

Environmental Monitoring Report

The first Environmental monitoring report
(June –December 2016)

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

CURRENCY EQUIVALENTS

(as of December 2016)

| | | |
|---------------|---|-----------------------|
| Currency unit | – | Vietnamese Dong (VND) |
| VND 1.00 | = | \$0.00004439 |
| \$1.00 | = | VND 22,530 |

ABBREVIATIONS

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

WEIGHTS AND MEASURES

| | | |
|-------------------|---|----------------------------|
| dB(A) | – | Decibel (weighted average) |
| ha | – | Hectare |
| kg/d | – | kilogram per day |
| km | – | Kilometer |
| km ² | – | square kilometer |
| m | – | Meter |
| m ² | – | square meter |
| m ³ | – | cubic meter |
| m ³ /d | – | cubic meters per day |
| m ³ /s | – | cubic meters per second |
| mg/m ³ | – | milligrams per cubic meter |
| mm | – | Millimeter |

NOTE

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

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the "terms of use" section of this website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

TABLE OF CONTENT

| | | |
|-------------|---|----|
| I. | INTRODUCTION | 5 |
| | a. Report Purpose and Rationale | 5 |
| | b. Project objective and background | 5 |
| II. | PROJECT IMPLEMENTATION PROGRESS (PHYSICAL PROGRESS OF THE PROJECT AND SUBPROJECTS) | 6 |
| | Subproject Status under construction | 6 |
| III. | SUMMARY OF ENVIRONMENT MONITORING RESULT OF PROJECT | 6 |
| | a. Institutional Responsibilities and Internal environmental management system | 6 |
| | b. Capacity Building during report period | 22 |
| | c. Environmental Performances | 23 |
| | c 1. Monitoring parameters/indicators and methods based on the monitoring plan/program previously agreed upon with ADB; | 23 |
| | c2 Monitoring results compared against previously established benchmarks and compliance status | 26 |
| IV. | PERFORMANCE FOLLOW UP | 27 |
| | a. Implementation status from pervious actions plan | 27 |
| | b. Actions proposed for this report period | 28 |
| V. | COMMUNITY COMPLAINTS | 31 |
| VI. | CONCLUSION | 33 |
| | a. Conclusion | 33 |
| | b. Recommendation | 33 |
| VII. | APPENDICES | 34 |

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.¹ 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).

To comply with “Environmental Assessment and review Framework “ (EARF) , Monitoring and reporting of environmental assessment process need to be undertaken to ensure that the procedures developed for IRDSPCP are being adequately implemented and to identify any modifications or corrective action that may be required to improve the efficiency of the procedures throughout the project implementation process. The monitoring of environmental management plan implementation will be incorporated into the overall project monitoring and evaluation (M&E) and reporting system. Environmental management plan implementation monitored at the province and central levels.

Reporting will take place on a 6-month basis. Each PPMU will report to the CPMU on the monitoring parameters contained in Annex 1., and the CPMU will consolidate these reports, together with the results of the central level monitoring for submission to the ADB.

Purpose of this report is providing information to the project owner on changes in the most important environmental impacts over the life of the subproject, so that corrective action can be taken. Important sources of information include community feedback and the supervising of certain indicators . During the life of the proposed Project, the findings of monitoring for each subproject will be summarized by each PPMU and sent to the CPMU for consolidation and reporting to the ADB.

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

The project impact is to improve livelihoods, incomes, and standards of living for the region's rural population through increased agricultural productivity, wider employment

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

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

Subproject Status under construction

Up to the end of December 2016, there are 9 subproject construction packages currently active, of which 01 subproject 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 | No. of Packages Started | No. of Packages Completed | No. of Packages Ongoing |
|-------|------------------------|-------------------------|---------------------------|-------------------------|
| 1 | Ha Tinh | 0 | 0 | 0 |
| 2 | TT Hue | 0 | 0 | 0 |
| 3 | Binh Dinh | 2 | 0 | 2 |
| 4 | Phu Yen | 1 | 0 | 1 |
| 5 | Ninh Thuan | 2 | 1 | 1 |
| 6 | Binh Thuan | 4 | 0 | 4 |
| Total | Whole the sub projects | 9 | 1 | 8 |

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

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...

