

# Environmental Monitoring Report

Semi-Annual Environmental Monitoring Report  
( January – June 2017)

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

## **CURRENCY EQUIVALENTS**

(as of June 2017)

Currency unit	–	Vietnamese Dong (VND)
VND 1.00	=	\$0.00004406
\$1.00	=	VND 22,695

## **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 <sup>2</sup>	–	square kilometer
m	–	Meter
m <sup>2</sup>	–	square meter
m <sup>3</sup>	–	cubic meter
m <sup>3</sup> /d	–	cubic meters per day
m <sup>3</sup> /s	–	cubic meters per second
mg/m <sup>3</sup>	–	milligrams per cubic meter
mm	–	Millimeter

## **NOTE**

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

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## **I. INTRODUCTION**

### **a. Report Purpose and Rationale**

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 13 participating provinces.<sup>1</sup> 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).

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 January to June 2017. 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 and CEMPs, including documentation of complaints received and corresponding action/resolution; and
- results of the environmental monitoring of the Community Supervision Boards

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**

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 20<sup>th</sup> 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.

The project objective 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)

### *Subproject Status under construction*

Up to the end of June 2017, there are 24 subproject construction packages currently active, of which 03 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
1	Ha Tinh	5 subprojects	<b>5</b>	<b>0</b>	<b>5</b>
		Upgrading canal system of Rac River irrigation	1	0	1
		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
		Upgrading Ho Dam and Tiem River canal system: Repairing and upgrading Ho dam and Tiem river canal system	1	0	1
		Upgrading irrigation system, rural road and market in 5 flooded communes of DucTho District:	1	0	1
		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	0	1
2	TT Hue	3 subprojects	<b>3</b>	<b>0</b>	<b>3</b>
		Upgrading Dai Giang River DiKE system	1	0	1
		Upgrading Dong Tay Hoi Tom DiKE combining with on-farm road	1	0	1
		Upgrading road combining with flood protection dike Pho Lai - Thanh Can - Nam Duong - Co Thap	1	0	1
3	Binh Dinh	6 subprojects	<b>6</b>	<b>1</b>	<b>5</b>

		Upgrading Nui Mot Reservoir's canal system	1	0	1
		Upgrading Lai Giang Dam's primary canal	1	0	1
		Upgrading Hoi Khanh Reservoir	1	0	1
		Upgrading My Thuan Reservoir	1	0	1
		Upgrading rural infrastructures in NhonTho - NhonKhanh	1	0	1
		Upgrading Van Phong canal system	1	1	0
4	Phu Yen	4 subprojects	4	0	4
		Consolidate main canal and branch canals of Dong Cam irrigation system	1	0	1
		Upgrading road and sluice of An Cu - An Hiep - An Hoa	1	0	1
		Upgrading Suoi Cau weir and access road Subproject	1	0	1
		Upgrading irrigated canal of Dong Tron reservoir's irrigation system	1	0	1
5	Ninh Thuan	2 subprojects	2	2	0
		Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal	1	1	0
		Improving and upgrading Cham canal and rural road cum management of South primary canal	1	1	0
6	Binh Thuan	4 subprojects	4	0	4
		Upgrading Du Du reservoir, Ham Thuan Nam district	1	0	1
		Upgrading Saloun reservoir, Ham Thuan Bac district	1	0	1
		Upgrading/consolidating Ba Bau North primary canal, Ham Thuan Nam district	1	0	1
		Upgrading/consolidating secondary canal of Quao river, Ham Thuan Bac district	1	0	1
Total	Whole the sub projects	24 subprojects	24	3	21

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
- 24 subproject construction packages included: Repairing and upgrading inter commune & commune road, Upgrading & lining Irrigation canal scheme/flood protection dike system.

## 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. Checklist on EMP compliance with Loan Covenant

No	Loan Covenants	Compliance Status
<b>Particular Covenants</b>		
<b>Environment</b>		
	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]	<b>Being complied with.</b> 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]	<b>Being complied with</b> for (a) and (b). With the support from LIC and guided by ADB, 05 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

##### *Environmental Monitoring Programs*

General environmental safeguard monitoring with associated Grievance Redress Mechanism is undertaken, by construction supervision consultant and environmental specialist under LIC during construction phase and by Operating Companies during operation phase, to ensure that 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;



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.

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...

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 serious air, noise, water quality pollution was observed the predicted level of environmental impact.

The relevant stakeholders 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 2 )

