Contract Signing	+ Name: Joint venture Hoang Phat Trading and Construction Investment Joint Stock Company, Thanh Sen Construction and Consultancy Joint Stock Company and Hoang Nguyen Construction and Trading Company Limited. + Address: 126, Nguyen Sy Sach, street, Vinh City, Nghe An Province	28/12/2018					
		Upgrading irrigation system, rural road and	Not yet Contract Signing							

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		market in 5 flooded communes of Duc Tho District: Repairing, upgrading and constructing irrigation, drainage canals, pumping station and flood roads								
	Thua Thien- Hue	Upgrading Dai Giang River Dike system Subproject: Civil construction and insurance of the sluice of Quan.	Civil construction and insurance of the sluice of Quan	+Name: Thanh Hoa Rural Development And Agriculture Construction JSC & Mechanical equipments and Technology Co Ltd, Long Phung Construction Service Co, Ltd + Address: " No. 303, Ba Trieu street, Ham Rong ward, Thanh Hoa city, Thanh Hoa province"	15/9/2018	15/9/2018	Mr Diep Minh Phong	Ms Truong Nguyen Quynh Tram/ Join Venture of Development Investement & development infrastructure and Consultant Join Stock Company and Construction procurement consultant limited stock Company	Mr Pham Trung Quan	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , environmental safeguard monitoring reports by contractors, CSCs is good quality & more detail with explanation & reflection on the issues arise, date, time and location Completed : 20%
	Binh Dinh	Upgrading Van Phong Canal System-N24 Canal Subproject : Calamity Remedies of Van Phong Irrigation Scheme	Upgrading Van Phong Canal System	+ Name: joint venture of Minh Hieu Construction Company Limited, Tan Thanh - Hoang Phat construction investment join stock Company , Dinh Phat Construction Limited Company + Address: "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district , Binh Dinh Province" and "No 505, Tran Phu street ,Binh Dinh ward, An Nhon Town, Binh Dinh Province"	28/5/2018	1/6/2018	Mr Nguyen Tan Vinh	<ul style="list-style-type: none"> Ms Nguyen Thi Thu Trang/ Institute of Central Region's Trainning & Applied Science Mr Le Thanh Truc / Thien An Limited Join Stock Company 	Mr Lam Huu Tuan	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly ,quarterly environmental safeguard monitoring reports by contractors, CSCs is good quality & more detail with explanation & reflection on the issues arise, date, time and location Completed : 60%

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
	Phu Yen	Upgrading Tam Giang irrigation system	FS still not completed							
	Ninh Thuan	An Hai Commune Irrigation System	Lot 1: Constructing Tuan Tu spillway, basin canal, pump station grade 1; market; Electricity system	+Name: joint venture of Truong Long Assemble Construction Trade Co, Ltd & An Nguyen Construction Co, Ltd & Phu Nghia Co,Ltd & Thang Long Construction Co, Ltd and Gia Viet Joint Stock Company + Address: "No 84B, 21/8 Street, Phu Ha Ward, Phan Rang – Thap Cham City, Ninh Thuan Province" and "No 57, Ngo Gia Tu Street, Thanh Son Ward, Phan Rang – Thap Cham City, Ninh Thuan Province"		11/10/2018	Mr Pham Ba Luat	Mr Nguyen Anh Tuan Joimn Venture of Hung Thinh Construction Consultant Co, Ltd; Chung Thien My Trade and Construction Co,Llt and Dang Thinh Construction Design Consultant Co,Ltd	Mr Doan Thanh Trung	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , environmental safeguard monitoring reports by contractors, CSCs is rather good quality & more detail with explanation & reflection on the issues arise, date, time and location Completed : 10%
			Lot 2 : Construction of 15 water tanks with 500 m ³ , water pile system , Pumping Stations - Grade 2	+ Name : Join Venture of Thang Long-Ha Huy-Son Long Thuan-Truong Thinh Phat -Dong A + Address : No 107 Tran Quang Dieu Street, Thanh Son Ward, Thap Cham City, Ninh Thuan Province		11/10/2018			Mr Pham Thanh Hoa Mr Tran Thanh Son	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , environmental safeguard monitoring reports by contractors, CSCs is rather good quality & more detail with explanation & reflection on the issues arise, date, time and location Heavy rain occurred in November 2018 affected the subproject progress Completed : 20%
		Improving and upgrading Cham canal and rural road cum management of	Improving and upgrading Cham canal and rural road cum management of South primary canal:	+ Name : Join Venture of No 10 Agricultural Company- Truong Thinh Phat Company + Address : No 152 Hong Bang Road , Vinh City		21/12/2018			Mr Dang Minh Hai Mr Pham Thanh Hoa	<ul style="list-style-type: none"> CEMP was prepared by contractors and approved PPMU Completed : 0 %

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commence ment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		South primary canal	Constructing canal and facilities of Cham secondary canal system Not yet Contract Signing							
	Binh Thuan	Upgrading North primary canal of Ba Bau irrigation system Subproject: Constructing canals, facilities and equipment from K0+025.7 to K6+880.04	Constructing canals, facilities and equipment from K0+025.7 to K6+880.04	+ Name : Viet Nam Agricultural of Construction Joint Stock Corporation (VINACCO) + Address : No 68 Truong Chinh Road , Dong Da District, Hanoi City	14/9/2018	1/10/2018	Mr Nguyen Hong Truong	Mr Nguyen Thai Vu	Mr Tran Dinh Lam	<ul style="list-style-type: none"> On going CEMP was prepared by contractors and approved PPMU The weekly, monthly , environmental safeguard monitoring reports by contractors, CSCs is rather good quality & submitted to PPMU Heavy rain occurred in November 2018 affected the subproject progress <p>Completed : 18.0 %</p>
		Upgrading primary canal of Quao River Subproject: Upgrading, rehabilitating 05 primary canals of N03, N9, N13, N19 and N27	Upgrading, rehabilitating 05 primary canals of N03, N9, N13, N19 and N27	+ Name : Join Ventute Investement Development and Construction Join Stoct Company – Minh Dung Construction Join Stock Company + Address : Dai Loc Village, Yen Chinh Commune, Y Yen District , Nam Dinh City	18/12/2018	21/12/2018	Mr Nguyen Hong Truong	Mr Nguyen Hong Hiep	Mr Nguyen Quoc Trung	<ul style="list-style-type: none"> CEMP was prepared by contractors and approved PPMU <p>Completed : 0%</p>

2. Environmental Reporting System

Table 4: Environmental Reporting System of the Project

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom	Status
Construction	Site Environmental Performance Report indicating compliance with Mitigation Measures	Weekly	Construction Contractor (CC)	CSC	Submitted in every week
	Site Environmental Performance Report indicating compliance with Site EMP and monitoring results	Monthly	Construction supervision consultant (CSC)	PPMU	Submitted in early of next month
	EMP Compliance Report indicating compliance with subproject EMP and monitoring results	Quarterly	PPMU	CPMU	Submitted in September & December 2018
	EMP Compliance Report indicating compliance with subproject EMP and monitoring results	Bi-annually or twice during construction depending on construction duration	CPMU	ADB	The fourth second Semi-annual EMR(July - December 2018) submitted in January 2019
	Subproject Environmental Report indicating overall subproject environmental performance and EMP compliance	At completion of subproject	CPMU	ADB	Included in Quarterly Report
Operation	EMP Compliance Report: Operation indicating compliance with subproject EMP commitments during operation	6 monthly for first two years of operation. Ongoing frequency to be determined based on review after 2 years.	Operating Company	ADB	Not yet completed all subprojects

B. Capacity Building during report period

12. The relevant stakeholders undertook the EMP implementation as their responsibilities. CPMU, PPMUs, CSCs and CCs appointed officers/staffs in charge of environmental management. Thus, to ensure that EMP is implemented in compliance with sponsor policies and Vietnamese legislation, these officers/ staffs were guided/ trained on EMP implementation capacity building. Training on EMP implementation were held for different groups with different requirements

- PPMUs and CSCs: The staffs that are in charge of environment are trained (at least once in the first 3 months of the project on monitoring and preparing environmental reports).
- Construction contractors: are trained (immediately after contract signing) on implementing mitigation measures and preparing reports.