Environmental compliance monitoring is carried out to test 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 high 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 5 provinces (Phu Yen, Binh Dinh, Ninh Thuan, Binh Thuan, Ha Tinh appointed officers/staffs to be in charge of environmental management, All packages of Hue Province are still not contract signing (see Table 2)

Table 2 Internal environmental management system of Rural Development Sector Project in the Central provinces-
Additional financing

| No | Province | 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 | 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 Nuyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU | Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Constructi on Consultant | Mr Dang Nang Triet | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Comment Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|------------|--|---|--|-----------------------|--------------|---|--|----------------------------------|----------|
| | | | | | | | PPMU | CSC | Contract | |
| 2 | Ninh Thuan | 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 Nuyen 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 | On going |
| 3 | Ninh Thuan | 03/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 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 Nuyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU | Mr Lam Vu Hung /Hung Thinh Limited Join Stock Company on Construction Consultant | Mr Le Van Ba & Mr Doan Duc Thanh | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|-------------------|--|--|---|-----------------------|-------------------|---|---|---------------------|-----------------|
| | | | | | | | PPMU | CSC | Contract | |
| 4 | Ninh Thuan | 04/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 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 Nuyen Luu Dan & Mr Pham Ba Luat/Ninh Thuan PPMU | Mr Nguyen Tan Thi/The Central-South Part Limited Join Stock Company | Mr Hoang Manh Thang | On going |
| 5 | Ninh Thuan | 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 Nuyen 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 | On going |
| | Binh Thuan | | | | | | | | | |

| No | Province | 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 | Binh Thuan | 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 Nguyen Hong Hiep | Ms Le Thi Dieu Hien | On going |
| 7 | Binh Thuan | 08/2016/HĐTC-DAMT-KVBS dated:09/6/2016 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 | Mr Nguyen Hong Hiep & | Mr Vu Hong Dao | On going |
| 8 | Binh Thuan | 10/2016/HĐTC-DAMT-KVBS dated:09/6/2016 completion date: 09/6/2017 | Upgrading Du Du reservoir, Ham Thuan Nam district : Construction of the whole subproject | + Name: Binh Thuan Infrastructure Development Construction Joint Stock Company + Address: "No 120, Tran Quy Cap Street, Duc Long Ward, Phan Thiet City, Binh Thuan Province" | 9/6/2016 | 23/6/2016 | Mr Nguyen Hong Truong | Mr Nguyen Hong Hiep & | Mr Do Duc Tuan | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|------------------|---|---|--|-----------------------|-------------------|--|---|---|-----------------|
| | | | | | | | PPMU | CSC | Contract | |
| 9 | Binh Thuan | 09/2016/HĐTC-DAMT-KVBS dated:09/6/2016 completion date: 09/7/2017 | 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 Part's Training & Applied Science | Mr Doan Xuan Phan | On going |
| 10 | Binh Thuan | 16/2016/HĐTC-DAMT-KVBS dated:28/9/2016 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 | 28/9/2016 | 17/10/2016 | Mr Nguyen Hong Truong | Mr Nguyen Hong Hiep | | On going |
| | Binh Dinh | | | | | | | | | |
| 11 | Binh Dinh | 26/2016/HĐXL dated:30/5/2016 completion date: 30/5/2018 | Upgrading Lai Giang Dam's primary canal Lot 1: Upgrading main canal and facilities from K15+934 to K19+248 and N4 canal from K0+000 to K1+529, and N2-1 canal from K0+000 to K8+376 | + Name: joint venture of Thanh Nhan Construction Company Limited and Do Thanh private business + Address: "No 293B, Ngo Gia Tu Street, Binh Dinh Ward, An Nhon town, Binh Binh Province" and "No. 39, Quang Trung Street, Tang Bat Ho town, Hoai An district, Binh Binh Province" | 30/5/2016 | 5/6/2016 | Mr Nguyen Tan Vinh | Mr Vo Anh Tu / Hoang Le Limited Join Stock Company on Construction Consultant | Mr Nguyen Van Trieu & Nguyen Vuong Quoc Bao | On going |
| 12 | Binh Dinh | 27/2016/HĐXL dated:30/5/2016 completion date: 30/5/2018 | Upgrading Lai Giang Dam's primary canal Lot 2: Upgrading N2 canal and facilities from K0+000 to K3+981 and from K4+964 to K11+648; and | + 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"; | 30/5/2016 | 5/6/2016 | Mr Nguyen Tan Vinh | Mr Nguyen Xuan Phi /Kieu Viet Limited Join Stock Company on Construction | Ms Le Thi Ninh | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|-----------|---|--|---|-----------------------|-------------------|--|--|--------------------------------|-----------------|
| | | | | | | | PPMU | CSC | Contract | |
| | | | N2A canal from K0+000 to K2+575 | "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" | | | | Consultant | | |
| 13 | Binh Dinh | 29/2016/HĐXL dated:13/6/2016 completion date: 20/6/2018 | Upgrading Van Phong canal system: Upgrading N24 canal and facilities; N24-1 canal; N24-1A canal; N24-2; N24-3 canal; N24-4 canal; N24-5 canal; N24-5A canal; N24-2-2 | + Name: joint venture of Tan Thanh Construction Company Limited and Dinh Phat Company Limited + Address: "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district, Binh Dinh Province" and "No 505, Tran Phu street, Binh Dinh ward, An Nhon Town, Binh Dinh Province" | 13/6/2016 | 20/6/2016 | Mr Nguyen Tan Vinh | Mr Cao Dinh Tan / An Thinh Limited Join Stock Company on Construction Consultant | ? | On going |
| 14 | Binh Dinh | 25/2016/BQL-HDXL dated: 28/11/2016 completion date: 12/2018 | Upgrading rural infrastructures in Nhon Tho – Nhon Khanh: 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 | | Mr Nguyen Tan Vinh | ? | Mr Vo Van Loi & Tran Cong Tham | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|-----------|--|---|---|-----------------------|-----------------------------|--|-----|----------|---------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| 15 | Binh Dinh | 46/2016/BQL-HDXL dated: 09/12/2016 completion date: 20/12/2018 | Upgrading rural infrastructures in Nhon Tho - Nhon Khanh: 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 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |
| 16 | Binh Dinh | 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 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |
| 17 | Binh Dinh | 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 | + 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 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|-----------|--|--|--|-----------------------|-----------------------------|--|-----|----------|---------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| | | | 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 | | | | | | | |
| 18 | Binh Dinh | 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 Investment Construction and Trading JSC and Tan Thanh Construction Co., Ltd + Address: " TT31 building, CT,B Apartment, Vinaconex 9 urban area, Km3 Lenin Street, Nghi Phu commune, Vinh city, Nghe An province" and "No 639, Nguyen Hue Street, Tuy Phuoc Town, Tuy Phuoc district , Binh Dinh Province" | 8/12/2016 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |
| 19 | Binh Dinh | 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 | 8/12/2016 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|----------------|--|--|---|-----------------------|-----------------------------|--|--------------------|-------------------|----------------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| | | | | province" | | | | | | |
| 20 | Binh Dinh | 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 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |
| 21 | Binh Dinh | 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 | Construction is not started | Mr Nguyen Tan Vinh | | | Not starting construction |
| | Phu Yen | | | | | | | | | |
| 22 | Phu Yen | 10/HDXL/PY-02 dated: 12/9/2016 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 | Ms Mai Thi Phuong | On going |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|----------------|---|---|--|-----------------------|-------------------|--|-----|----------|----------------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| 23 | Phu yen | 08/HDXL/PY-04 dated: 16/12/2016 completion date: 20/10/2018 | Upgrading irrigated canal of Dong Tron reservoir's irrigation system | + Name:Dong Son One Member Co., Ltd (Cty TNHH MTV Dong Son) + Address: " No. 96, Au Co street, Pleiku city, Gia Lai province" | 16/12/2016 | | | | | Not starting construction |
| 24 | Phu yen | 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" | 20/12/2016 | | | | | Not starting construction |
| | Hue | | | | | | | | | |
| 25 | Hue | 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" | 10/12/2016 | | Mr Diep Minh Phong | | | Not starting construction |
| | Ha Tinh | | | | | | | | | |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|----------|--|--|--|-----------------------|-----------------------------|--|-----|----------|---------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| 26 | Ha Tinh | 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 | Construction is not started | Mr Nguyen Hong Son | | | Not starting construction |
| 27 | Ha Tinh | 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: 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 | Construction is not started | Mr Nguyen Hong Son | | | Not starting construction |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Commencement Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|----------|---|---|---|-----------------------|-----------------------------|--|-----|----------|----------------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| 28 | Ha Tinh | 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: 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 | Construction is not started | Mr Nguyen Hong Son | | | Not starting construction |
| 29 | Ha Tinh | 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 | | Mr Nguyen Hong Son | | | Not starting construction |