Table 2 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	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
	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/HĐXD 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 Dang Nguyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construction Consultant	Mr Dang Nang Triet	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The construction was completed &amp; operated</li> <li>Completed : 100%</li> </ul>
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/HĐXD 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 Dang Nguyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construction Consultant	Mr Duong Truong ky	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The construction was completed &amp; operated</li> <li>Completed : 100%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
3	Ninh Thuan	NT1 Improving and upgrading the beginning section of North primary canal and rural road cum management of the North primary canal  03/HĐXD dated:13/5/201 6 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 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	+ Name: joint venture of Ngoc Anh construction private business and Ninh Thuan construction Joint Stock Company + 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"	13/5/2016	13/5/2016	Mr Dang Nguyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construct ion Consulta nt	Mr Le Van Ba & Mr Doan Duc Thanh	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The construction was completed &amp; operated</li> <li>Completed : 100%</li> </ul>
4	Ninh Thuan	NT2 Improving and upgrading Cham canal and rural road cum management of South primary canal  04/HĐXD dated:13/5/201 6 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 Dang Nguyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Nguyen Tan Thi/ The Central- South Part Limited Join Stock Campany	Mr Hoang Manh Thang	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The construction was completed &amp; operated</li> <li>Completed : 100%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
5	Ninh Thuan	NT2 Improving and upgrading Cham canal and rural road cum management of South primary canal  05/HĐXD 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 Dang Nguyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU	Mr Nguyen Tan Thi/The Central-South Part Limited Join Stock Company	Mr Nguyen Chi Dung	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The construction was completed &amp; operated</li> <li>Completed : 100%</li> </ul>
	Binh Thuan									
6	Binh Thuan	BT3 Upgrading/consolidating Ba Bau North primary canal, Ham Thuan Nam district 07/2016/HĐTC-DAMT-KVBS dated:07/6/2016 completion date: 07/6/2017	Upgrading/consolidating Ba Bau North primary canal, Ham Thuan Nam district  Lot 1: Construction of canal, structure on canal and installation of equipment at section K0-K6	+ 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"	7/6/2016	22/6/2016	Mr Nguyen Hong Truong	Mr Hoang Nhu Bao	Ms Le Thi Dieu Hien	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 43.62%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
7	Binh Thuan	BT3 Upgrading/ consolidating Ba Bau North primary canal, Ham Thuan Nam district  08/2016/HĐTC -DAMT-KVBS dated:09/6/201 6 completion date: 09/6/2017	Upgrading/consolidating 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	<ul style="list-style-type: none"> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 43.62%</li> </ul>
8	Binh Thuan	BT1 Upgrading Du Du reservoir, Ham Thuan Nam district 10/2016/HĐTC -DAMT-KVBS dated:09/6/201 6 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	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 91.12%</li> </ul>
9	Binh Thuan	BT4 Upgrading/consolidating secondary canal of Quao river, Ham Thuan Bac district 09/2016/HĐTC -DAMT-KVBS dated:09/6/201	Upgrading/consolidating 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	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
		6 completion date: 09/7/2017								is simply assessed, should be improved ▪ Completed : 80.86%
10	Binh Thuan	BT2 Upgrading Saloun reservoir, Ham Thuan Bac district 16/2016/HĐTC -DAMT-KVBS dated:28/9/201 6 completion date: 28/10/2017	Upgrading Saloun reservoir, Ham Thuan Bac district: Construction and installation of equipment for the whole subproject	+ Name: Dai An Investment Construction Co., JSC (Công ty cổ phần đầu tư xây dựng Đại An) + Address: No. 36B/41, Thai Ha Street, Trung Liet Ward, Dong Da district, Ha Noi city	28/9/201 6	17/10/201 6	Mr Nguyen Hong Truong	Mr Dinh Cong Thanh	Mr Nguye n Hoang Thao	▪ On going ▪ CEMP was prepared by contractors and approved PPMU ▪ The environmental safeguard monitoring report by SCS is simply assessed, should be improved ▪ Completed: 78.28%
	Binh Dinh									
11	Binh Dinh	BD2 Upgrading Lai Giang Dam's primary canal  26/2016/HĐXL dated:30/5/201 6 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"	30/5/201 6	5/6/2016	Mr Nguyen Tan Vinh	Mr Vo Anh Tu / Hoang Le Limited Join Stock Company on Construct ion Consulta nt	Mr Nguye n Van Trieu & Nguye n Vuong Quoc Bao	▪ 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

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										the issues arise, date, time and location ▪ Completed :61.88%
12	Binh Dinh	BD2 Upgrading Lai Giang Dam's primary canal  27/2016/HĐXL dated:30/5/201 6 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"	30/5/201 6	5/6/2016	Mr Nguyen Tan Vinh	Mr Nguyen Xuan Phi /Kieu Viet Limited Join Stock Company on Construct ion Consulta nt	Ms Le Thi Ninh	▪ 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 : 61.88%
13	Binh Dinh	BD6 Upgrading Van Phong canal system: 29/2016/HĐXL dated:13/6/201 6 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 Dinh Province" and "No 505, Tran Phu street ,Binh Dinh ward, An Nhon Town, Binh Dinh Province"	13/6/201 6	20/6/2016	Mr Nguyen Tan Vinh	Mr Cao Dinh Tan / An Thinh Limited Join Stock Company on Construct ion Consulta nt	Mr Vo Van Loi	▪ CEMP was prepared by contractors and approved PPMU ▪ The construction was completed & operated ▪ Completed : 100%

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
14	Binh Dinh	BD 5 Upgrading rural infrastructures in Nhon Tho – Nhon Khanh:  25/2016/BQL- HDXL dated: 28/11/2016 completion date: 12/2018	Upgrading rural infrastructures in Nhon Tho – Nhon Khanh:  Lot 1 : Building new Truong Cuu bridge from K4+289 to K4+454; length = 165.00 m	+ Name: Bien Dong consultant and Construction JSC (Cty CP tu van và xây dựng Bien Dong) + Address: " No. 19, lane A, Nguyen Sy Sach street, Trung Tien living quarter, Hung Dung ward, Vinh city, Nghe An province"	28/11/2016	14/3/2017	Mr Nguyen Tan Vinh	Ms Nguyen Thi Bich Lien / Binh Dinh Transport ation Design Consulta nt Limited Join Stock Company	Mr Ho Manh Cuong	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Completed : 9.33%</li> </ul>
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 Consulta nt Join Stock Company	Mr Tran Van Quy	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly , quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date,</li> </ul>



No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										time and location ▪ Completed : 9.33%
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 //Institute of Central Region's Training & Applied Science	Mr Le Tien Hao	<ul style="list-style-type: none"> <li>▪ On going</li> <li>▪ CEMP was prepared by contractors and approved PPMU</li> <li>▪ The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>▪ Completed 14.11%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
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"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Completed 14.11%</li> </ul>
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	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"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
				Dinh Province"						<ul style="list-style-type: none"> <li>is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Completed: 7.83%</li> </ul>
19	Binh Dinh	BD1 Upgrading Nui Mot Reservoir's canal system  43/2016/BQL-HDXL dated: 08/12/2016 completion date: 20/12/2018	Upgrading Nui Mot 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	+ Name: joint venture: Viet Nam 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"	8/12/2016	13/3/2017	Mr Nguyen Tan Vinh	Mr Le Thanh Truc / Thien An Limited Join Stock Company	Mr Hoang Van Lam & Mr Pham Minh Nghia	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Completed: 7.83%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
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"	15/12/2016	25/12/2016	Mr Nguyen Tan Vinh	Ms Ho Thi Thanh Tung / Irrigation- Hydropower Construction Consultant Join Stock Company	Mr Dang Thanh Tin	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Completed: 22.14%</li> </ul>
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 ( Cty TNHH Phuong Dong ) + Address: " No. 65, Phan Dinh Phung street, Pquy Nhon city, Binh Dinh province"	15/12/2016	25/12/2016	Mr Nguyen Tan Vinh	Ms Ho Thi Thanh Tung / Irrigation- Hydropower Construction Consultant Join Stock Company	Mr Nguyen Phuoc Nuong	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date,</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
										time and location ▪ Completed: 22.14%
	Phu Yen									
22	Phu Yen	PY02 Upgrading road and sluice of An Cu - An Hiep - An Hoa 10/HĐXL/PY- 02 dated:12/9/201 6 completion date: 5/2018	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 Construct ion & investme nt Consulta nt Join Stock Company	Ms Mai Thi Phuon g /	<ul style="list-style-type: none"> <li>▪ On going</li> <li>▪ CEMP was prepared by contractors and approved PPMU</li> <li>▪ The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date</li> <li>▪ Contractor weekly EMP Reports need to bind as a volume</li> <li>▪ Completed : 33%</li> </ul>
23	Phu yen	PY04 Upgrading irrigated canal of Dong Tron reservoir's irrigation system  08/HDXL/PY- 04 dated: 16/12/2016	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 Construct ion Consulta nt Join Stock	Mr Hoang Ngoc Thach	<ul style="list-style-type: none"> <li>▪ On going</li> <li>▪ CEMP was prepared by contractors and approved PPMU</li> <li>▪ The weekly, monthly, quarterly environmental safeguard monitoring</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
		completion date: 20/10/2018						Company & Thien Y Design Consulta nt Limited stock Company		reports by contractors, CSCs, PPMU is more detail assessed with explanation & reflection on the issues arise, date, time and location ▪ Contractor weekly EMP Reports need to bind as a volume ▪ Completed : 28%
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 Develop ment Investme nt Join Stock Company	Mr Ngo Tuan Hung	▪ 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 ▪ Contractor weekly EMP Reports need to bind as a volume