13. Up to the end of June 2017, 6 short training courses on EMP implementation were held in Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan, Ha Tinh, Thua Thien- Hue Provinces . List of training courses are described in Semi-annual Environmental Monitoring Report January - June 2017 . There is no official training course carried out during the reporting period

C. Environmental Performances

1. *Monitoring parameters/indicators and methods based on the monitoring plan/program previously agreed upon with ADB*

14. Inspection of environmental performance is undertaken by construction supervision consultants alongside other quality control activities, and is a continuous activity conducted by field inspection teams. Monitoring and reporting related to environmental performance is done using a checklist and reporting format, which is completed quarterly, with results forwarded to PPMUs, who then submit the results to the CPMU. Subproject environmental performance is measured against 50 variables and summarized into 7 performance indicators. Of these seven indicators, two are based on quarterly performance, whereas the remaining five are derived on a one-time-only basis, at the beginning and end of construction activity (see Annex 1). Since the results contained in quarterly reports are cumulative, data for the semi-annual report are obtained from the most recent quarter.

15. The averages of the indicators for all active subproject packages within the province for the semi-annual reporting period are shown in Table 2 (Performance Indicator Results by Province). Instructions for filling out the table can be found in the Annex 2: Reporting Procedures and Templates

Table 5: Performance Indicator Results by Province

Unit %

No	<u>Province</u>		<u>Performance Indicator</u>							Overall Performance To-Date (Average)
	Name	No. of Active Contracts	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	
			Design and Preparations	Worker Provisions	Biodiversity	Public Consultation/ Grievance	Community Values / Safety	Hydrology/ Water Pollution	Project Completion	
1	Ha Tinh	1	100	85.00	100	100	80	100	Not yet completed all	93.00
2	TT Hue	4	100	83.00	100	100	95	95	Not yet completed all	94.60
3	Binh Dinh	1	100	95.00	100	100	95	97.00	Not yet completed all	97.40
4	Phu Yen	4	95.00	87.50	80	100	95	93.50	Not yet completed all	91.20
5	Ninh Thuan	1	100	95	100	100	95	100	Not yet completed all	98.00
6	Binh Thuan	2	100	99.60	100	100	100	100	Not yet completed all	99.92
	Average Value	13	99.17	90.85	96.67	100	93.33	97.58		2

Remarks:

- *Performance Indicator 1: Design and Preparations:* to be completed in two parts (see checklist) at the time the design is being finalized and project tendered (by the PPMU), and at the time construction begins (by the Construction Supervision Consultant (CSC) in conjunction with the PPMU).
- *Performance Indicator 2: Worker Provisions:* to be completed at the time construction gets underway by the CSC.
- *Performance Indicator 3: Biodiversity:* to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.
- *Performance Indicator 4: Community Based Monitoring:* to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.
- *Performance Indicator 5: Community Values and Safety:* results entered into this section of the checklist should be based on visual monitoring of affected areas and discussions with community members and affected people.
- *Performance Indicator 6: Hydrology/Water Pollution:* results entered into this section of the checklist should be based on visual monitoring of the construction area and surrounding water bodies (rivers, streams, canals and lakes).
- *Performance Indicator 7: Project Completion* section of the checklist should be filled out when construction is over. The results are based on field monitoring of the site and surrounding community areas. Issues should be resolved before final payment is made to the contractor.

16. Performance Indicator Results is expressed by percentage_(%) & based on the average value, with “good” > 75%; “average” 25-75%; poor < 25%.)

Comments:

17. Most of Performance indicators of 13 packages of 06 Provinces (Ha Tinh, Hue, Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan) reach 83.0 -100 % with average value is 90.85-100%. It means the contractors mostly complied with proposed mitigation measures were described Environmental Performance Specifications that Standardized mitigation measures were distilled from the IEE and uEMP documentation. Environmental performance indicator results by province is evaluated as bellow:

- *Design & Preparation's indicator:* all packages of 6 project provinces (Ha Tinh, Hue, Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan) reached 95.00 -100 %. Performance Indicator Results by Province shows that subproject design meet applicable engineering safety and public health standards, Site EMP is prepared by contractors, use of land for worker camps and construction yards are agreed with owner, spoil/ waste material disposal sites have been selected in consultation with local authorities, and contractors has official permits on record for quarry sites and borrow pits, only one subproject in Phu Yen (An Cu-An Hiep-An Hoa Subproject) need to obtain official permits on record for quarry sites

- *Worker provision's indicator:* all packages of 6 project provinces reached 83.3 – 99.6 %. it shows that Contractors implemented a safety and accident prevention program involving provision, training and use of safety equipment; minimum skills qualifications for operators and drivers, camps equipped with adequate water supply, sanitary toilets, washing facilities and facilities for waste collection. However, most of packages of subprojects providing safety clothes & helmet to workers not fully; first aid kits not available to workers at the site along with instructions for use, such as workers working in Dong Tay Hoi Tom Dike subproject, Suoi Cau Weir subproject did not providing adequate protective personal equipment at the sites
- *Biodiversity indicator:* All packages in Ha Tinh, Ninh Thuan, Binh Thuan, Binh Dinh, Thua Thien Hue, Phu Yen Province reached 80% - 100%. It show that project avoid encroaching on natural forests or wetlands , worker camps located outside of forested areas and has the contractor restricted access of workers to forests, fishing and hunting. However, storage of empty oil drums closed to the stream/pond by some subprojects may effected on both surface water and ground water' quality (Dai Giang subproject in Hue and Suoi Cau subproject in Phu Yen)
- *Public Consultation/Grievance's indicator:* All packages of Ha Tinh, Thua Thien Hue, Binh Dinh, Ninh Thuan, Binh Thuan, Phu Yen Provinces reached 100%. It indicates that public consultation regarding construction, environmental impact, and the community complaints system are implemented by the contractors.
- *Community Value/Safety's indicator:* All packages of 6 project provinces (Ha Tinh, Hue, Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan) reached 80.00 - 100% %. It indicates that vehicles transporting materials for construction are covered when traveling through community areas or along roadways in use by the public and operated within the legal speed limits in populated areas; and removed excess debris during construction and after completion of the item of work; installed signs and in the vicinity of works on public roads, and restrict access to the construction site to the public. However, contractors of all 6 provinces were not responsible for regular spraying of roadway surfaces and sites under construction in areas accessed by the public, and at Khe Hao Dam, Loc Ha subproject, at the construction site near the road in Cat Hiep Commune, Phu Cat District of Calamity Remedies of Van Phong Irrigation System Subproject , contractors still not install warning board for limiting speed and load capacity for transport
- *Hydrology/Water Pollution's indicator:* All packages of 6 project provinces (Ha Tinh, Hue, Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan) reached 93.50 - 100%. It shows that construction camps maintained regularly in a clean and hygienic condition, avoided discharge of wastewater into water bodies used for water supply; maintained existing drainage patterns during construction as described in Hydrology / Water Pollution's indicator. However, some packages storing oil, fuel in inappropriate storage such as Dong Tron subproject in Ha Tinh Province and existing drainage canal of the road in Binh Loc Commune, Loc Ha District need to improve for preventing water runoff affect Binh An Thinh Secondary School

- *Project Completion's indicator:* this indicator is not assessed for all subprojects in 6 Provinces due to these packages not yet completed all

2. Monitoring results compared against previously established benchmarks and compliance status

Performance Indicator Results for the IRDSPCP – Additional financing

18. The measure of environmental performance across all provinces in Table 2 reflects the ability of the CPMU to mitigate environmental effects on the IRDSPCP— Additional financing. The CPMU has achieved for the current reporting period a score of **95.70 %** across all indicators and provinces, as shown in Table 3 (Performance Indicator Results for the IRDSPCP – Additional financing).