| No | Province | Contract No., contract | Contract Description | Contractors (name & address) | Contract Signing Date | Comment Date | Environmental Monitoring Staff of PPMU /CSC/Contractor | | | Remarks |
|----|----------|--|--|---|-----------------------|--------------|--|-----|----------|----------------------------------|
| | | | | | | | PPMU | CSC | Contract | |
| 30 | Ha Tinh | 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 Construction and industrial production JSC No. 5 and Nhat Thai General Trading And Construction Co., Ltd (JV: Cty CP XD cong trinh 412 và Cty CP xay lap & san xuat cong nghiep so 5 và Cty TNHH XD & TM tong hop Nhat Thai) + Address: " No. 254, Ha Huy Tap street, Ha Tinh city, Ha Tinh province" and "No. 522, Nguyen Cong Tru street, Ha Tinh city, Ha Tinh Province" and "No. 02, lane 03, Xuan Dieu street, Ha Tinh city, Ha Tinh Province" | 8/11/2016 | | Mr Nguyen Hong Son | | | Not starting construction |
| 31 | Ha Tinh | 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: Repairing and upgrading the Loc Ha irrigation/drainage system | + Name: Joint venture Xuan Khiem Group JSC and Manh Linh Co., Ltd (JV: Cty CP tap doan Xuan Khiem & Cty TNHH Manh Linh) + Address: " Khanh Tan street, Ninh Khanh ward, Ninh Binh city, Ninh Binh province" and "No. 112, Hai Thuong Lan Ong sreet, Phuc Thanh ward, Ninh Binh city, Ninh Binh Province" | 7/11/2016 | | Mr Nguyen Hong Son | | | Not starting construction |

