Environmental Monitoring Report

#2 Semestral Report Project Number: 46391-001 February 2017

VIE: Ha Noi and Ho Chi Minh City Power Grid Development Sector Project

Prepared by Hanoi Power Corporation for the Asian Development Bank

SEMI-ANNUAL ENVIRONMENTAL MONITORING REPORT

Period January – June 2016

Project Number: 46391-001

Loans 3161/8286-VIE: Ha Noi and Ho Chi Minh City Power Grid Development Sector Project

Executing Agency: EVN Hanoi City

Prepared by Hanoi City Power Corporation, Electricity of Vietnam for Asian Development Bank

CURRENCIES

(Rate of exchange of 28 March. 2016) Currency Unit – VND \$1.00 = 22,355 VND

ABBREVIATIONS

ADB	Asian Development Bank
AH	Affected households
B&C documents	Bidding and Contract documents
CEMP	Contractor Environmental Management Plan
CSC	Contractor Safeguard Consultant
CPC	Commune People Committee
DARD	Department of Agriculture and Rural Development
DoNRE	Department of Natural Resources and Environment
DoCST	Department of Culture, Sports and Tourism
DoLISA	Department of Labour, War Invalids and Social Affairs
DPMB	Development Project Management Board
EA	Executing Agency
EIA	Environmental Impact Assessment
EMOP	Environmental Monitoring Plan
EMP	Environmental Management Plan
EO	Environmental Officer of NPT
ES	Environmental Safeguard
ESHO	Environmental Safety Health Officer
HCMC	Ho Chi Minh City
EVNHANOI	Ha Noi Power Corporation
EVN <i>HCMC</i>	Ho Chi Minh City Power Corporation
IEC	Electricity Installation & Construction JSC. Initial Environmental Examination
IEE	
IES NES	International Environment Specialist
	National Safeguard Specialist for Environment
MoLISA	Ministry of Labour, War Invalids and Social Affairs
MoNRE NPA	Ministry of Natural Resources and Environment National Protected Area
OHTL	Overhead transmission line
PCB	Polychlorinated biphenyls
PCB	Physical Cultural Resources
PIC	•
PPC	Project Implementation Consultant Provincial People's Committee
RoW	Rights of Way
S/S	Substation
T/L	Transmission line
UGC	Underground cable
UXO	Unexploded Ordnance
USD	United State Dollars
JV	Joint Venture
OHL	Over Head Line
PCC	Power Construction Company
UGC	Under Ground Cable

WEIGHTS AND MEASURES

dB(A) Decibel (weighted average) ha hectare _ km _ kilometer km² _ square kilometer m _ meter m² _ square meter m³ _ cubic meter

NOTE

In this report, "\$" refers to US dollars unless otherwise stated.

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Table of Contents

1.	INTRODUCTION	1
	1.1 Project Background	1
	1.2 Report Purpose	1
2.	PROJECT IMPLEMENTATION PROGRESS	1
3. M	MONITORING MANAGEMENT SYSTEM AND MONITORING ETHODOLOGY	7
	3.1 Monitoring Management System	7
	3.2 Monitoring methodology	10
4.	STATUS of EMP IMPLEMENTATION	11
	4.1 Compliance with ADB loan covenants	11
	4.2 Incorporation of Environmental Requirements into Project Contractual Arrangements	12
	4.3 Capacity Building	13
	4.4 Summary of Environmental Mitigations and Compensation Measures Implemented	13
	4.4.1. Main findings from site visit of PIC	13
	4.4.2. EMP Performance Status	15
5.	SUMMARY OF ENVIRONMENTAL MONITORING	22
	5.1 Key Issues Identified	22
	5.2 Issues from previous report(s).	22
6.	COMPLAINTS	22
7.	CONCLUSION AND RECOMMENDATION	22
	7.1 Conclusions	22
	7.2 Recommendation	22
	opendix A: Summary of the environmental requirements in EMP/IEE and in Ba	
A	opendix B: Photos of Site Visit on 7 April 2016	4
A	opendix C: Site Environmental Compliance Inspection Record	7