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Comment Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										<ul style="list-style-type: none"> <li>Completed : 19%</li> </ul>
	Phu yen	PY1 Consolidate main canal and branch canals of Dong Cam irrigation system 10/HĐXL/LÔ1-PY-01 dated: 01/03/2017 completion date: 01/2019	Consolidate main canal and branch canals of Dong Cam irrigation scheme Lot 1: Consolidate the southern 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 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"	01/03/2017	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 Nguyen Dinh Be	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Contractor weekly EMP Reports need to bind as a volume</li> <li>Completed : 10%</li> </ul>
	Phú Yên	PY1 Consolidate main canal and branch canals of Dong Cam irrigation system 11/HĐXL/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	Mr Le Quang Sang	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
								Join Stock Company		contractors, CSCs, PPMU is more detail assessed with explanation & reflection on the issues arise, date, time and location ▪ Contractor weekly EMP Reports need to bind as a volume ▪ Completed : 10%
	Hue									
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/ Consulta nt & water resources technical developm ent join stock Company	Mr Phan Thanh Hoan	<ul style="list-style-type: none"> <li>▪ On going</li> <li>▪ CEMP was prepared by contractors and approved PPMU</li> <li>▪ The weekly, monthly quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>▪ Contractor weekly EMP Reports are bound by one</li> </ul>



No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										<ul style="list-style-type: none"> <li>volume Completed : 12%</li> </ul>
	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"	15/04/2016	24/04/2017	Mr Diep Minh Phong	Mr Luong Tran Nhat Chinh / Thua Thien-Hue Construction Consultant joint stock Company	Mr Pham Trung Quan	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring reports by contractors, CSCs, PPMU is more detail assessed with explanation &amp; reflection on the issues arise, date, time and location</li> <li>Contractor weekly EMP Reports are bound by one volume</li> <li>Completed : 12%</li> </ul>
	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 Hoa city, Thanh Hoa province"	28/03/2017	5/4/2017	Mr Diep Minh Phong	Ms Truong Nguyen Quynh Tram/ Joint Venture of Development Investment &	Mr Le Gia Loi	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The weekly, monthly, quarterly environmental safeguard monitoring</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commen cement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contra ct	
								developm ent infrastruct ure and Consulta nt Join Stock Company and Construct ion procurem ent consultan t limited stock Company		reports by contractors, CSCs, PPMU is more detail assessed with explanation & reflection on the issues arise, date, time and location ▪ Contractor weekly EMP Reports are bound by one volume ▪ Completed : 8%
	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 Xây dựng và 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 Construct ion Consulta nt join stock Company	Mr Tran Van Dong	▪ 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 ▪ Contractor weekly EMP Reports are bound by one volume

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
										<ul style="list-style-type: none"> <li>Completed : 4%</li> </ul>
	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 ward, Vinh city, Nghe An province"	15/11/2016	23/11/2016	Mr Nguyen Hong Son	Mr Nguyen Van Tan/ Vinaxim Construction Investment & Consultant Joint Stock Company	Mr Nguyen Van Su	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 30%</li> </ul>
27	Ha Tinh	HT4 Upgrading irrigation system, rural road and market in 5 flooded communes of Duc Tho 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/ Joint Venture of 468 Construction Consultant Joint Stock Company and Infrastructure Construction Consultant Joint	Mr Le Xuan Su	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 45%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
								Stock Company		
	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 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"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 45%</li> </ul>
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"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved</li> <li>Completed : 32%</li> </ul>

No	Province	Project title, Contract No., contract	Contract Description	Contractors (name & address)	Contract Signing Date	Commencement Date	Environmental Monitoring Staff of PPMU /CSC/Contractor			Remarks
							PPMU	CSC	Contract	
30	Ha Tinh	HT5 Upgrading 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	Upgrading irrigation system of 3 Communes, Thach Ha District: Repairing and upgrading the irrigation system of 3 south-western communes of Thach Ha district	+ Name: Joint venture 412 construction JSC 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 xuất 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"	8/11/2016	25/11/2016	Mr Nguyen Hong Son	Mr Nguyen Ngoc Thach/ Join Venture of Civil work & foundation handling join stock company and DELTA design investigation join stock company stock	Mr Nguyen Tien Lech	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved <ul style="list-style-type: none"> <li>Completed : 20%</li> </ul> </li> </ul>
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 street, 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 Joint Stock Company	Mr Nguyen Van Thong	<ul style="list-style-type: none"> <li>On going</li> <li>CEMP was prepared by contractors and approved PPMU</li> <li>The environmental safeguard monitoring report by SCS is simply assessed, should be improved <ul style="list-style-type: none"> <li>Completed : 5%</li> </ul> </li> </ul>

## Environmental Reporting System

Table 3 Environmental Reporting System

Project Phase	Type of Report	Frequency	Responsibility	Submitted To Whom
<b>Construction</b>	<b>Site Environmental Performance Report</b> indicating compliance with Mitigation Measures	Weekly	Construction Contractor (CC)	CSC
	<b>Site Environmental Performance Report</b> indicating compliance with Site EMP and monitoring results	Monthly	Construction supervision consultant (CSC)	PPMU
	<b>EMP Compliance Report</b> indicating compliance with subproject EMP and monitoring results	Quarterly	PPMU	CPMU
	<b>EMP Compliance Report</b> indicating compliance with subproject EMP and monitoring results	Bi-annually or twice during construction depending on construction duration	CPMU	ADB
	<b>Subproject Environmental Report</b> indicating overall subproject environmental performance and EMP compliance	At completion of subproject	CPMU	ADB
<b>Operation</b>	<b>EMP Compliance Report: Operation</b> 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

## b. Capacity Building during report period

The relevant stakeholders played roles in 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.