Table 6: Performance Indicator Results for the IRDSPCP – Additional financing

<u>Performance Indicator</u>	<u>Score (all provinces)</u>
1. Design and Preparations	99.17
2. Worker Provisions	90.85
3. Biodiversity	96.67
4. Public Consultation/Grievance	100
5. Community Values / Safety	93.33
6. Hydrology/Water Pollution	97.58
7. Project Completion	Not yet completed all
Average:	95.70

19. The overall environmental performance on IRDSPCP— Additional financing subprojects currently underway is **good**.

IV. KEY ENVIRONMENTAL ISSUES

A. Following up Previous Corrective Action Plan

Table 7: Environmental Action Plan (July-December 2018)

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring	Actions taken to date
GENERAL ISSUES				
1. Environmental assessment for new sub-projects				
a. LIC environment consultant on prepare IEE of Tam Giang Irrigation subproject, Phu Yen b. LIC environment consultant to update EMP for subprojects with additional construction works (extension using saving funds) - Quan Sluice (TTH), Quao River (BT), Rac River (HT)	31 July 2018	LIC Environment Consultant	CPMU/ADB	a. Tam Giang is still not prepared FS by Phu Yen PPMU b. Updated EMP for <ul style="list-style-type: none"> ▪ uEMP Ba Bau approved by ADB on 18 Apr 2018 ▪ uEMP Song Quao approved by ADB on 23 July 2018 ▪ uEMP Quan Sluice approved by ADB on 4 July 2018 ▪ uEMP Van Phong approved by ADB on 5 June ▪ uEMP Cham Canal, approved by ADB on 30 November 2018 ▪ uEMP Song Rac : approved by ADB on 6 Jan 2019
	30 June 2018	LIC Environment Consultant	CPMU/ADB	

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring	Actions taken to date
				<ul style="list-style-type: none"> ▪ uEMP Duc Tho : (Cost <3 millions USD) submitted to CPMU for approval on 27 December 2018 & approved by CPMU on 14 January 2019 by CPMU
2. Semiannual environment monitoring report				
a. CPMU, with the support from LIC Environment Consultant to submit environment semi-annual monitoring report, January - June 2018 to ADB	31 July 2018	CPMU	ADB	Semi EMR (January-June 2018) submitted to ADB in July & uploaded on ADB Website
EMP ISSUES AT THE CONSTRUCTION WORKS				
1. EMP Inspection by CSC				
a. CSCs with the support from environment consultant, to improve supervision of contractor's EMP implementation: <ul style="list-style-type: none"> • Providing detail status of contractor's EMP implementation and requested action with the timeline for implementation in construction daily records • Tracking the requested action implementation 	Continuous from January 2018	CSCs/Environment Consultant	PPMUs/ APMB	<ul style="list-style-type: none"> ▪ LIC's Environmental consultant supported CSCs to improve supervision of contractor's EMP implementation ▪ CSCs provided status of contractor's EMP implementation and requested action with the timeline for implementation in construction daily records but not detail status ▪ CSCs did not track

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring	Actions taken to date
				the requested action implementation ▪
2. Pollution control and improvement of environmental sanitation				
a. Phu Yen PPMU coordinate with contractor and local authority of Tan My Commune to improve environmental sanitation and pollution control in the canal and on road along the village as dust generation from the road shoulders along the canal, Lot 1, Southern Canal, Dong Cam and water pollution from domestic and construction waste disposal in the canal.	31 August 2018	Phu Yen PPMU/contractor	CPMU/ADB	Completed in August 2018 Phu Yen PPMU coordinated with contractor and local authority of Tan My Commune to improve environmental sanitation and pollution control in the canal and on road along the village of Lot 1 -Dong Cam subproject
3. Improvement design to avoid local flooding due to limiting drainage capacity				
a. Thua Thien -Hue PPMU to coordinate with the contractor, Design Consultant and Community Supervision Board to assess the design in order to avoid risk of local flooding and limiting drainage capacity of the canal, Lot 1, Dai Giang Dyke	July 2018	Thua Thien Hue PPMU/DARD	CPMU/ADB	Completed September, 2018 Thua Thien-Hue PPMU coordinated with the Contractor, Design Consultant and CSB to assess the design in order to avoid risk of local flooding and limiting drainage capacity of the canal , Lot 1 , Dai Giang Dyke in Sep 2018

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring	Actions taken to date
4. Improvement of work plan to avoid dyke construction in the flooding season				
a. Thua Thien-Hue PMU to discuss with the contractor for better planning, to speeding up construction progress, completing construction of Lot No. 1, Dai Giang dyke before the flooding season, which lasts from late September to December	June 2018	Thua Thien-Hue PPMU/DARD	CPMU/ADB	Completed Thua Thien -Hue PPMU discussed with the contractor for better planning, to speeding up construction progress , so that completed progress reached 60% up to December 2018 (only 35 % up to June)
5. Safety for community				
a. Phu Yen PPMU requests contractor to install warning board for limiting speed and load capacity for transport at Lot 1, South Canal, Dong Cam Subproject, in Tan My Village Road	June 2018	Phu Yen PMU/DARD	CPMU/ADB	Completed, August, 2018 Contractor of Lot 1 - Dong Cam subproject installed warning board for limiting speed and load capacity for transportation Completed, August, 2018 Contractor painted the road marker posts in Tan My Village
b. Phu Yen PPMU requests contractor to paint the Road Marker posts in Tan My as the canal along the road causing risk of traffic accident	June 2018	Phu Yen PMU/DARD	CPMU/ADB	

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring	Actions taken to date
6. Safety and sustainable operation of the completed construction subprojects				
a. Ninh Thuan PPMU requests contractor to install warning boards for limiting speed and loading capacity for transport at Nha Trinh – Lam Cam road (pending issue)	June 2018	Ninh Thuan PPMU/DARD	CPMU/ADB	a. Not yet
b. Binh Thuan PPMU hands over responsibility of EMP implementation of the operation phase to Operation Company of Du Du Dam to improve the dam control and plant grass to protect dam from erosion	June 2019	Binh Thuan PMU	CPMU/ADB	b. Completed Binh Thuan PPMU handed over responsibility of EMP implementation to Operation Company of Du Du Dam

B. Environmental Issues and Identified and Action Recommended (Corrective Action Plan proposed for this report period)

Table 8: Environmental Corrective Action Plan (as 23 November 2018)

Environmental Action Plan

(23 November 2018)

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring
Preparation of IEE/uEMPs			
c. PPMU with support from the LIC environment consultant to speeding up the preparation of IEE of Tam Giang Irrigation subproject, Phu Yen, in case the subproject remains in the list of investment subprojects	10 December 2018	Phu Yen PPMU/LIC Environment Consultant	CPMU/ADB
d. PPMUs with support from the LIC environment consultant to update EMP for subprojects with additional construction works (extension using saving funds), and integrating environmental requirements into bidding process: - “Upgrading canal system of Rac River irrigation System” and “Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District” - subprojects in Ha Tinh	30 November 2018	Ha Tinh PPMU/LIC Environment Consultant	CPMU/ADB ▪ u EMP of Rac River is approved by ADB on 6 Jan 2019 ▪ u EMP of Duc Tho approved by CPMU on 14 January 2019
Submission of the Semi-Annual Environmental Monitoring Report			
b. CPMU, with the support from LIC Environment Consultant to submit environment semi-annual monitoring report, July-December 2018 to ADB	31 January 2019	CPMU	ADB Semi EMR July-December 2018 submitted to ADB on 22 Jan 2018 & ADB sent comments