LIST OF TABLES

TABLE 1:	LIST OF SUBPROJECTS WITH IEE STATUS	2
	The Scope of 06 civil works packages	
TABLE 3:	CONSTRUCTION PROGRESS OF SUBPROJECTS	4
TABLE 4:	ENVIRONMENTAL MONITORING STAKEHOLDER'S RESPONSIBILITIES	9
TABLE 5:	ESTABLISHED MONITORING SYSTEM AMONG RELEVANT STAKEHOLDERS	
TABLE 6:	STATUS OF LOAN COVENANT COMPLIANCE	
TABLE 7:	EMP COMPLIANCE STATUS OF ONGOING CIVIL WORK PACKAGES	
TABLE 8:	IDENTIFIED ISSUE AND ACTION REQUIRED	23

1. INTRODUCTION

1.1 Project Background

The Asian Development Bank (ADB) has approved Loan 3161/8286-VIE:¹ Ha Noi and Ho Chi Minh City Power Grid Development Sector Project to strengthen the capacity and reliability of the power infrastructure in Ha Noi and Ho Chi Minh City through the rehabilitation and development of the 220 kilovolt (kV) and 110 kV grid. Hanoi Power Corporation (EVN HANOI) and Ho Chi Minh City Power Corporation (EVN HCMC), which are respectively responsible for the power supply in Ha Noi and Ho Chi Minh City, are the executing agencies. The project's impact will be that growth in national electricity demand is met in a sustainable manner, and the outcome will be improved reliability and efficiency of electricity supply in Ha Noi and Ho Chi Minh City.

The project's outputs, categorized into four distinct groups to enable more focused monitoring of project performance, are the development and/or rehabilitation of: (i) four core substation and transmission line subprojects in Ha Noi, (ii) four core substation and transmission line subprojects in Ho Chi Minh City, (iii) up to 192 noncore substation and transmission line subprojects in Ha Noi, and (iv) up to nine noncore substation and transmission line subprojects in Ho Chi Minh City.

1.2 Report Purpose

This report presents the results of the environmental management performance and internal monitoring activities for period of January-June 2016. The report covers the following:

- Status of compliance with ADB environmental loan covenants and with the environmental requirements of the Government of Vietnam during the report period.
- Status of implementation of the environmental mitigation measures during the report period of January-June 2016, under construction subprojects (Noi Bai, Mo Lao, Thanh Xuan, Son Tay) based on the EMP requirements included in disclosure IEEs
- Recommending measures to mitigate the negative impacts on the environment for the construction phase.

2. PROJECT IMPLEMENTATION PROGRESS

The Project proposes 23 subprojects (4 core subprojects and 19 non-core subprojects) for EVN HANOI. As of 30 June 2016, IEE reports have been prepared for 4 core subprojects and 7 non-core subprojects, and disclosed on ADB website, while IEEs for 3 subprojects are under preparation by EVN HANOI Power Management Board (PMB). (Table 1)

¹ The funds are from ADB's ordinary capital resources (OCR) and ASEAN Infrastructure Fund (AIF).

² During the loan preparation, twenty non-core subprojects were identified; however before the loan approval (23 September 2014), EVN Hanoi dropped the Thach That (E10.7) 110 kV Substation subproject (originally listed as subproject number 24) because it is urgent to install and energize Thach That S/S so EVNHANOI invests Thach That S/S by other financing resource.