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 Table 4

Table 4 The training courses on EMP implementation capacity building

Date	Time	Venue	Content of Training Course	Number of participants
26 Sept 2016	1.30 - 5.00 pm	Binh Dinh PPMU Office	✓ Guidelines on environmental regulation compliance, making of monthly report of the compliance for the Construction Contractors	Environment staff of the contractors, and supervision consultants PPMU staff in charge of environment: <i>Total : 16 participants</i>
28 Sept 2016	8,00 – 12.00 am	Phu Yen PPMU Office	✓ Instructions to implement environmental supervision at site and prepare environmental report to Construction supervision consultant	Environment staff of the contractors, and supervision consultants PPMU staff in charge of environment <i>Total : 7 participants</i>
10 Oct 2016	1.30 - 5.00 pm	Ninh Thuan PPMU Office	✓ Guidelines on making quarterly environment report for PPMU staff and provision of environment supervision data to make bi-annual environmental report	Environment staff of the contractors, and supervision consultants PPMU staff in charge of environment <i>Total : 15 participants</i>
12 Oct 2016	8.00- 12.00 am	Binh Thuan Office		Environment staff of the contractors, and supervision consultants PPMU staff in charge of environment <i>Total : 14 participants</i>
2 Mar		Ha Tinh		Environment staff of the

2017		PPMU Office		contractors, and supervision consultants PPMU staff in charge of environment Total : 17 participants
19 Apr 2017	8.00-11.00 am	Thua Thien – Hue PPMU Office		Environment staff of the contractors, and supervision consultants PPMU staff in charge of environment Total : 12 participants

### c. Environmental Performances

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

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. 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>		<i>Performance Indicator</i>							Overall Performance To-Date (Average)
			<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	
	Name	No. of Active Contracts	Design and Preparations	Worker Provisions	Biodiversity	Public Consultation/ Grievance	Community Values / Safety	Hydrology/ Water Pollution	Project Completion	
1	Ha Tinh	5	80	86	100	100	100	70	Not completed all	89.33
2	TT Hue	3	100	100	100	100	70	90	Not completed all	93.33
3	Binh Dinh	6	100	92.86	100	100	100	100	Not completed all	98.81
4	Phu Yen	4	80	85.00	80	100	70	80	Not completed all	82.50
5	Ninh Thuan	0							completed	
6	Binh Thuan	4	90	83.33	100	100	70	70	Not completed all	85.56

**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.

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

**Comments:**

Most of Performance indicators of 25 packages of 05 Provinces (Ninh Thuan Province's Packages is completed since November 2016) reached 80.0 -100 % with average value is 85.83-98.81%. It means the contractors mostly complied with proposed mitigation measures were described Environmental Performance Specifications that Standardized mitigation measures were distilled from the IEE documentation. Environmental performance indicator results by province is evaluated as bellow:

*Design & Preparation 's indicator:* all packages of 05 project provinces reached 80-100 %. 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 Ha Tinh (Rac river canal system subproject) and 3 subprojects in Phu Yen (Dong Cam irrigation canal system subproject, Dong Tron irrigation canal system subproject , Upgrading road and sluice of An Cu – An Hiệp - An Hòa Subproject) need to make changes in the design to avoid flooding to farms as well as to improve irrigation efficiency (Ha Tinh & Phu Yen PPMU received the request from Commune People Committees).

*Worker provision's indicator* All packages in Hue Province reached 100%, 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; have onsite first aid kits along with instructions for use, and personnel trained in basic first aid emergency response measures, provided safety equipment to workers, camps equipped with adequate water supply, sanitary toilets, washing facilities and facilities for waste collection and However, this indicator reached only 83.33-92.86 % for packages in Ha Tinh, Binh Dinh, Phu Yen & Binh Thuan Province due to the contractors did not carried out an awareness program for communicable diseases/HIV-AIDS, providing safety clothes & helmet to workers not fully described in Deign & Preparation's indicator,

*Biodiversity indicator:* All packages in Ha Tinh, Binh Thuan, Binh Dinh, Thua Thien Hue Province reached 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 this indicator reached only 80% for packages in Phu Yen Province due to contractors did not implemented fully mitigation measures to avoid adverse effects on flow of natural streams and water quality described in Biodiversity indicator.

*Public Consultation/Grievance's indicator:* All packages of Ha Tinh, Thua Thien Hue, Binh Dinh, Binh Thuan, Hue project 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 in Ha Tinh, Binh Dinh Province reach 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. Value of this indicators of Binh Thuan, Phu Yen, Thua Thien Hue Province reached only 70 % due to the contractors were not responsible for regular spraying of roadway surfaces and sites under construction in areas accessed by the public.