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring
Implementation of EMP- Health and safety for communities			
<ul style="list-style-type: none"> c. Ha Tinh PPMU requests contractor to install warning board and barriers to the construction site at Khe Hao Dam, Loc Ha, Ha Tinh Province to prevent accidents. "Upgrading irrigation/drainage and rural road system in flooding-prone area of Loc Ha District" Subproject. d. Ha Tinh PPMU requests contractor to install warning sign of deep water and dangerous areas in the reservoir, at Khe Hao Dam, Loc Ha, Ha Tinh Province to prevent accidents for community. e. Ha Tinh PPMU requests contractor to install the Information board with contact person, telephone number of CSC and/or project owner at the construction site at Khe Hao Reservoir, Loc Ha Subproject, so that local communities/people can contact relevant stakeholders for providing grievances or comments f. Ha Tinh PPMU requests contractor to implement safety measures at the cross road of Binh Loc Commune, Loc Ha district, preventing traffic accidents g. Ha Tinh PPMU requests contractor to improve drainage of the road preventing water runoff affect Binh An Thinh secondary school in Binh Loc Commune, Loc Ha District h. Thua Thien-Hue PPMU requests contractor to install warning sign with lighting during the night time to reduce risk of traffic accident, Quang Vinh Commune, Quang Dien district. "Upgrading road combining with flood protection dike Pho Lai - Thanh Can - Nam Duong - Co Thap" Subproject i. Binh Dinh PPMU requests contractor to install warning board at the construction site near the road in Cat Hiep Commune, Phu Cat District of Subproject "Repairing calamity impacts of Van Phong irrigation canal system" to avoid people entering construction site, preventing accidents. 	Immediately	Ha Tinh, Thua Thien-Hue and Binh Dinh PPMUs	<p>CPMU/ADB <i>Action taken to date</i> The contractor installed warning board and barriers to the construction site at Khe Hao Dam and installed sign of dangerous areas in the Khe Hao reservoir</p>

List of Subproject 's approved IEEs and uEMPs

No	Province	Name of subproject	IEE/uEMP (IEE/EMP* approved by CPMU)	Date of approval Note
I	Ha Tinh	5 subprojects		
1		Upgrading canal system of Rac River irrigation	IEE	17/9/2015
2		Upgrading irrigation/drainage and rural road system in flooding-prone area of Loc Ha District: Repairing and upgrading the Loc Ha irrigation/drainage system	IEE	08/3/2016
3		Upgrading Ho Dam and Tiem River canal system: Repairing and upgrading Ho dam and Tiem river canal system	IEE*	07/7/2016*
4		Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District:	IEE*	07/7/2016*
5		Upgrading irrigation system of 3 Communes, Thach Ha District: Repairing and upgrading the irrigation system of 3 south-western communes of Thach Ha district	IEE*	07/7/2016*
II	Thua Thien-Hue	3 subprojects		
1		Upgrading Dai Giang River Dike system	IEE	08/4/2016
2		Upgrading Dong Tay Hoi Tom Dike combining with on-farm road		29/6/2016
3		Upgrading road combining with flood protection dike Pho Lai - Thanh Can - Nam Duong - Co Thap	IEE*	22/6/2015*
III	Binh Dinh	6 subprojects		
1		Upgrading Nui Mot Reservoir's canal system	IEE*	29/12/2015*
2		Upgrading Lai Giang Dam's primary canal	IEE	03/10/2014
3		Upgrading Hoi Khanh Reservoir	IEE	29/12/2015
4		Upgrading My Thuan Reservoir	IEE*	29/12/2015*
5		Upgrading rural infrastructures in NhonTho - NhonKhanh	IEE	09/01/2014
6		Upgrading Van Phong canal system	IEE	10/3/2014
IV	Phu Yen	4 subprojects		
1		Consolidate main canal and branch canals of Dong Cam irrigation system	IEE	27/7/2015
2		Upgrading road and sluice of An Cu - An Hiep - An Hoa	IEE	13/8/2015
3		Upgrading Suoi Cau weir and access road Subproject	IEE	04/11/2016
4		Upgrading irrigated canal of Dong Tron reservoir's irrigation system	IEE	18/8/2016
V	Ninh Thuan	2 subprojects		
1		Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal	IEE	13/8/2015
2		Improving and upgrading Cham canal and rural road cum management of South primary canal	IEE	28/1/2016

VI	Binh Thuan	4 subprojects		
1		Upgrading Du Du reservoir, Ham Thuan Nam district	IEE	11/9/2015
2		Upgrading Saloun reservoir, Ham Thuan Bac district	IEE	Sample subproject, IEE was approved August 2013; uIEE was approved 15/4/2016
3		Upgrading/consolidating Ba Bau North primary canal, Ham Thuan Nam district	IEE	16/7/2015
4		Upgrading/consolidating secondary canal of Quao river, Ham Thuan Bac district	IEE	27/7/2015
Additional works				
1	Ha Tinh	Upgrading canal system of Rac: Repairing, upgrading Song Tri canal and branch canals of Rac river N2 canal	uEMP	8/1/2019
2		Upgrading irrigation system, rural road and market in 5 flooded communes of Duc Tho District: Repairing, upgrading and constructing irrigation, drainage canals, pumping station and flood roads	uEMP*	14/1/2019*
3	Thua Thien-Hue	Upgrading Dai Giang River Dike system Subproject: Civil construction and insurance of the sluice of Quan.	uEMP	4/7/2018
4	Binh Dinh	Upgrading Van Phong Canal System	uEMP	5/6/2018
5	Phu Yen	Upgrading Tam Giang irrigation system	uEMP	Expected: March, 2019
6	Ninh Thuan	An Hai Commune Irrigation System	uEMP	3/1/2018
7		Improving and upgrading Cham canal and rural road cum management of South primary canal: Constructing canal and facilities of Cham secondary canal system	uEMP	30/11/2018
8	Binh Thuan	Upgrading North primary canal of Ba Bau irrigation system Subproject: Constructing canals, facilities and equipment from K0+025.7 to K6+880.04	uEMP	18/4/2018
9		Upgrading primary canal of Quao River Subproject: Upgrading, rehabilitating 05 primary canals of N03, N9, N13, N19 and N27	uEMP	23/7/2018
Total	Whole the subprojects	26 subprojects		

Note : IEE */u EMP * : approved by CPMU

Grievance Redress Mechanism

20. During the deployment of the sub-project, local people are informed environmental protection activities such as EMP. Negative impacts on the environment may occur during the construction and operational phases. Any comments/ suggestions of local people will be solved quickly, transparently and in compliance of laws, particularly for affected people by the sub-project. Complaint handling mechanism will be classified by level and responsibilities of involved parties.

21. There are 03 steps to redress complaints as described as below:

- **Stage 1:** If a household has any complaint, he/she can submit a complaint to the CPC-community monitoring board. CPC will work with CSC and CC to solve complaints.
- **Stage 2:** If the complaint is not resolved, the complainant will submit an application to the subproject DPC to resolve the complaints.
- **Stage 3:** If more than 15 days pass without response from the subproject DPC, the complainant may submit a complaint to the subproject PPC (through the subproject DONRE) then, the subproject PPC will require the subproject DPC to solve the complaint. In case the complaint is still not resolved, the subproject PPC will require environmental police to investigate and requested stakeholders to resolve the complaint

22. Concerns of the community are monitored and attended to through the community based monitoring system. Proximity of construction to settlements requires more attention to environmental performance on community matters by a contractor. The incidence of complaints during the reporting period per province is shown in Table 9 (Incidence of Complaints by Province). The construction contractor is required to address all reasonable complaints voiced by the community.