Table 1: List of subprojects with IEE status

Project	IEE	Construction started	Construction completed	Package
A: Core Project	<u>.</u>	-		
Rehabilitation of 110kV Son Tay S/S		May-16	Mar-17	ADB-HNPC-ST-W01
Rehabilitation and upgrade of 110 kV Phuong Liet S/S	Disclosed in Jan 2014	2017 Q2	not yet	not yet
Rehabilitation and upgrade of 110 kV Tran Hung Dao S/S		2017 Q2	not yet	not yet
Build new 110kV Substation at Noi Bai airport	Disclosed in Dec 2013	May-15	Apr-16	ADB-HNPC-NB-W01; ADB-HNPC-NB-W02
B: Non-Core Project				
Chem - Tay Ho 220kV transmission lines	Disclosed in Jun 2014	Dec-15	June-15	ADB-HNPC-CTH-W01; ADB-HNPC-CTH-W02
Mo Lao 110kV Substation and 110kV Branches	Disclosed in Jun 2014	Dec-15	Jun-16	ADB-HNPC-MLAO-W01; ADB-HNPC-MLAO-W02
Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Disclosed in Jun 2015	Dec-15	Jun-16	ADB-HNPC-TX-W01
Expansion of Thuong Dinh 110kV substation - E1.5	Disclosed in Jun 2015	2016 Q4	not yet	not yet
Thanh Cong - Thuong Dinh 110 kV underground cable	The first submission on 2 June 2016 Revised IEE submitted on 7 Nov	2017 Q2	not yet	not yet
Phu Nghia 110KV substation and 110KV line	Disclosed in Mar 2016	Aug-16	On going	ADB-HNPC-PN-W01
Increasing capacity of T2 transformer, rehabilitation of 110KV bay - Tia substation - E10.4	Disclosed in Aug 2016	2017 Q1	not yet	not yet
Construction of 110 kV Tay Ho - Yen Phu underground cable	The first submission on 11 July 2016 Revised IEE submitted on 7 Nov	2017 Q2	not yet	not yet
Construction of 110kV line from Thuong Tin 500 / 220kV substation supplying electricity to Thanh Oai 110kV	Disclosed in Apr 2016	Sep-16	On going	ADB-HNPC-TT-TO-W01
110kV line to Sai Dong Industrial combinations substation	To be submitted by May 2017	2017 Q3 (Sep)	not yet	not yet
New building 110kV Sai Dong Industrial combinations (Sai Dong 2)	To be submitted by Feb 2017	2017 Q2	not yet	not yet
New building 110kV Chuong My and line 110kV Thanh Oai - Chuong My	NOT YET	not yet	not yet	not yet
New building 110kV Ngoc Hoi and line	NOT YET	not yet	not yet	not yet
New building 110kV Tay Ho Tay Substation and line	NOT YET	not yet	not yet	not yet
110kV line to 220kV Son Tay Substation	Disclosed in Nov 2016	2016 Q4	not yet	not yet
New building 110kV Phung Town and line	NOT YET	not yet	not yet	not yet
110kV line from 500/220kV Thuong Tin substation - Quat Dong (E1.34) Substation - Tia (E10.4) Substation	NOT YET	not yet	not yet	not yet
110kV line from 500/220kV Thuong Tin substation - Quat Dong (E1.34) Substation - Tia (E10.4) Substation	NOT YET	not yet	not yet	not yet
New building 110kV Ba Vi Substation	To be submitted by 15 Dec 2016	2017 Q2	not yet	not yet

The construction progress during the reporting period and to-date for each of the subprojects is described below.

Overall the actual construction progress is 29.9% compared with a projected progress of 28.9%, the project is slightly ahead schedule.

During the first semiannual period of 2016, the construction activities are taking place in 4 subprojects: i) Build new 110kV Substation at Noi Bai airport (with two civil work packages); ii) Rehabilitation of Son Tay 110KV substation-E1.7; iii) Mo Lao 110kV Substation and 110kV Branches (with two construction packages) and iv) Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20.

As of 30 June, the construction works have been completed for 03 subprojects with 5 packages, including the NB-W01 (construction of substation), NB-W02 (construction of underground cable), MLAO-W01 (construction of substation), MLAO-W02 (construction of underground cable), TX-W01 (construction of substation). Only ST-W01 (construction of substation) is under construction. The scope of each contract package and its implementation period is summarized in Table 2.

Subproject	Contract	Scope	Contractor	Start	Completi
	package	•		Date	on date
1. Build new 110kV Substation at Noi Bai airport	ADB-HNPC- NB-W01: Civil work- Construction of substation and line	Construction of new Noi Bai 110kV substation in the area of more than 3,000 m ² agricultural land, which is located in Phu Cuong commune and construction of OHL which start from Van Tri 220kV substation to Noi Bai substation. The OHL cross over 3 commune including Nam Hong, Bac Hong, Phu Cuong and Quang Minh town.	PCC1	April, 2015	April, 2016, 100% completed
	ADB-HNPC- NB-W02: Supply and Install 110kV underground cable	Construction of more than 5km 110kV UGC which cross over Phu Cuong commune.	PCC5	Oct, 2015	March, 2016, 100% completed
2. Rehabilitation of 110kV Son Tay S/S	ADB-HNPC- ST-W01: Civil work for rehabilitees Son Tay substation	Rehabilitation of 110kV Son Tay substation, all the civil work will carry out inside the substation only.	JV Pico- o. Hanoi development investment and electricity services Company	March , 2016	July, 2016, 80% completed
3. Mo Lao 110kV Substation and 110kV Branches	ADB-HNPC- MLAO-W01: Construction of Underground cable	Construction of more than 800 m 110kV UGC which start from electrical pole No.28 to the Mo Lao substation, all the underground cable laydown inside Mo Lao Urban area.	PCC1	Dec, 2015	June, 2016, 100% completed
	ADB-HNPC- MLAO-W02:	Construction of new Mo Lao 110kV substation in	PCC1	Dec, 2015	June, 2016,