Environmental Reporting System

Table 3 describes the reporting system that will apply to environmental management
Environmental Reporting System

| Project Phase | Type of Report | Frequency | Responsibility | Submitted To Whom |
|----------------------|--|---|---|--------------------------|
| Construction | Site Environmental Performance Report indicating compliance with Mitigation Measures | Weekly | Construction Contractor (CC) | CSC |
| | Site Environmental Performance Report indicating compliance with Site EMP and monitoring results | Monthly | Construction supervision consultant (CSC) | PPMU |
| | EMP Compliance Report indicating compliance with subproject EMP and monitoring results | Quarterly | PPMU | CPMU |
| | EMP Compliance Report indicating compliance with subproject EMP and monitoring results | Bi-annually or twice during construction depending on construction duration | CPMU | ADB |
| | Subproject Environmental Report indicating overall subproject environmental performance and EMP compliance | At completion of subproject | CPMU | ADB |
| Operation | EMP Compliance Report: Operation indicating compliance with subproject EMP commitments during operation | 6 monthly for first two years of operation. Ongoing frequency to be determined based on review after 2 years. | Operating Company | ADB |

b. Capacity Building during report period

The relevant stakeholders need to ensure the EMP implementation as their responsibilities. CPMU, PPMUs, CSCs and CCs need to appoint officers/staffs to be 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 will be trained (at least once in the first 3 months of the project on monitoring and preparing environmental reports.
- Construction contractor: Will be trained (immediately after contract signing) on implementing mitigation measures and preparing reports.

Up to the end of December 2016, 4 short training courses on EMP implementation were held in Binh Dinh, Phu Yen, Ninh Thuan, Binh Thuan 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 | <ul style="list-style-type: none"> ✓ 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 | <ul style="list-style-type: none"> ✓ 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 Total : 7 participants |
| 10 Oct 2016 | 1.30 - 5.00 pm | Ninh Thuan PPMU Office | <ul style="list-style-type: none"> ✓ 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 Total : 15 participants |
| 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 Total : 14 participants |

| | | | | |
|--|--|------------------------------|--|--|
| | | Ha Tinh PPMU Office | This to be held in First Quarterly in 2017 | |
| | | Thua Thien – Hue PPMU Office | This to be held in First Quarterly in 2017 | |

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) |
|----|-----------------|-------------------------|------------------------------|-------------------|--------------|--------------------------------|---------------------------|----------------------------|--------------------|---------------------------------------|
| | Name | No. of Active Contracts | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | |
| | | | Design and Preparations | Worker Provisions | Biodiversity | Public Consultation/ Grievance | Community Values / Safety | Hydrology/ Water Pollution | Project Completion | |
| 1 | Ha Tinh | 0 | | | | | | | | |
| 2 | TT Hue | 0 | | | | | | | | |
| 3 | Binh Dinh | 2 | 90 | 83.33 | 80 | 100 | 95.84 | 100 | Not completed all | 91.53 |
| 4 | Phu Yen | 1 | 90 | 83.33 | 80 | 100 | 91.67 | 100 | Not completed all | 90.83 |
| 5 | Ninh Thuan | 2 | 90 | 100 | 80 | 100 | 91.67 | 100 | Not completed all | 93.61 |
| 6 | Binh Thuan | 4 | 90 | 83.33 | 100 | 100 | 100 | 100 | Not completed all | 95.56 |

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 9 packages of 04 Provinces reach 80.0 -100 % with average value is 90.8- 95.56%. 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 04 project provinces reached 90 %. 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 Site EMP is still not prepared by contractors.

Worker provision's indicator All packages in Ninh Thuan 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 % for packages in Binh Dinh, Phu Yen & Binh Thuan Province due to the contractors did not carried out an awareness program for communicable diseases/HIV-AIDS described in Deign & Preparation's indicator

Biodiversity indicator: All packages in Binh Thuan Province reached 100%. It shows that projects 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 Binh Dinh, Phu Yen & Ninh Thuan Province due to contractors not fully implementing 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 04 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 Binh Thuan 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 restricted access to the construction site to the public. Value of this indicator of Binh Dinh, Phu Yen, Ninh Thuan Province reached rather high 91.67-95.84% due to the contractors were responsible for regular spraying of roadway surfaces and sites under construction in areas accessed by the public.

Hydrology/Water Pollution's indicator: All packages 04 project provinces 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.

Project Completion's indicator: This indicator is assessed for only one package in Ninh Thuan due to during this 6-month period, only this package completed 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.