Table 9: Incidence of Complaints by Province

<u>Province</u>	<u>Number of Complaints</u>
Phu Yen	0
Binh Dinh	0
Ninh Thuan	0
Binh Thuan	0
Ha Tinh	0
Hue	0

Remark:

23. The table is based on data from tables of the same title found in the provincial quarterly reports. During the past six months, for all the packages, there were no complaints for those of the 6 PPMUs of Ha Tinh, Thua Thien-Hue, Phu Yen, Ninh Thuan, Binh Thuan.

24. Of the environmental variables that are monitored by CSBs the top variables in rank order found to be most unattended are shown in Table 10 (Rank Order of Most Common Performance Shortfalls).

Table 10: Rank order of most common performance shortfalls

<u>Monitoring Variable</u>	<u>Number of Occurrences</u>	<u>Subproject Name /Province</u>
1.The contractor installed signs and lighting in vicinity of works on public roads?	7	Loc Ha, Dong Tron Subprojects in Phu Yen; Nam Duong-Co

<i>Monitoring Variable</i>	<i>Number of Occurrences</i>	<i>Subproject Name /Province</i>
		Thap subproject in Hue, Van Phong (extension) subproject in Binh Dinh
2.The construction sites did not equipped bins for waste collection and storage	5	Duc Tho, Thach Ha subprojects in Ha Tinh; Quan Sluice, Dai Giang subprojects in Hue ; Ba Bau (extension) subproject in Binh Thuan
3..First aid kits and fire extinguisher readily available to workers at the job site along with instructions for use	4	Quan Sluice, Dai Giang, Hoi Tom Subprojects in Hue and Dong Tron subproject in Phu Yen
4.The contractor provided personal protective equipment (hard hats, ear plugs, dust masks, safety glasses) to workers and training in use?	2	Dong Cam, subproject in Phu Yen, Ba Bau (extension) subproject in Binh Thuan
5.Contractor or Inspector from the Department of Health undertaken an awareness program for communicable diseases/HIV-AIDS	1	Van Phong (extension) subproject in Binh Dinh

V. CONCLUSION

A. Conclusions

25. In general, all contractors of 29 construction packages of 29 subprojects of the six Project Provinces complied with the proposed mitigation measures as described in the Environmental Performance Specifications, which are detailed in the Monitoring Check list that include 50 variables grouped in 5 performance indicators (Annex 1). The overall environmental performance on IRDSPCP/Additional financing subprojects currently underway is good.

26. Aside from substantial compliance with mitigation measures, some main and most common performance shortfalls of contractors during this 6- month reporting period are indicated below:

- Some Contractors have not installed sign and lighting in vicinity of works on public road and barriers to the construction site at the Dam (Loc Ha, Dong Tron Subprojects in Phu Yen; Nam Duong-Co Thap subproject in Hue, Van Phong (extension) subproject in Binh Dinh
- Some contractors have not provided fully bins for waste collection and storage (Duc Tho, Thach Ha subprojects in Ha Tinh; Quan Sluice, Dai Giang subprojects in Hue ; Ba Bau (extension) subproject in Binh Thuan)
- Some of contractors have not provided First aid kits and fire extinguishers to workers at sites, only have medicine box in worker camps (Quan Sluice, Dai Giang, Hoi Tom Subprojects in Hue and Dong Tron subproject in Phu Yen)
- Some of packages of subprojects did not fully provided personal protective equipment (include safety clothes & helmet) to workers (Dong Cam, subproject in Phu Yen, Ba Bau -extension subproject in Binh Thuan)
- Awareness raising of communicable diseases/HIV-AIDS for workers is not carried out as the contractors not invite Department or Centre of Health's staff disseminate for workers (Van Phong irrigation Subproject additional works)

- The contractor of Loc Ha Subproject in Ha Tinh Province is requested to install warning board and barriers to the construction site at Khe Hao Dam, warning sign of deep water and dangerous areas in the reservoir at Khe Hao Dam, the Information board with contact person, telephone number of CSC and/or project owner at the construction site at Khe Hao Reservoir, to implement safety measures at the cross road of Binh Loc Commune, to improve drainage of the road preventing water runoff affect Binh An Thinh secondary school in Binh Loc Commune, Loc Ha District
- The contractor of Pho Lai - Thanh Can - Nam Duong - Co Thap Subproject is requested to install warning sign with lighting during the night time to reduce risk of traffic accident in Quang Vinh Commune, Quang Dien district
- The contractor of Repairing calamity impacts of Van Phong irrigation canal system subproject is requested to install warning board at the construction site near the road in Cat Hiep Commune, Phu Cat District to avoid people entering construction site, preventing accidents.

B. Recommendations

27. Field activities should include:

To PPMUs

- Ha Tinh PPMU to coordinate with the contractor to implement installing warning board and barriers at Khe Hao Dam , to implement safety measures at the cross road of Binh Loc Commune, to improve drainage of the road preventing water runoff affect Binh An Thinh secondary school in Binh Loc Commune, Loc Ha District
- Thua Thien-Hue PPMU to coordinate with the contractor to implement installing warning sign with lighting during the night time to reduce risk of traffic accident in Quang Vinh Commune, Quang Dien district
- Binh Dinh PPMU to coordinate with the contractor warning board at the construction site near the road in Cat Hiep Commune, Phu Cat District to avoid people entering construction site, preventing accidents.
- Issues recommended by the ADB Mission in the November 2018 MTR that have been solved should be included in the 5th report.

To CSCs

- CSCs with the support from environment consultant, to improve supervision of contractor's EMP implementation:
- Review contractors' performance deficiencies remarked during previous monitoring exercises, update performance in tracking forms and resolve issues with the construction contractor, as indicated above and that should be reminded & resolved with contractors to avoid their repetition.

VI. APPENDICES

APPENDIX 1: The format and indicators for environmental monitoring

Annex 1- Checklist and Environmental Compliance Monitoring Form

Environmental Compliance Monitoring Form

Instructions for use:

- I. The monitoring form consists of three parts:
 - a. Part A: General Project Information
 - b. Part B: Monitoring checklist
 - c. Part C: Performance Tracking
- II. Part A is for recording general information on the subproject construction package as well as names, responsible persons and contact phone numbers for the design and construction supervision consultant, the construction contractor and the Environmental Management Officer (EMO) for the PPMU.
- III. Part B: The Monitoring Checklist, consists of three sections:
 - a. A section to be completed one-time-only during the period when the design is being finalized, the project tendered, and construction activities started. This section provides monitoring of four performance indicators: Design and Preparations, Worker Provisions, Biodiversity and Community Based Monitoring. The section also contains fields for entering information regarding the public consultation, comments and follow-up.
 - b. A section to be completed quarterly during the construction period. This section provides monitoring of two performance indicators: Community Values and Safety, and Hydrology/Water Pollution. A separate copy of this section (page 3 of the monitoring checklist) will be completed for each period quarter of the construction duration.
 - c. A section to be completed one-time-only during the period when construction work is nearing completion. This section provides monitoring of Project Completion indicators of performance.

Though the monitoring checklist is filled in one-time-only or quarterly, the variables are inspected continuously by the site supervisor along with other aspects of construction performance. The contractor is responsible for fulfilling the environmental mitigation requirements and is subject to notification concerning any deficiency on a continuous, ongoing basis.