*Hydrology/Water Pollution's indicator:* All packages in Binh Dinh Province reached 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. Value of this indicator of Ha Tinh, Thua Thien Hue, Phu Yen, Binh Thuan reached 70- 90% due to some package storing oil, fuel in unappropriated storage

*Project Completion's indicator:* this indicator is assessed for two packages in Ninh Thuan due to these packages completed in November 2016 and this indicator reached 100%. It shows that all construction debris, tree cuttings, excess dirt, rubble and scrap been removed from the construction zone; all points of access (drives, walks) and utilities (water supply, power, communications) to public and private property been restored to original condition; and all complaints by the local community and individuals been resolved by the Contractor, design consultant & Ninh Thuan PPMU (see Item IV Performance follow up - Implementation status from pervious action plan)

## **c2 Monitoring results compared against previously established benchmarks and compliance status**

### **Performance Indicator Results for the IRDSPCP – Additional financing**

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 **93.57%** 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**

<i>Performance Indicator</i>	<i>Score (all provinces)</i>
1. Design and Preparations	90.00
2. Worker Provisions	89.44
3. Biodiversity	96.00
4. Public Consultation/Grievance	100
5. Community Values / Safety	82.00
6. Hydrology/Water Pollution	82.00
7. Project Completion	Not completed all
Average:	89.91

The overall environmental performance on IRDSPCP–Additional financing\_subprojects currently underway is **good**

## **IV. PERFORMANCE FOLLOW UP**

### **a. Implementation status from pervious actions plan**

#### **Environmental Action Plan ( June-December 2016)**

<b>Outstanding issues</b>	<b>Action required</b>	<b>By whom</b>	<b>By when</b>	<b>Implementation Status</b>
Delay in sending IEEs approved by CPMU for disclosure	Send ADB the IEEs, which were approved by CPMU for disclosure	CPMU	September, 2016	Implemented completely (September 2016)
Environmental monitoring tasks will be included into CSC	Prepare TOR for environmental supervision consultant and include it into the bidding documents of CSC	PPMUs	During selection and mobilization	implemented
	Provide guidance and monitor the implementation	LIC	During selection and	Implemented (Phu Yen, Binh

Outstanding issues	Action required	By whom	By when	Implementation Status
			mobilization	Dinh: 26 -28 Sep 2016; Ninh Thuan, Binh Thuan: 10-12 Oct 2016; Ha Tinh: 1-3 Mar 2017; Hue: 19 Apr 2017)
Training to relevant stakeholders in EMP implementation	Provide training for EMP implementation, monitoring and report system for PPMU and CSC	LIC	At the early time of construction phase	Implemented (Phu Yen, Binh Dinh: 26 -28 Sep 2016; Ninh Thuan, Binh Thuan: 10-12 Oct 2016; Ha Tinh: 1-3 Mar 2017; Hue: 19 Apr 2017 )
	Provide training for EMP implementation, monitoring and report system for contractors	LIC	At the early time of construction phase	

#### Environmental Action Plan ( Jan – Jun 2017)

Outstanding issues	Action required	By whom	By when	Implementation Status
Additional subproject of Construction of An_____Hai commune irrigation system in Ninh Thuan province	<ul style="list-style-type: none"> <li>- Conduct environmental screening to follow the specific guidance on environmental assessment as stated in the Environmental Assessment Review Framework (EARF) of the project, and categorized as Category B of ADB's SPS;</li> <li>- Prepare IEE report, submit to ADB for approval.</li> </ul>	CPMU and LIC	During new subprojects selection and preparation	<p>Implemented completely (submitted to ADB in the end of May 2017)</p> <p>Not completed (Public consultation on Environment, resettlement &amp; gender was carried out by LIC in May 2017)</p>
Inadequate performance of internal	- More capacity strengthening need to be provided for all PPMUs	CPMU LIC	As soon as possible	implemented

Outstanding issues	Action required	By whom	By when	Implementation Status
environmental monitoring system	and CSC to enhance skill and knowledge;			
	<ul style="list-style-type: none"> <li>- Prepare and approve Contractor's environmental management plans (CEMP) for all on-going subprojects;</li> <li>- CEMPs need to be prepared by contractors and approved PPMUs prior to the civil work commenced for all remain subprojects.</li> <li>- Provide technical guidance and provide CEMP form</li> </ul>	CSC, contractors and PPMUs of subproject in Binh Dinh, Phu Yen, and Ninh Thuan All contractors and all PPMU CPMU and LIC	Immediately  Before starting civil works	Implemented (CEPMs of all subprojects were prepared by the contractors & approved by PPMUs in Ha Tinh, Binh Thuan, Ninh Thuan, Phu Yen, Binh Dinh & Hue)
Submission of semi-annual environmental monitoring report	<ul style="list-style-type: none"> <li>- Prepare semi-annual environmental monitoring report for period of June to December 2016 and submit to ADB for disclosure in January 2017</li> </ul>	CPMU, LIC	As it is in due	Implemented <ul style="list-style-type: none"> <li>▪ LIC submitted to CPMU : 28 Feb 2017</li> <li>▪ CPMU submitted to ADB 2 Mar 2017</li> </ul>
Inadequate drainage design of Upgrading Lai Giang Dam's primary canal Subproject in Binh Dinh province	<ul style="list-style-type: none"> <li>- Conduct sufficient technical assessment of 11 drainage culverts, and 3 crossing bridges;</li> <li>- Provided necessary technical adjustments to avoid flooding for 12 ha of cultivation area and affect to 600 households in Dien Duc 3 village of Hoai Tan commune;</li> <li>- Supervision performance of PPMU, technical design and CSC performance</li> </ul>	Binh Dinh PPMU, Detail design consultant and CSC  CPMU and Technical consultants of LIC and CSBs	Immediately       As it is in due	Implemented <ul style="list-style-type: none"> <li>▪ All drainage culverts &amp; crossing bridges of Lai Giang Subproject were implemented as requested community</li> <li>▪ Drainage culverts was adjusted by design consultant &amp; Binh Dinh PPMU to avoid</li> </ul>

Outstanding issues	Action required	By whom	By when	Implementation Status
				flooding for cultivation area (Decision No 1473/QĐ-UBND on 27 Apr 2017 -Binh Dinh PPC on approval on drawing design-adjusted components of Lai Giang Dam's primary canal Subproject )
Impacts on piped-water supply system in An Cu – An Hiep - An Hoa Subproject in Phu Yen province	<ul style="list-style-type: none"> <li>- Provide alternative pipelines to ensure sufficient water supply for local people in Tan Hoa village</li> <li>- Supervision of</li> <li>- contractors' performance</li> </ul>	Contractor  Phu Yen PPMU, CSC and CSBs	Immediately	Implemented  The contractor provided alternative pipelines to ensure sufficient water supply for local people in Tan Hoa village
Several inter-village roads will be used for transporting materials in An Cu – An Hiep - An Hoa Subproject in Phu Yen province	<ul style="list-style-type: none"> <li>- Obtain agreements with local authorities prior to using of all local facilities and provide compensation for any damage;</li> <li>- Supervision of contractors performance</li> </ul>		As it is in due	Implemented Contractor obtained agreement with An Hoa CPC to using of village roads for material transportation
Inadequate drainage design of An Cu – An Hiep - An Hoa Subproject in Phu Yen province	<ul style="list-style-type: none"> <li>- Conduct sufficient technical assessment for whole subproject;</li> <li>- Provided further adjustments to avoid flooding, specially section on Tan Hoa village of An Hoa commune;</li> <li>- Conduct public consultation during conducting technical</li> </ul>	Phu Yen PPMU, Detail design consultant and CSC CPMU and Technical consultants of LIC and CSBs of	Immediately	Implemented Drainage culverts was added by design consultant & Phu Yen PPMU to avoid flooding for section on Tan Hoa village-