Subproject	Contract package	Scope	Contractor	Start Date	Completi on date
	Construction of substation	the area of more than 3000 m ² inside Mo Lao urban area.			100% completed
4. Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	ADB-HNPC- TX-W01: Construction of substation	Enlarge the existing Thanh Xuan substation, installation of new T3 110kV transformer inside the substation	PCC1	Dec, 2015	June, 2016 100% completed

JV = Joint Venture, OHL = Over Head Line, PCC = Power Construction Company, UGC = Under Ground Cable

Works on packages <u>NB-W01</u> and <u>NB-W02</u> were completed in April 2016 with total construction progress of 100%. It is following the time schedule for this subproject. Works on packages <u>MLAO-W01</u> and <u>MLAO-W02</u> are now moving forward and both have been started since Dec 2015 but until June 2016, 100% construction value were completed and the substation went into operation on 25 June 2016. Works on package <u>TX-W01</u> also completed and the final acceptance certificate was signed on 29 June 2016. Ground breaking ceremony for <u>ST-W01</u> package was organized on 15 March 2016 and this subproject was proposed to be completed on 30 July 2016.

The monthly construction progress of four ongoing subprojects (Noi Bai, Mo Lao, Thanh Xuan, Son Tay) is summarized in Table 3:

Contract package	Physical progress
Noi Bai	January, 2016 + Excavated around 92% of the Under Ground Cable (UGC) trench + Laid down the UGC to the cable trench around 50% + Excavated the soil of around 40% inside the substation area; February, 2016 + Excavated around 92% of the UGC trench and the humus of around 40% inside the substation area; + Laid down the UGC to the cable trench around 90% March, 2016 + Excavated around 100% of the UGC trench + Laid down the UGC to the cable trench account for 100% + Complete the skeleton of the substation April, 2016 + Do the Partial Discharge (PD) test for the UGC system + Test the transformer and equipment system of the substation
MO LAO	January, 2016 + Excavated around 30% the soil area inside the substation + Levelling ground of the substation account for 20% February, 2016 + Excavated around 65% the soil area inside the substation + Levelling ground of the substation account for 50% March, 2016 + Excavated around 85% the soil area inside the substation + Levelling ground of the substation account for 70% March, 2016 + Excavated around 92% the soil area inside the substation + Levelling ground of the substation account for 70% April, 2016 + Excavated around 92% the soil area inside the substation + Levelling ground of the substation account for 90% + Finished erecting the support pillar for the electrical equipment inside the substation