- IV. Part C: Performance Tracking consists of three sections:
 - a. Performance Follow-up, where performance shortfalls noted in prior monitoring are listed and checked against current monitoring results.
 - b. Community Complaints, where issues raised by the affected community are registered, tracked and outcomes recorded.

- c. Performance Indicator Results, where environmental performance against indicators are recorded.
- V. Sections of the checklist to be completed initially, at or around the beginning of construction, include:
- a. Performance Indicator 1: Design and Preparations: to be completed in two parts (see checklist) at the time the design is being finalized and project tendered (by the PPMU), and at the time construction begins (by the Construction Supervision Consultant (CSC) in conjunction with the PPMU).
 - b. Performance Indicator 2: Worker Provisions: to be completed at the time construction gets underway by the CSC.
 - c. Performance Indicator 3: Biodiversity: to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.
 - d. Performance Indicator 4: Community Based Monitoring: to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.

While the parts of the checklist reflecting these performance indicators are in general completed one-time-only, the variables may require more frequent inspection to assure continued compliance over the life of the construction project.

- VI. Sections of the checklist to be completed quarterly by field monitoring at the construction site and surrounding affected area include:
- a. Performance Indicator 5: Community Values and Safety: results entered into this section of the checklist should be based on visual monitoring of affected areas and discussions with community members and affected people.
 - b. Performance Indicator 6: Hydrology/Water Pollution: results entered into this section of the checklist should be based on visual monitoring of the construction area and surrounding water bodies (rivers, streams, canals and lakes).
- VII. In addition to field monitoring, other quarterly field activities include:
- a. Record and review complaints from the community, inform the PPMU and resolve issues with the construction contractor.
 - b. Review performance deficiencies noted during previous monitoring, update performance tracking forms and resolve issues with the construction contractor.
- VIII. The Performance Indicator 7: Project Completion section of the checklist should be filled out when construction is over. The results are based on field monitoring of the site and surrounding community areas. Issues should be resolved before final payment is made to the contractor.
- IX. A “yes” answer to a question in the checklist indicates substantial compliance with the mitigation measure. “Substantial compliance” means that the mitigation measure is being implemented in most instances, with only a few isolated exceptions.

- X. In all cases (for all performance indicators), once monitoring is nearing completion and the appropriate section of the checklist has been completed, the inspector needs to tally the score and calculate the percent compliance, as provided for in the last row under each of the performance indicators, done by counting the total number of “yes” answers and dividing by the number of questions contributing to the score for the performance indicator (shown on the form), expressed as percent.
- XI. Performance Follow-up involves the following actions:
- a. As a final action of monitoring at the site or in an office (design consultant or PPMU) the inspector or monitoring officer must notify the agency responsible for implementing mitigation actions (usually the construction contractor) of any shortcoming in performance and discuss with its responsible individual means for correcting the deficiency.
 - b. Using the Performance Follow-up form (Part C, Section 1), the inspector or monitoring officer will enter the relevant information in Columns 1 – 3 concerning the performance shortfalls observed during monitoring: performance variable number (1-50) and date observed (column 1), reason behind negative rating (column 2), and whether or not the responsible agency was notified and date of notification (column 3).
 - c. During the next/follow-up monitoring tour, the inspector will indicate in column 4 of Part C, Section 1 whether the problem has been corrected by entering “Yes” or “No” as appropriate if “Substantial Compliance” (see Item IX above) is/is not achieved.
 - d. For Performance Indicators 1 – 4, Indicator scores (see Item XII below) should be adjusted accordingly if the performance shortfall has been corrected within the next three months (quarter). It should be noted in Column 5 of Part C Section 1 if the indicator score has been adjusted.
 - e. For Performance Indicators 5 and 6, there is no need to adjust indicator scores, since improved performance will be reflected in the results from the next quarterly monitoring.
 - f. For Performance Indicator 7, a post-completion monitoring tour will need to be conducted to determine whether performance shortfalls have been corrected. The indicator score should be adjusted accordingly. It should be noted in Column 5 of Part C Section 1 if the indicator score has been adjusted.
 - g. Performance shortfalls should be registered consecutively up through the end of the construction activity using the Performance Follow-up form. Additional copies of the blank form can be made and attached to the Environmental Compliance Monitoring Form file.
- XII. Community Complaints are recorded and resolved using the form in Part C, Section 2. This involves the following actions:
- a. The inspector or monitoring officer will receive any complaints from members of the affected community and work with the construction contractor to resolve the deficiency.
 - b. Using the Community Complaints form (Part C, Section 2), the inspector or monitoring officer will enter the relevant information in Columns 1 – 3 concerning the complaint: name of person bringing the complaint and date

(column 1), summary of complaint (column 2), and whether or not the responsible agency was notified and date of notification (column 3).

- c. The inspector will indicate in column 4 of Part C, Section 1 whether the problem has been corrected by entering "Yes" or "No" as appropriate.
- d. The inspector will contact the person registering the complaint, explain the corrective actions taken, provide any other justifications, and determine whether the person is satisfied with the action taken. It should be noted in Column 5 of Part C Section 2 if the person is satisfied with the corrective action.
- e. Community complaints should be registered consecutively up through the end of the construction activity using the Community Complaints form. Additional copies of the blank form can be made and attached to the Environmental Compliance Monitoring Form file.

XIII. Performance Indicator Results are recorded using the form shown in Part C Section 3 using the following procedure:

- a. Complete the general information at the top of the form. This assures that the data in the form are identified and associated with the correct subproject and reporting period.
- b. In respect to the form, cells that are darkened are not to be filled in; only those cells that are un-shaded receive data entries.
- c. Enter the score as a percent taken from the checklist (see item X in the instructions) opposite the appropriate performance indicator. This will be done consecutively as the project progresses, from left to right in the form. Enter the date when the score is recorded.
- d. Performance indicators 1 – 4 are evaluated only once, around the time of project startup, though performance follow-up may result in a revision of the score (see item XI in the instructions). The form accommodates both initial and revised scores for these indicators. This is the case with Indicator 7 as well, recorded near the end of the project.
- e. Indicators 5 and 6 are recorded for each quarter of the project construction period. Four quarters are shown on the form; however the project may run for shorter or longer than four quarters. The form can be adjusted accordingly to accommodate the actual duration for a given project. Regardless of how many quarters of data are taken, after the final round of monitoring the data are averaged across all quarters, and the value entered in the form.
- f. Following completion of the subproject, it is "closed out" from the standpoint of environmental monitoring by entering the final scores in the right hand column, consisting of the revised values for indicators 1 – 4 and 7, and the average scores for indicators 5 and 6.

XIV. Note on alignment of project quarters and calendar quarters: In order to support the need for reports timed to coincide with calendar quarters, the monitoring should be conducted and reports submitted to the PPMU near the end of a given calendar quarter.

Environmental Compliance Monitoring Form for Construction Package

Part A: General Project Information

Subproject Name: _____

SIR Code: _____ Subproject Package #: _____ Activity Sector: _____

Province: _____ Districts: _____

Design and Supervision Consultant Firm: _____

Construction Company Name: _____ Contract Date: _____

Contract Amount: _____ Contract Duration (days) _____

Person Responsible: _____ Phone _____

PPMU EMO: _____ Phone _____

Part B: Monitoring checklist

Performance Indicator 1. Design and Preparations

The PPMU to complete 1-4 in conjunction with the subproject design consultant at the time the project is tendered. Date of Monitoring: _____

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
1. Have all UXO been cleared prior to commencement of construction?			
2. Does the subproject design meet applicable engineering safety and public health standards?			
3. Have the resettlement provisions been disclosed to the affected communities and compensation made to affected persons or households?			
4. For the applicable subproject type:			
a. Roads, embankments, irrigation works and coastal protection: does the design provide cross drainage to prevent flooding?			
b. Markets: does the design provide washing facilities and toilets in the market area?			