<b>Outstanding issues</b>	<b>Action required</b>	<b>By whom</b>	<b>By when</b>	<b>Implementation Status</b>
	<p>assessment</p> <ul style="list-style-type: none"> <li>- Supervision performance of PPMU, technical design and CSC performance</li> </ul>	An Cu, An Hiep, An Hoa commune		<p>An Hoa Commune</p> <p>(from Technical handling minute with signature of Phu Yen PPMU, Design Consultant, CSC, Contractor, CPCs of An Cu, An Hiep, An Hoa Communes, CSBs on 30 Mar 2017)</p>
No subproject information was disclosed to local people and authorities of An Cu – An Hiep - An Hoa Subproject in Phu Yen province	<ul style="list-style-type: none"> <li>- Send the subproject documents (design document, drawn, approved IEE) to local authorities and disclose to local people;</li> <li>- Supervision of PPMU performance</li> </ul>	Phu Yen PPMU, CPMU and Technical consultants of LIC	Immediately	Implemented
Inadequate drainage design and 6 cross canal culverts in Cham primary canal of the south primary canal of Nha Trinh - Lam Cam irrigation system subproject, Ninh Thuan province	<ul style="list-style-type: none"> <li>- Conduct sufficient technical assessment of drainage culverts, and 6 crossing canal culverts;</li> <li>- Provided further technical adjustments to avoid flooding of 10ha cultivation areas in Hoai Nhon village, Phuoc Hau commune;</li> <li>- Supervision performance of PPMU, technical design and CSC performance</li> </ul>	<p>Ninh Thuan PPMU, Detail design consultant and CSC</p> <p>CPMU and Technical consultants of LIC and CSBs</p>	Before handing over to operation unit	<p>Completed subproject Drainage culverts adjustment is designing &amp; to be implemented from local fund (from Mr Toan – Deputy Director of Ninh Thuan PPMU)</p>



Outstanding issues	Action required	By whom	By when	Implementation Status
Inadequate number and location of water intakes on Upgrading section of North primary canal of Nha Trinh-Lam Cam irrigation system subproject– Ninh Thuan province	<ul style="list-style-type: none"> <li>- Conduct sufficient technical assessment of water intake on the canal section passing Ba De paddy field;</li> <li>- Provided further technical adjustments to ensure sufficient water supply for 4 ha of cultivation activities;</li> <li>- Supervision performance of PPMU, technical design and CSC performance</li> <li>- CEMPs were not prepared and approved</li> <li>- Inadequate technical specifications and location of water intakes and drainage culverts cause lack of irrigated water and following for several cultivation areas along the canals</li> </ul>	<p>Ninh Thuan PPMU, Detail design consultant and CSC</p> <p>CPMU and Technical consultants of LIC and CSBs</p>	As soon as possible	<p><i>Completed Subproject</i></p> <p>Adjustment of water intakes and drainage culverts location to ensure sufficient water supply for Ba De paddy field &amp; 4 ha of cultivation land are implemented (Decision No 186/QD on 12 Apr 2017 - SNNPTNT on approval on drawing design-adjusted component of North primary Canal Subproject )</p> <p>Completed time of adjusted items : May 2017</p>
Inappropriate excavated soil in Upgrading Du Du Reservoir Subproject, Binh Thuan province	<ul style="list-style-type: none"> <li>- Collect and transport all excavated soil to disposal areas;</li> <li>- Levelling road surface to avoid traffic accident and obstruct;</li> <li>- Consulted with local people since construction operation and maintenance road passing Minh Tien village to ensure traveling condition for local people</li> </ul>	Contractor, CSC and PPMU Binh Thuan	<p>Immediately</p> <p>As it is in due</p>	Implemented

**b. Corrective Action Plan proposed for this report period**

**Environmental Corrective Action Plan**  
(as 30 June 2017)

Required Action	Target Date	Responsibility for Implementation	Responsibility for Monitoring
<b>GENERAL ISSUES</b>			
<b>1. Environmental assessment for new sub-projects</b>			
a. LIC environment consultant to conduct adequate survey, prepare subproject categorization including REA and subproject description and submit to ADB for approval	June 2017	LIC Consultant Environment	APMB
b. LIC environment consultant to carry out IEEs for 1 new subproject to follow EARF and submit either to APMB or ADB to follow EARF	July 2017	LIC Consultant Environment	APMB/ADB
c. Update EMP for subprojects with additional construction works (extension using remaining funds)	July-August 2017	LIC Consultant Environment	APMB/ADB
<b>2. Semiannual environment monitoring report</b>			
a. CPMU, with the support from LIC Environment Consultant to submit environment semi-annual monitoring report, Jan- Jun 2017 to ADB	31 July 2017	CPMU	ADB
<b>3. Monitoring of site EMP implementation.</b>			
a. CSCs with the support from environment consultant, to improve supervision of contractor's EMP implementation: <ul style="list-style-type: none"> <li>Providing detail status of contractor's EMP implementation and requested action with the timeline for implementation in construction daily records</li> <li>Tracking the requested action implementation</li> </ul>	Continuous from June 2017	CSCs/Environment Consultant	PPMUs/ APMB
b. Community Supervision Boards improve reporting on environment safeguard issues and gathering comments from communities on construction work		CSB members/Environment Consultant	PPMUs/ APMB
<b>4. Community safety issue caused by canal and road construction work in the residential area</b>			
The contractor Dong Cam subproject to install fence and warning signal on construction site of the road, along Tan My canal in Hoa Phong Commune, Phu Yen Province avoiding traffic accident, especially in rainy days.	10 July 2017	Lot 1, Dong Cam canal's contractor	Phu Yen PPMU