 Table 3:
 Construction Progress of subprojects

Contract package	Physical progress
	 + Finish castering the transformer's foundation of the substation + Completed construction of around 90% UGC trench, around 80% of earth wire and earth resistance system, around 90% of surrounding fence of the substation, erection of 90% of equipment support pillar and construction of 90% control centre.
	May, 2016 + Completed excavation of 100% the humus area inside the substation + Levelling ground of the substation account for 100% + Finished erecting the support pillar for the electrical equipment inside the substation + Finish castering the transformer's foundation of the substation + Completed construction of UGC trench, around 90% of earth wire and earth resistance system and around 90% of surrounding fence of the substation + Erection of 90% of equipment support pillar + Erection 10% of electrical equipment + Completed 100% of control centre + Completed excavation of 100% the soil area inside the substation + Levelling ground of the substation account for 100% + Einshed erecting the support pillar for the electrical equipment inside the substation + Completed excavation of 100% the soil area inside the substation + Levelling ground of the substation account for 100% + Finished erecting the support pillar for the electrical equipment inside the substation + Einshed erecting the transformer's foundation of the substation + Completed construction of UGC trench + Completed around 100% of earth wire and earth resistance system + Completed around 100% of surrounding fence of the substation + Erection of 100% of equipment support pillar + Erection of 100% of equipment support pillar <
	 + Completed installation of all primary and secondary electrical equipments for the substation January, 2016
	 + Excavated and transfered 20% of the trush area inside the substation February, 2016 + Excavated and transfered 80% of the trush area inside the substation + To pile 80% of total position + Completed transfering the auxilary transformer
	<u>March, 2016</u> + Completed excavating and levelling the ground of the substation + Complete pilling for the electrical equipment's self + Completed 50% of control centre + Completed castering of 10% equipment's support pilars foundation
Thanh Xuan	April, 2016 + Completed excavating and levelling the ground of the substation + Complete piling + Completed 90% of control centre + Completed levelling the substation + Completed castering of 90% equipment's support pilars foundation + Completed 40% of surrounding fence of the substation + Completed 90% of control centre + Completed 90% of control centre + Completed 95% of the fault oil resouvar + Completed 25% of the fault oil resouvar + Completed 90% castering of 10% equipment's support pilars foundation + Completed 90% castering of transformer + Completed 90% of electrical tower + Completed installation of bus bar and wire connection between the electrical equipment. May, 2016
	+ Completed excavating and levelling the ground of the substation + Complete piling

Contract package	Physical progress
	+ Completed 100% of control centre
	+ Completed levelling the substation
	+ Completed castering of 100% equipment's support pilars foundation
	+ Complete 100% of surrounding fence of the substation
	+ Completed 100% of control centre
	+ Completed 100% of the fault oil resouvar
	+ Completed castering of 100% equipment's support pilars foundation
	+ Completed 80% of road inside the substation
	+ Completed 100% castering of transformer
	+ Completed 100% of electrical tower
	+ Completed installation of bus bar and wire connection between the electrical equipment.
	June, 2016
	 + Completed excavating and levelling the ground of the substation + Complete piling
	+ Completed 100% of control centre
	+ Completed levelling the substation
	+ Completed castering of 100% equipment's support pilars foundation
	+ Complete 100% of surrounding fence of the substation
	+ Completed 100% of control centre
	+ Completed 100% of the fault oil resouvar
	+ Completed castering of 100% equipment's support pilars foundation
	+ Completed 100% of road inside the substation
	+ Completed 100% castering of transformer
	+ Completed 100% of electrical tower
	<u>March, 2016</u>
	+ Complete moving the T1 Transformer in order to land aquisition to rehabilition of 110kV
	circuit breaker and disconector;
	 + Construction around 90% of new equipments foundation self on the swich yard. + Installation of 90% Scada system
	+ Installation of 60% fire protection system inside the substation
	April, 2016
	+ Evicted two auxirary transformer 100kVA-10/0.4kV
	+ To construct the control and distribution centre which the ground floor intend for
	installation of UGC and control cable, first floor for setting up the 22kV control cubicle
	and second floor intend for setting up the control chamber, accu chamber and protection
	system, completed work load is aproximatelly 5%.
	+ Installed two new carpacitor bank of which capacity is 200kVAr each;
	+ Installed earth swich systems inside the substation area;
	+ Improved the ligh system in the substation;
Son Tay	+ Construction around 30% of new equipments foundation self on the swich yard.
	+ Installation of 25% Scada system
	+ Installation of 30% fire protection system inside the substation <u>May, 2016</u>
	+ Construction of the control and distribution centre, completed work load is aproximatelly
	8%.
	+ Installed earth swich systems inside the substation area;
	+ Improved the ligh system in the substation;
	+ Construction around 50% of new equipments foundation self on the swich yard.
	+ Installation of 50% Scada system
	+ Installation of 50% fire protection system inside the substation
	<u>June, 2016</u>
	+ To construct the control and distribution centre, completed work load is aproximatelly
	10%.
	+ Installed earth swich systems inside the substation area;
	+ Improved the ligh system in the substation;

Contract package	Physical progress	
	 + Construction around 90% of new equipments foundation self on the swich yard. + Installation of 90% Scada system + Installation of 60% fire protection system inside the substation 	