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 **92.88 %** 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><u>Performance Indicator</u></i> | <i><u>Score (all provinces)</u></i> |
|-------------------------------------|-------------------------------------|
| 1. Design and Preparations | 90.00 |
| 2. Worker Provisions | 87.50 |
| 3. Biodiversity | 85.00 |
| 4. Public Consultation/Grievance | 100 |
| 5. Community Values / Safety | 94.80 |
| 6. Hydrology/Water Pollution | 100 |
| 7. Project Completion | Not |

| | |
|----------|---------------|
| | completed all |
| Average: | 92.88 |

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

| Outstanding issues | Action required | By whom | By when | Implementation Status |
|--|--|---------|---|--|
| 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 biding documents of CSC | PPMUs | During CSC selection and mobilization | Partly implemented |
| | Provide guidance and monitor the implementation | LIC | During CSC selection and mobilization | Implemented (Phu Yen, Binh Dinh : 26 -28 Sep 2016; Ninh Thuan, Binh Thuan: 10-12 Oct 2016; Ha Tinh : 1-3 Mar 2017 ; Hue: not implemented) |
| 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 |
| | Provide training for EMP implementation, monitoring and report system for | LIC | At the early time of construction phase | |

| Outstanding issues | Action required | By whom | By when | Implementation Status |
|--------------------|-----------------|---------|---------|-------------------------------|
| | contractors | | | 2017 ; Hue: not implemented) |

b. Actions proposed for this report period

Environmental Action Plan

| 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"> - 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; - Prepare IEE report, submit to ADB for approval. | CPMU and LIC | During new subprojects selection and preparation | <p>Not implemented</p> <ul style="list-style-type: none"> ▪ <i>Technical design is not completed</i> ▪ <i>Environmental Screening /REA : planned date : April 2017</i> ▪ <i>Prepare IEE : May –July 2017</i> |
| Inadequate performance of internal environmental monitoring system | <ul style="list-style-type: none"> - More capacity strengthening need to be provided for all PPMUs and CSC to enhance skill and knowledge; | CPMU LIC | As soon as possible | Partly implemented |
| | <ul style="list-style-type: none"> - Prepare and approve Contractor's environmental management plans (CEMP) for all on-going subprojects; - CEMPs need to be prepared by contractors and approved PPMUs prior to the civil work commenced for all remain subprojects. - Provide technical | CSC, contractors and PPMUs of subproject in Binh Dinh, Phu Yen, and Ninh Thuan All contractors and all | Immediately Before starting civil works | Partly implemented |

| Outstanding issues | Action required | By whom | By when | Implementation Status |
|--|---|---|--|--|
| | guidance and provide CEMP form | PPMU CPMU and LIC | | |
| Submission of semi-annual environmental monitoring report | - Prepare semi-annual environmental monitoring report for period of June to December 2016 and submit to ADB for disclosure in January 2017 | CPMU, LIC | As it is in due | Implemented <ul style="list-style-type: none"> ▪ LIC submitted to CPMU : 28 Feb 2017 ▪ CPMU submitted to ADB 2 Mar 2017 |
| Inadequate drainage design of Upgrading Lai Giang Dam's primary canal Subproject in Binh Dinh province | <ul style="list-style-type: none"> - Conduct sufficient technical assessment of 11 drainage culverts, and 3 crossing bridges; - 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; - Supervision performance of PPMU, technical design and CSC performance | Binh Dinh PPMU, Detail design consultant and CSC CPMU and Technical consultants of LIC and CSBs | Immediately As it is in due | Implemented |
| Impacts on piped-water supply system in An Cu – An Hiep - An Hoa Subproject in Phu Yen province | <ul style="list-style-type: none"> - Provide alternative pipelines to ensure sufficient water supply for local people in Tan Hoa village - Supervision of contractors performance | Contractor Phu Yen PPMU, CSC and CSBs | Immediately As it is in due | Implemented Implemented |
| Several inter-village roads will be used for transporting materials in An Cu – An Hiep - | - Obtain agreements with local authorities prior to using of all local facilities and provide compensation for any damage; | | As it is in due | Implemented |

| Outstanding issues | Action required | By whom | By when | Implementation Status |
|--|---|---|---------------------------------------|------------------------------|
| An Hoa Subproject in Phu Yen province | - Supervision of contractors performance | | | |
| Inadequate drainage design of An Cu – An Hiep - An Hoa Subproject in Phu Yen province | <ul style="list-style-type: none"> - Conduct sufficient technical assessment for whole subproject; - Provided further adjustments to avoid flooding, specially section on Tan Hoa village of An Hoa commune; - Conduct public consultation during conducting technical assessment - Supervision performance of PPMU, technical design and CSC performance | Phu Yen PPMU, Detail design consultant and CSC CPMU and Technical consultants of LIC and CSBs of An Cu, An Hiep, An Hoa commune | Immediately | Implemented |
| 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"> - Send the subproject documents (design document, drawn, approved IEE) to local authorities and disclose to local people; - Supervision of PPMU performance | Phu Yen PPMU, CPMU and Technical consultants of LIC | Immediately | Implemented |
| Inadequate drainage design and 6 cross canal culverts in Cham primary canal of Nha Trinh - Lam Cam irrigation system subproject, Ninh Thuan province | <ul style="list-style-type: none"> - Conduct sufficient technical assessment of drainage culverts, and 6 crossing canal culverts; - Provided further technical adjustments to avoid flooding of 10ha cultivation areas in Hoai Nhon village, Phuoc Hau commune; - Supervision performance of PPMU, technical design | Ninh Thuan PPMU, Detail design consultant and CSC CPMU and Technical consultants of LIC and | Before handing over to operation unit | |