<b><i>Improper excavated soil management</i></b>			
a. The contractor Dong Cam subproject, Lot 1, to remove excavated soil in front of Health Care Center, Hoa Tan Tay Commune.	10 July 2017	Lot 1, Dong Cam canal's contractor	Phu Yen PPMU
b. The contractor of East – West Hoi Tom Canal to remove excavated soil dumped at the adjacent farm	10 July 2017	Contractor	Thua Thien Hue PPMU
<b><i>5. Improper waste management</i></b>			
c. The Contractor Rac river canal subproject to store oil and dispose empty oil drums in appropriate storage	15 July 2017	Rac River canal subproject contractor	Ha Tinh PPMU
d. The Contractor Du Du reservoir canal subproject to store oil and dispose empty oil drums in appropriate storage	15 July 2017	Du Du reservoir canal subproject contractor	Binh Thuan PPMU
e. The contractor Quao river canal subproject to store oil and dispose empty oil drums in appropriate storage	15 July 2017	Quao river canal subproject contractor	Binh Thuan PPMU
f. The contractor			
g. The contractor Dong Cam subproject, Lot 1, to remove solid waste in canal N 8.2, Hoa Tan Tay Commune.	15 July 2017	Lot 1, Dong Cam canal's contractor	Phu Yen PPMU
<b><i>6. Drainage and irrigation issues caused by lack of adequate design</i></b>			
a. Phu Yen PPMU, with the support from design consultant, to design and construct adequate drainage pipes, avoiding flood for farms in Dong Cam subproject	Quarter 3, 2017	Phu Yen PPMU Design consultant of Dong Cam Subproject/ Phu Yen PPMU	APMB
b. Phu Yen PPMU, with the support from design consultant, to design and construct drainage system and salinity prevention sluice in An Cu, An Hiep and An Hoa Subproject		Design consultant of An Cu, An Hiep and An Hoa Subproject/ Phu Yen PPMU	APMB
c. Phu Yen PPMU, with the support from design consultant, to design and construct water intake, drainage pipe avoiding flood for farms in Dong Tron subproject		Design consultant of Dong Tron subproject/Phu Yen PPMU	APMB
d. Ha Tinh PPMU, with the support from design consultant, to design and construct irrigation culverts in Rac river canal system subproject		Design consultant of Rac River canal system subproject/Ha Tinh PPMU	APMB

## GRIEVANCE REDRESS MECHANISM

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.

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

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 7 (Incidence of Complaints by Province). The construction contractor is required to address all reasonable complaints voiced by the community.

Table 7: Incidence of Complaints by Province

<u>Province</u>	<u>Number of Complaints</u>
Phu Yen	3 (Dong Cam, An Cu-An Hiep-An Hoa, Dong Tron subproject)
Binh Dinh	0
Ninh Thuan	2 ( in 2016)
Binh Thuan	1
Ha Tinh	2
Hue	0

Remark:

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 have been 8 complaints for those of the 4 PPMUs of Phu Yen, Ninh Thuan, Binh Thuan and Ha Tinh

The adjustments required and addition of components from January to June 2017 are described in table 8

Table 8 Adjustments and addition of intake structures and drainage culverts

Province	Requirement from the community	Time	Solved or not? (Yes/No)	Remarks (Decision /Technical handling minute)
Ha Tinh	Changing the location of culvert of Rac River SP to improve irrigation efficiency		Not yet	
Binh Thuan	Adding/ changing the location of intake culvert of Du Du Reservoir SP to improve irrigation efficiency		Yes	Official dispatch of Binh Thuan Province's Irrigation Work Exploitation Company No 755/KTCTTL-KT on adjustment & adding intake culvert of Du Du Reservoir Subproject to Binh Thuan DARD & PPMU, dated 22 September 2016 ( local people / Ham Lien & Ham Cuong CPC sent request to Binh Thuan IWEK )
Ninh Thuan	Changing the location of irrigation culvert and drainage culvert of Primary canal of Nha Trinh-Lam Cam irrigation system subproject– Ninh Thuan province”	2016	Yes	Decision No 186/QD - SNNPTNT on approval on drawing design-adjusted component of North primary Canal Subproject )  Completed : May 2017
Ninh Thuan	Providing technical adjustments to avoid flooding of 10ha cultivation areas in Hoai Nhon village, Phuoc Hau commune; Cham primary canal of the south primary canal of Nha Trinh - Lam Cam irrigation system subproject, Ninh Thuan province	2016	Yes	Drainage culverts adjustment is designing & to be implemented from local fund ( from Mr Toan – Deputy Director of Ninh Thuan PPMU)
Phú Yên	Providing construct drainage system and salinity prevention sluice in An Cu, An Hiep and An Hoa Subproject	2016	Yes	Technical handling minutes with signature of Phu Yen PPMU, Design Consultant, CSC,

				Contractor, CPCs of An Cu, An Hiep, An Hoa Communes, Tuy An District ,CSBs on 30 Mar 2017)
Phu Yen	Providing construct adequate drainage pipes to avoid flood for farms in Dong Cam subproject		Not yet	
Phu Yen	Providing construct water intake, drainage pipe avoiding flood for farms in Dong Tron subproject	2 Jun 2017	Yes	Technical handling minute with signature of Phu Yen PPMU, Design Consultant, CSC, Contractor, CPCs of An Nghiep Communes – Tuy An District CSB on 12June 2017)
Binh Dinh	Conducting meaningful technical assessment of 11 drainage culverts, and 3 crossing bridges and provide necessary technical adjustments to avoid flooding for 12 ha of cultivation area that affect 600 households in Dien Duc 3 village of Hoai Tan commune of Lai Giang Subproject	Dec 2016	Yes	Decision No 1473/QD-UBND on 27 Apr 2017 - Binh Dinh PPC on approval on drawing design-adjusted components of Lai Giang Dam's primary canal Subproject
Hue	No required actions from communities			

In addition, there are some comments from the CSBs as follows:

- The public consultation have been done before construction implementation
- The contractors have complied with environment mitigation measures such as putting construction signs, covering materials by canvas during transport, cleaning construction wastes, avoiding impacts on the travelling of the people, however, watering should be done more frequently, especially in sunny and dry days.
- Water cutting schedules was informed to farmers and suitable for agricultural production
- There were requirements of changing and adding the location of water intake culverts have been met by the Project owners.