The construction Supervision consultant (CSC) to complete 5-10 with the PPMU and construction contractor at the time of start-up. Date of Monitoring: _____

5. Has the contractor prepared a Site EMP?			
6. Has the contractor posted a public notice regarding the nature, extent and cost of the project?			
7. Are locations for mixing plants sufficiently distant from houses, schools and hospitals?			
8. Are agreements in place with owners for temporary use of land for worker camps and construction yards?			
9. Have spoil disposal sites been selected in consultation with local authorities?			
10. Are official permits on record for quarry sites and borrow pits?			
Score (1-10; 10 total)			(%)

Performance Indicator 2. Worker Provisions

The CSC to complete 11-16 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring: _____

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
11. Were local authorities consulted in the planning for the location of construction worker housing?			
12. Are supervisors or other site personnel trained in basic first aid emergency response measures?			
13. Are first aid kits readily available to workers at the job site along with instructions for use?			
14. Has the contractor or Inspector from the Department of Health undertaken an awareness program for communicable diseases/HIV-AIDS?			
15. Has the contractor provided safety equipment (hard hats, ear plugs, dust masks, safety boots and glasses) to workers and training in use?			
16. Are construction camps equipped with adequate water supply, sanitary toilets, washing facilities and facilities for waste collection and storage?			
Score (11-16; 6 total)			(%)

Performance Indicator 3. Biodiversity

The CSC should complete 17-21 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring: _____

	Yes	No	Remarks
17. Does the project avoid encroaching on natural forests or wetlands?			
18. Does the project avoid adverse effects on flow of natural streams and water quality?			
19. Are worker camps located outside of forested areas and has the contractor restricted access of workers to forests, fishing and hunting?			
20. Does the contractor obtain fill materials only from pre-existing quarries, or from borrow pits within the strict limits of the construction zone?			
21. For irrigation sector projects, are effects on agricultural biodiversity limited through use of integrated pest management?			
Score (17-21; 5 total)			(%)

Performance Indicator 4. Community Based Monitoring

The CSC to complete 22 and 23 in conjunction with the PPMU and construction contractor following commencement of construction. Date of Monitoring: _____

	Yes	No	Remarks
22. Has the contractor posted a public notice regarding complaints from the community?			
23. Has there been a public consultation regarding construction, environmental impact, and the community complaints system?			
Score (22-23; 2 total)			(%)

Outcome of Public Consultation:

Date: _____ Location: _____

Topics covered in presentation: _____

Comments from Attendees:

Performance Indicator 5. Community Values and Safety

Items 24 – 35 should be inspected quarterly. Date of Monitoring: _____

	Yes	No	Remarks
24. Is temporary access provided to adjacent properties as needed?			
25. Is permanent access to adjacent properties reinstated on completion of a segment of work?			
26. Are construction hours adjusted around houses, hospitals and schools to minimize disturbance?			
27. Does the contractor limit the scope of construction in progress to minimize community impacts?			

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
28. Are physical impacts on public infrastructure and service disruption minimized?			
29. Are materials transported on approved haul routes?			
30. Are construction equipment maintained in good condition?			
31. Do vehicles operate within legal speed limits?			
32. Are material loads traveling on public routes covered?			
33. Is dust suppressed by watering exposed surfaces?			
34. Has the contractor installed signs and lighting in vicinity of works on public roads?			
35. Is access to the construction site restricted to the public?			
Score (24-35; 12 total)			(%)

Performance Indicator 6. Hydrology/Water Pollution

Items 36 – 43 should be inspected quarterly. Date of Monitoring: _____

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
36. Are construction camps maintained in a clean and hygienic condition?			
37. Are oil, fuel and chemicals stored in enclosed areas (dyked or covered)?			
38. Is discharge of wastewater into water bodies used for water supply avoided?			
39. Is clearing activity suspended during rains?			
40. Does the contractor prevent discharge of concrete trucks to waterways?			
41. Have existing drainage patterns been maintained during construction?			
42. Are areas of standing water in the construction area drained and backfilled?			
43. Are sediment controls installed upslope of waterways?			
Score (36-43; 8 total)			(%)

Performance Indicator 7. Project Completion

Items 44 – 50 should be inspected prior to finalizing the construction works.

Date of Monitoring: _____

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
44. Have drainage fixtures, curbs, road shoulders and ditch slopes been finished out to prevent hazard to the public during use?			
45. Are ground surfaces in the project area graded to prevent water from collecting?			
46. Have all construction debris, tree cuttings, excess dirt, rubble and scrap been removed from the construction zone?			
47. Have all pits been filled in and graded to drain, underground tanks (including septic tanks) removed and holes backfilled?			
48. Are all waste products removed from the construction site, equipment yards and worker camps, including oil waste, scrap materials and equipment, building materials and domestic waste?			

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
49. Have all points of access (drives, walks) and utilities (water supply, power, communications) to public and private property been restored to original condition?			
50. Have all complaints by the local community and individuals been resolved by the Contractor?			
Score (44-50; 7 total)			(%)

Part C: Performance Tracking

Part C: Performance Tracking consists of three sections:

- Performance Follow-up, where performance shortfalls noted in prior monitoring are listed and checked against current monitoring results.
- Community Complaints, where issues raised by the affected community are registered, tracked and outcomes recorded.
- Performance Indicator Results, where environmental performance against indicators are recorded.

Section 1: Performance Follow-up

[illegible]

Section 2: Community Complaints

Column 1 Person Registering Complaint / Date	Column 2 Summary of Complaint	Column 3 Was agency responsible notified? / Date	Column 4 Was problem corrected before next monitoring?	Column 5 Was Person satisfied with Action?

Section 3: Performance Indicator Results

Project Name: _____ SIR No.: _____
 Package #: _____ Province: _____
 Project Start Date: _____

	Startup	Rev.	Q1	Q2	Q3	Q4	Average	Completion	Rev.	Final
Recording Date:										
8. Design and Preparations										
9. Worker Provisions										
10. Biodiversity										
11. Community Based Monitoring										
12. Community Values / Safety										
13. Hydrology/Water Pollution										
14. Project Completion										

Submittal Date: _____ For Calendar Quarter: _____

Inspector: _____

(Signature)

Annex 2- Reporting Procedures and Templates.

Reporting Procedures and Templates

Procedures

A series of reports are needed for environmental reporting on the IRDPCP – Additional financing

1. . These are summarized in the following table:

Type Of Report	Frequency	Responsibility	Submitted To Whom
Quarterly Subproject Compliance Report	Quarterly for each ongoing subproject construction package ¹	CSC	PPMU
Quarterly Provincial Compliance Report	Quarterly consolidating results for all subprojects underway in the province.	PPMU	CPMU/LIC
Semi-annual Environmental Performance Review	Every 6 months presenting results for all provinces	CPMU/LIC	ADB, AFD, DONRE, MONRE
Subproject Completion Report	At completion of subproject construction package	CSC	PPMU, forwarded to CPMU
Project Completion Report	At completion of Project	CPMU/LIC	ADB, AFD, DONRE, MONRE