| Outstanding issues | Action required | By whom | By when | Implementation Status |
|---|--|--|---|-----------------------|
| | and CSC performance | CSBs | | |
| Inadequate number and location of water intakes on South primary canal Cham primary canal of Nha Trinh - Lam Cam irrigation system subproject – Ninh Thuan province | <ul style="list-style-type: none"> - Conduct sufficient technical assessment of water intake on the canal section passing Ba De paddy field; - Provided further technical adjustments to ensure sufficient water supply for 4 ha of cultivation activities; - Supervision performance of PPMU, technical design and CSC performance | <p>Ninh Thuan PPMU, Detail design consultant and CSC</p> <p>CPMU and Technical consultants of LIC and CSBs</p> | As soon as possible | Implemented |
| Inappropriate excavated soil in Upgrading Du Du Reservoir Subproject, Binh Thuan province | <ul style="list-style-type: none"> - Collect and transport all excavated soil to disposal areas; - Levelling road surface to avoid traffic accident and obstruct; - Consulted with local people since construction operation and maintenance road passing Minh Tien village to ensure traveling condition for local people | Contractor, CSC and PPMU Binh Thuan | <p>Immediately</p> <p>As it is in due</p> | Implemented |

V. COMMUNITY COMPLAINTS

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

| <i>Province</i> | <i>Number of Complaints</i> |
|-----------------|-----------------------------|
| Phu Yen | None |
| Binh Dinh | None |
| Ninh Thuan | None |
| Binh Thuan | None |

Remark:

The table is based on data from tables of the same title found in the provincial quarterly reports. During this first six month, there are no complaints for all packages of all 4 PPMUs such as : Phu Yen, Binh Dinh, Ninh Thuan, Binh Thuan

However, some feedbacks from Community Supervision Boards as bellow :

- Contractors need to make sure order and security and do not occur social evils during whole construction years
- Works progress should be implemented timely, should not be delayed affecting the livelihood of people living along upgrading canals and rural road and construction material & waste transportation roads
- Construction debris, tree cuttings, excess dirt, rubble and scrap need to remove from the construction zone after completing construction (Lot 2 & 3 of North main canal package – Ninh Thuan)
- The Contractors should ensure any damaged environment and related infrastructures will be recovered after completing construction

| Outstanding issues | Action required | By whom | By when |
|---------------------------|------------------------|----------------|----------------|
|---------------------------|------------------------|----------------|----------------|

| | | | |
|---|--|------------|-------------------------------|
| Construction debris, tree cuttings, excess dirt, rubble and scrap need to remove from the construction zone after completing construction (Lot 2 & 3 of North main canal package –Ninh Thuan) | Removing all construction debris, tree cuttings, excess dirt, rubble and scrap from the construction zone | Contractor | Immediately |
| The contractors should ensure any damaged environment and related infrastructures will be recovered after completing construction | Repairing damaged infrastructures as soon as possible & inspecting these works to ensure they are done correctly | Contractor | After completing construction |

VI. CONCLUSION

a. Conclusion

In general, all contractors of 08 construction packages of 04 Project Provinces complied with proposed mitigation measures were described Environmental Performance Specifications, which detailed in Monitoring Check list with 50 variables are grouped in 5 performance indicators (Annex 1). The overall environmental performance on IRDSPCP – Additional financing subprojects currently underway is good.

Aside from substantial compliance of mitigation measures, some main most common performance shortfalls of province' contractors during this first 6 month period as bellow:

- Awareness raising of communicable diseases/HIV-AIDS for workers is not carried out as the contractors not invite Department or Centre of Health's staff disseminate for workers
- Watering exposed surfaces to mitigate dust increase is not implemented regularly
- Material loads traveling on village public routes are not covered regularly
- Areas of standing water in the worker camps area not drained and backfilled
- Safety equipment (hard hats, dust masks, safety glasses) to workers and training in use are not provided
- Contractors not provided First aid kits to workers at the job site along

b. Recommendation

- In addition to field monitoring, other quarterly field activities should include:
 - ❖ Record and review complaints from the community (both by writing or in word), inform the PPMU and resolve issues with the construction contractor.