Table 9. List of the environmental monitoring report of the Community Supervision Boards

Of the environmental variables that are monitored by CSBs the top variables in rank order found to be most unattended are shown in Table 9 (Rank Order of Most Common Performance Shortfalls).

Rank order of most common performance shortfalls

<u>Monitoring Variable</u>	<u>Number of Occurrences</u>	<u>Subproject Name /Province</u>
1.First aid kits readily available to workers at the job site along with instructions for use	11	Song Rac, Duc Tho, Loc Ha Subproject in Ha Tinh , Hoi Tom Subproject in Thua Thien -Hue , Dong Cam, An Cu-An Hiep-An Hoa in Phu Yen, My Thuan, Nhon Tho-Nhon Khanh in Binh Dinh , Song Quao, Ba Bau in Binh Thuan
2.Contractor or Inspector from the Department of Health undertaken an awareness program for communicable diseases/HIV-AIDS	10	Song Rac, Duc Tho, Loc Ha Subproject in Ha Tinh , Hoi Tom Subproject in Thua Thien -Hue , Dong Cam, An Cu-An Hiep-An Hoa in Phu Yen, My Thuan, Nhon Tho-Nhon Khanh in Binh Dinh , Song Quao, Ba Bau in Binh Thuan
3.Is dust suppressed by watering exposed surfaces?	7	Dong Cam , An Cu-An Hiep-An Hoa, Dong Tron Reservoir subprojects in Phu Yen & Hoi Tom , Nui Mot reservoir subproject in Thua Thien –Hue, Song Quao, Ba Bau subproject in Binh Thuan
4.Oil, fuel and chemicals stored in enclosed areas (dyked or covered)?	5	Song Rac subproject in Ha Tinh, Dai Giang ubproject in Thua Thien-Hue , Dong Tron subproject in Phu Yen, Song Quao, Du Du subproject in Binh Thuan
5.The contractor provided safety equipment (hard hats, ear plugs, dust masks, safety glasses) to workers and training in use?	4	Song Rac subproject in Ha Tinh, Dong Cam, An Cu-An Hiep-An Hoa subproject in Phu Yen, Song Quao , Ba Bau subproject in Binh Thuan
6.Roads, embankments, irrigation works and coastal protection: does the design provide cross drainage to prevent flooding?	4	Dong Cam , An Cu-An Hiep-An Hoa, Dong Tron Reservoir subprojects in Phu Yen & Hoi Tom subproject in Thua Thien - Hue

7.Does the subproject design meet applicable engineering safety and public health standards?	3	Lot1 Dong Cam Subproject (2) in Phu Yen , Lai Giang subproject in Binh Dinh
8.Construction camps equipped with sanitary toilets, washing facilities and facilities for waste collection and storage	3	Duc Tho, Ho Dam and Tiem River subproject in Ha Tinh, Song Quao subproject in Binh Thuan (Only no rubbish bin in worker camp)

## V. CONCLUSION

### a. Conclusion

In general, all contractors of 24 construction packages of 24 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.

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:

- The contractor of Dong Cam-Lot 1 Subproject should install temporally safeguard fence and warning sign boards where the subprojects construction has been initiated but for some reason temporarily stopped or where some excavation in preparation of other construction components has been done to avoid traffic safety risk for community;
- The contractor of Dong Cam-Lot 1 and “East –West Hoi Tom Dike Subproject should remove excavated soil that has been dumped near the Health Care in Hoa Tan Tay –Phu Yen and adjacent to farms at “East-West Hoi Tom Dike “ Subproject to avoid pollution, risk for traffic and other negative effects to agricultural production.
- The contractors of Rac river canal subproject in Ha Tinh, Du Du reservoir & Quao river canal subproject in Binh Thuan are requested to store oil drums and empty oil drums in a suitable storage area to avoid oil leakage on the soil and water contamination.
- Watering exposed surfaces to mitigate dust pollution is not implemented regularly
- Contractors have not provided First aid kits to workers at job sites

### b. Recommendation:

- In addition to field monitoring, other field activities should include:
  - ❖ Record and review complaints from the community (both verbally and in writing), informing the PPMU to resolve related issues with the construction contractor.
  - ❖ People’s requirement on changing the location of water intakes, culvert gates should be included in the 2nd quarterly report of 2017



- ❖ Issues recommended by the ADB Mission in the December 2016 MTR that have been solved should be included in the 2nd report
  - ❖ 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.
- Environmental Monitoring Result from Community Supervision Board should be collected and combined with Environmental Compliance Monitoring from Environmental /Construction Supervision Consultant to evaluate and prepare Quarterly Provincial Compliance Report

## 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?			
<b>Score (1-10; 10 total)</b>			(%)

**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?			
<b>Score (11-16; 6 total)</b>			(%)

### **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: \_\_\_\_\_

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
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?			
<b>Score (17-21; 5 total)</b>			(%)

### **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: \_\_\_\_\_

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
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?			
<b>Score (22-23; 2 total)</b>			(%)

### **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: \_\_\_\_\_

	<u>Yes</u>	<u>No</u>	<u>Remarks</u>
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?			
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?			
<b>Score (24-35; 12 total)</b>			(%)

**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?			
<b>Score (36-43; 8 total)</b>			(%)

**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?			
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?			
<b>Score (44-50; 7 total)</b>			(%)

### Part C: Performance Tracking

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.

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

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<sup>1</sup> 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.

<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, calculated as  
$$(\text{elapsed time}/\text{total time}) \times 100 = \text{percent complete}$$
- 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 in March & June 2017

### a. In Ha Tinh, Binh Thuan, Phu Yen



Lot 1 :Repairing and upgrading irrigation and transportation works in Duc Tho district –at Duc Tho Commune ( 2 Mar 2017)



Rac river subproject –Km 4+000 ( 2 Mar 2017)



At Du Du Dam after upgraded



Canal N 29 - Du Du irrigation canal system



Dong Cam primary canal –at Km 0+857



Dong Cam branch canal – passing through Hoa Tan Tay Commune's Health Care Centre



**b. In Binh Dinh & Hue**



Canal N6 of Nui Mot Reservoir in Nam Tay Mot –Tan Nhon Commune-An Nhon District



Lai Giang main canal at Km 1+000



Lai Giang branch canal N2-1



Lai Giang branch canal N2-1 Km 2+500



Public consultation meeting at Hoa Tan Tay Commune – Dong Cam Subproject



At the site of Hoi Tom Subproject