2. Reporting is cumulative for subproject construction packages, provinces and in respect to elapsed time for subprojects and the overall project. For this reason, and because of the way the forms are set up, some data will be repeated in subsequent reports.
3. The Quarterly Subproject Compliance Report is prepared by the Construction Supervision Consultant (CSC). It consists of photocopies of Part C of the Environmental Compliance Monitoring Form once it is completed for the quarter: the Performance Follow-up Form, the Community Complaints Form, and the Performance Indicator Results. These are submitted by CSCs to the PPMU for every active subproject package within the province. A transmittal letter that itemizes the contents of the transmittal should accompany the photocopied forms. Electronic copies of the forms should also be sent by email attachment; the electronic versions should faithfully reproduce the contents of the forms completed in hard copy (ink). The hard copy is the official version and should be filed accordingly among the project records in the PPMU.
4. The Quarterly Provincial Compliance Report is prepared by the PPMU to summarize the Subproject Quarterly Compliance Reports. The report template is shown in the file <Quarterly Provincial Compliance Report.doc>. Use of the forms/tables found in the report template is described below.
- a. Table 1: Subproject Status is mostly self-explanatory. Enter the subproject name, its SIR number, the construction package number, the total contract duration, elapsed time to the end of the quarter, and percent complete,

¹ A subproject construction package refers to an individual, stand-alone construction contract. The subprojects are commonly divided into multiple construction contract packages; each package, or contract, has to be inspected, monitored and reported on separately. The distinction between “subproject” and “subproject construction package” is sometimes not made in the following description, but the latter is referred to whenever the construction phase of the subproject is underway.

calculated

as

$(\text{elapsed time} / \text{total time}) * 100 = \text{percent complete}$

- b. Table 2: Quarterly Subproject Performance Indicator Results: For each subproject construction packages, the date and SIR # / package # for the contract is entered on the form. Subproject packages are entered chronologically from top to bottom on the form (columns 1 and 2). Quarterly data for a particular subproject package from the Quarterly Subproject Compliance Report, Section 3 Part C of the Environmental Compliance Monitoring Form, are entered into the form in accordance with the following:
1. If any of the five indicators that may undergo revision (1—4 and 7) has been revised during the quarter (see instructions for this form), the revised value is entered in the form. Otherwise use the original value.
 2. The values for indicators 5 and 6 for the current quarter are entered into the form.
 3. The average of all indicators for which there are recorded values is entered in the right hand column (in other words, do not include blank fields in calculating the average).
- c. Table 3: Quarterly Provincial Performance Indicator Results: For each of the seven indicators, e.g. the columns containing indicators 1—7 in Table 2, the average of all subprojects for which there are recorded values is calculated and entered into the appropriate field. An overall average is calculated, as indicated by the table. (This number is used in the template text, preceding paragraph. Also, the text requires selection of good/ average/bad to describe provincial performance in environmental mitigation: this is based on the average value, bottom right, Table 3, with “good” > 75%; “average” 25—75%; poor < 25%.)
- d. Table 4: Rank Order of 10 Most Common Performance Shortfalls: The table is based on data found in the Environmental Compliance Monitoring Form Part 3 Section 1. The instances of negative ratings for performance variables during the quarter need to be counted. The top 10 variables in terms of frequency are entered into the form and the number of instances recorded. As a check, this number cannot exceed the number of active subprojects underway during the quarter.
- e. Table 5: Rank Order of 10 Most Common Exclusions: An “exclusion” is a performance shortfall that is carried over from one quarter to the next. The system allows for correcting a shortfall within one quarter; otherwise the failure to mitigate comes under scrutiny as explained in the report template text. Following evaluation, the CPMU, in conjunction with PPMU, may decide the measure should be “excluded” from the list of mitigation requirements, hence the name. This table is intended to flag what might be considered a “persistent problem” in implementing a mitigation measure. The information is determined by reviewing the Environmental Compliance Inspection Form Part 3 Section 1 for repeated instances of a mitigation measure not being complied with. These are tallied (counted) across all active subprojects and the top 10 variables in terms of frequency are entered into the form and the number of instances recorded.

Note there can be no instance of an exclusion until a subproject has been

underway for at least six months, in time for two reporting periods to elapse.

If there are no exclusions on any subproject for the period, the sentence in the previous paragraph *“Exclusions for the current quarter (e.g. performance shortfalls from the previous quarter that have gone uncorrected) are listed in Table 5 (Rank Order of 10 Most Common Exclusions)”* should be deleted from the text along with the table itself and the following statement entered in its place:

“There are no exclusions for the current quarter.”

- f. Table 6: Incidence of Complaints on Subprojects: This table tallies for each active subproject package the number of complaints recorded during the quarter on the Environmental Compliance Inspection Form Part 3 Section 2. No further analysis of data is expected.
5. The Semi annual Environmental Performance Review may be either a section of the overall semi-annual report or a separate (stand-alone) document. The template is set up as a separate document; if treated as a section in a larger report, cover and contents list should be omitted. The report is prepared by the CPMU/LIC to summarize the Quarterly
6. Provincial Compliance Reports. The report template is shown in the file <Semi annual Environmental Performance Review.doc>. Use of the forms/tables found in the report template is described below.
 - a. Table 1: Subproject Status by Province is mostly self-explanatory. Enter for each province the number construction packages started, the number completed and the number currently active at the end of the reporting period. The information is derived from the most recent provincial quarterly reports, Table 1, Subproject Status.
 - b. Table 2: Performance Indicator Results by Province: For each province, enter the number of active subproject construction packages and the averages for each performance indicator across all active subprojects. These data are taken from the most recent provincial quarterly reports, Table 3, Quarterly Provincial Performance Indicator Results. Calculate and enter overall performance to date (average of all indicators for a particular province).
 - c. Table 3: Performance Indicator Results for the IRDSPCP– Additional financing: For each of the seven indicators, e.g. the columns containing indicators 1—7 in Table 2, the average of all provinces is calculated and entered into the appropriate field. An overall average is calculated, as indicated by the table. (This number is used in the template text, preceding paragraph. Also, the text requires selection of good/ average/bad to describe performance in mitigation: this is based on the average value, bottom right, Table 3, with “good” > 75%; “average” 25—75%; poor < 25%.)
 - d. Table 4: Rank Order of 10 Most Common Performance Shortfalls: The table is based on data from tables of the same title found in the provincial quarterly reports. The number of negative ratings for specific performance variables for both quarters making up the semi-annual period need to be determined from these tables. The top 10 variables in terms of frequency are entered into the form and the number of instances recorded.

- e. Table 5: Rank Order of 10 Most Common Exclusions: The table is based on data from tables of the same title found in the provincial quarterly reports. The number of exclusions for specific performance variables for both quarters making up the semi-annual period need to be determined from these tables. The top 10 exclusions in terms of frequency are entered into the form and the instances recorded.

If there are no exclusions shown on any of the quarterly reports for the period, the sentence in the previous paragraph "*Exclusions for the current reporting period are listed in Table 5 (Rank Order of 10 Most Common Exclusions)*" should be deleted from the text along with the table itself and the following statement entered in its place:

"There are no exclusions for the current reporting period."

- f. Table 6: Incidence of Complaints by Province: The table is based on data from tables found in the provincial quarterly reports. The number of complaints per province for both quarters making up the semi-annual period need to be determined from these tables.
7. Subproject Completion Report is prepared by the Construction Supervision Consultant (CSC). It consists of Part C of the Environmental Compliance Monitoring Form once the subproject package has been completed: the Performance Follow-up Form, the Community Complaints Form, and the Performance Indicator Results. These are submitted by CSCs to the PPMU for every active subproject package within the province. The PPMU will approve, certify and forward these reports to the CPMU.
8. Project Completion Report: It will likely be based on a synopsis of the semi-annual reports, perhaps with some trend analysis of data from tables therein.

APPENDIX 2 : Pictures at the site of Subprojects during July -December 2018



Warning board at dangerous area in the Loc Ha Subproject (December 2018)

Warning board in the reservoir at Khe Hao Dam (December 2018)



Warning sign at the site of Loc Ha Subproject (December 2018)



Suoi Cau Dam of Suoi Cau Subproject is completed



At site of Ba Bau (extension) subproject



At site of Ba Bau (extension) subproject