- ❖ Review performance deficiencies noted during previous monitoring, update performance tracking forms and resolve issues with the construction contractor, indicated as above should be reminded & resolved with contractors to avoid occurrences in next time
- 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

VII. APPENDICES

APPENDIX 1: The format and indicators for environmental monitoring

Annex 1- Checklist and Environmental Compliance Monitoring Form

Environmental Compliance Monitoring Form

Instructions for use:

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

- c. A section to be completed one-time-only during the period when construction work is nearing completion. This section provides monitoring of Project Completion indicators of performance.

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

IV. Part C: Performance Tracking consists of three sections:

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

V. Sections of the checklist to be completed initially, at or around the beginning of construction, include:

- a. Performance Indicator 1: Design and Preparations: to be completed in two parts (see checklist) at the time the design is being finalized and project tendered (by the PPMU), and at the time construction begins (by the Construction Supervision Consultant (CSC) in conjunction with the PPMU).
- b. Performance Indicator 2: Worker Provisions: to be completed at the time construction gets underway by the CSC.
- c. Performance Indicator 3: Biodiversity: to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.
- d. Performance Indicator 4: Community Based Monitoring: to be completed at the time construction gets underway by the PPMU in conjunction with the CSC.

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

VI. Sections of the checklist to be completed quarterly by field monitoring at the construction site and surrounding affected area include:

- a. Performance Indicator 5: Community Values and Safety: results entered into this section of the checklist should be based on visual monitoring of affected areas and discussions with community members and affected people.

- b. Performance Indicator 6: Hydrology/Water Pollution: results entered into this section of the checklist should be based on visual monitoring of the construction area and surrounding water bodies (rivers, streams, canals and lakes).
- VII. In addition to field monitoring, other quarterly field activities include:
 - a. Record and review complaints from the community, inform the PPMU and resolve issues with the construction contractor.
 - b. Review performance deficiencies noted during previous monitoring, update performance tracking forms and resolve issues with the construction contractor.
- VIII. The Performance Indicator 7: Project Completion section of the checklist should be filled out when construction is over. The results are based on field monitoring of the site and surrounding community areas. Issues should be resolved before final payment is made to the contractor.
- IX. A “yes” answer to a question in the checklist indicates substantial compliance with the mitigation measure. “Substantial compliance” means that the mitigation measure is being implemented in most instances, with only a few isolated exceptions.
- X. In all cases (for all performance indicators), once monitoring is nearing completion and the appropriate section of the checklist has been completed, the inspector needs to tally the score and calculate the percent compliance, as provided for in the last row under each of the performance indicators, done by counting the total number of “yes” answers and dividing by the number of questions contributing to the score for the performance indicator (shown on the form), expressed as percent.
- XI. Performance Follow-up involves the following actions:
 - a. As a final action of monitoring at the site or in an office (design consultant or PPMU) the inspector or monitoring officer must notify the agency responsible for implementing mitigation actions (usually the construction contractor) of any shortcoming in performance and discuss with its responsible individual means for correcting the deficiency.
 - b. Using the Performance Follow-up form (Part C, Section 1), the inspector or monitoring officer will enter the relevant information in Columns 1 – 3 concerning the performance shortfalls observed during monitoring: performance variable number (1-50) and date observed (column 1), reason behind negative rating (column 2), and whether or not the responsible agency was notified and date of notification (column 3).
 - c. During the next/follow-up monitoring tour, the inspector will indicate in column 4 of Part C, Section 1 whether the problem has been corrected by entering “Yes” or “No” as appropriate if “Substantial Compliance” (see Item IX above) is/is not achieved.
 - d. For Performance Indicators 1 – 4, Indicator scores (see Item XII below) should be adjusted accordingly if the performance shortfall has been corrected within the next

three months (quarter). It should be noted in Column 5 of Part C Section 1 if the indicator score has been adjusted.

- e. For Performance Indicators 5 and 6, there is no need to adjust indicator scores, since improved performance will be reflected in the results from the next quarterly monitoring.
 - f. For Performance Indicator 7, a post-completion monitoring tour will need to be conducted to determine whether performance shortfalls have been corrected. The indicator score should be adjusted accordingly. It should be noted in Column 5 of Part C Section 1 if the indicator score has been adjusted.
 - g. Performance shortfalls should be registered consecutively up through the end of the construction activity using the Performance Follow-up form. Additional copies of the blank form can be made and attached to the Environmental Compliance Monitoring Form file.
- XII. Community Complaints are recorded and resolved using the form in Part C, Section 2. This involves the following actions:
- a. The inspector or monitoring officer will receive any complaints from members of the affected community and work with the construction contractor to resolve the deficiency.
 - b. Using the Community Complaints form (Part C, Section 2), the inspector or monitoring officer will enter the relevant information in Columns 1 – 3 concerning the complaint: name of person bringing the complaint and date (column 1), summary of complaint (column 2), and whether or not the responsible agency was notified and date of notification (column 3).
 - c. The inspector will indicate in column 4 of Part C, Section 1 whether the problem has been corrected by entering “Yes” or “No” as appropriate.
 - d. The inspector will contact the person registering the complaint, explain the corrective actions taken, provide any other justifications, and determine whether the person is satisfied with the action taken. It should be noted in Column 5 of Part C Section 2 if the person is satisfied with the corrective action.
 - e. Community complaints should be registered consecutively up through the end of the construction activity using the Community Complaints form. Additional copies of the blank form can be made and attached to the Environmental Compliance Monitoring Form file.
- XIII. Performance Indicator Results are recorded using the form shown in Part C Section 3 using the following procedure:
- a. Complete the general information at the top of the form. This assures that the data in the form are identified and associated with the correct subproject and reporting period.

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

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

Environmental Compliance Monitoring Form for Construction Package

Part A: General Project Information

Subproject Name: _____

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

Province: _____ Districts: _____

Design and Supervision Consultant Firm: _____

Construction Company Name: _____ Contract Date: _____

Contract Amount: _____ Contract Duration (days) _____

Person Responsible: _____ Phone _____

PPMU EMO: _____ Phone _____

Part B: Monitoring checklist

Performance Indicator 1. Design and Preparations

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

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

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

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

Performance Indicator 2. Worker Provisions

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

| | <u>Yes</u> | <u>No</u> | <u>Remarks</u> |
|---|------------|-----------|----------------|
| 11. Were local authorities consulted in the planning for the location of construction worker housing? | | | |
| 12. Are supervisors or other site personnel trained in basic first aid emergency response measures? | | | |
| 13. Are first aid kits readily available to workers at the job site along with instructions for use? | | | |
| 14. Has the contractor or Inspector from the Department of Health undertaken an awareness program for communicable diseases/HIV-AIDS? | | | |
| 15. Has the contractor provided safety equipment (hard hats, ear plugs, dust masks, safety boots and | | | |

| | | | |
|---|--|--|-----|
| glasses) to workers and training in use? | | | |
| 16. Are construction camps equipped with adequate water supply, sanitary toilets, washing facilities and facilities for waste collection and storage? | | | |
| Score (11-16; 6 total) | | | (%) |

Performance Indicator 3. Biodiversity

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

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

Performance Indicator 4. Community Based Monitoring

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

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

Outcome of Public Consultation:

Date: _____ Location: _____

Topics covered in presentation: _____

| |
|--------------------------|
| Comments from Attendees: |
| |
| |
| |
| |
| |
| |

Performance Indicator 5. Community Values and Safety

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

| | <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? | | | |
| Score (24-35; 12 total) | | | (%) |

Performance Indicator 6. Hydrology/Water Pollution

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

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

Performance Indicator 7. Project Completion

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

Date of Monitoring: _____

| | <u>Yes</u> | <u>No</u> | <u>Remarks</u> |
|---|------------|-----------|----------------|
| 44. Have drainage fixtures, curbs, road shoulders and ditch slopes been finished out to prevent hazard to the public during use? | | | |
| 45. Are ground surfaces in the project area graded to prevent water from collecting? | | | |
| 46. Have all construction debris, tree cuttings, excess dirt, rubble and scrap been removed from the construction zone? | | | |
| 47. Have all pits been filled in and graded to drain, underground tanks (including septic tanks) removed and holes backfilled? | | | |
| 48. Are all waste products removed from the construction site, equipment yards and worker camps, including oil waste, scrap materials and equipment, building materials and domestic waste? | | | |
| 49. Have all points of access (drives, walks) and utilities (water supply, power, communications) to public and private property been restored to original condition? | | | |
| 50. Have all complaints by the local community and individuals been resolved by the Contractor? | | | |
| Score (44-50; 7 total) | | | (%) |

Section 2: Community Complaints

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

Section 3: Performance Indicator Results

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

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

Submittal Date: _____ For Calendar Quarter: _____

Inspector: _____

(Signature)

Annex 2- Reporting Procedures and Templates.

Reporting Procedures and Templates

Procedures

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

1. . These are summarized in the following table:

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

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

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

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

Pictures at the site and kitchen , Bathroom , toilet of worker camp in Canal N24 - Van Phong Subproject -Binh Dinh Province on 27 Sep 2016



Pictures at the site and worker camps in North main canal , Song Quao, Ba Bau, Du Du Subprojects – Ninh Thuan & Binh Thuan Province on 11 – 13 Oct 2016



Lot 2 –North main canal Subproject



Canal 25 -Song Quao Subproject



At worker camp-Lot 2 of Ba Bau Subproject



Main canal –Lot 2 of Ba Bau Subproject



At Du Du Dam –Du Du Subproject