3. MONITORING MANAGEMENT SYSTEM AND MONITORING METHODOLOGY

3.1 Monitoring Management System

As stated in the approval IEE, the independence environmental monitoring consultant will not be mobilised to conduct environmental monitoring. Thus, the monitoring tasks have been assigned for Construction supervision consultant, Project Management Board of Hanoi Power Development, with supported by PIC, which focus on monitoring implementation of environmental protection measures of the construction contractors. The status of internal environmental monitoring system could be summarized in Figure 1:

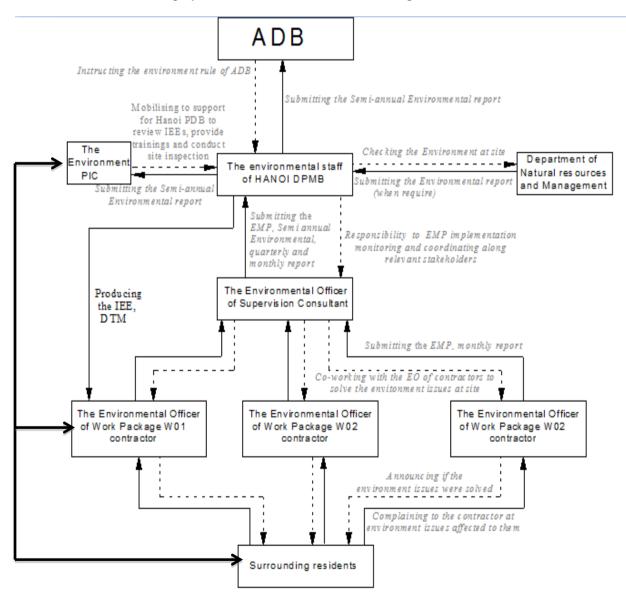


Figure 1: Environmental management system

The detail description of Environmental monitoring responsibilities of each stakeholder is presented in Table 4.

Stakeholder	Responsibilities	Status of compliance
Hanoi Power Management Board	 Establish an Environment Unit led by an Environmental Staff to implement EMP tasks Manage implement and expension the compliance of 	Yes, Hanoi Power Management Board have assigned two
board	 Manage, implement and supervise the compliance of the EMP and any conditions for approval, including the supervision of construction and operation of all Board staff and Contractor 	responsibility staffs to be in charge of EMP implementation
	 Evaluate the performance of EMP and conduct revisions, or suspension of operations in cases of violating the conditions of the EMP, which can cause serious impacts on the local community. 	monitoring and coordinate along relevant stakeholders
	 Ensure the effective communication and dissemination of content and requirements in EMP to the Contractor. 	
	 Assist the Contractor in implementing sub-plans 	
	Supervise EMP performance	
	 Report EMP performance to EVN, ADB by semi- annual environmental monitoring report 	
	 Prepare summary reports on Project's environmental activities upon request 	
	Brief the Project's information in community meetings	
	 Ensure continuing communication with local communities and fulfil commitments to facilitate for community consultations during project life. 	
Construction Supervision	 Prepare and implement Environmental Supervision Plan during construction phase 	Yes, construction supervision consultants
Consultant	 Prepare and implement Environmental Monitoring Plan during construction phase 	for 6 ongoing civil work packages assigned a
	 Report on any incidents or non-compliances of EMP to DPMB 	consultants to be i charge of EM compliance monitoring
	 Ensure adequate education and training to all staff related to environmental supervision 	
	 Provide recommendations on EMP performance to DPMB 	
Project Implementation Consultant	 Assist EVN/DPMB in reviewing detailed design for the subproject to ensure mitigation measures being incorporated. 	Yes PIC has been mobilised to support IEE reparation consultant
(PIC)	 Assist EVN/DPMB for monitoring and evaluation of safeguards compliance 	firms, provide trainings and conduct periodic site
	 Maintain close coordination with the safeguard team throughout the project life. 	inspections
	• Work with HANOI DPMB to provide education	
	and training for awareness building on safeguards issues	
Contractor	 Prepare and keep records and necessary data as required in EMP and submit to Supervision Consultant 	Yes, 6 contractors of ongoing civil work
	 Ensure that workers are informed of purposes of EMP and aware of necessary measures to implement EMP 	packages have assigned 6 environmental officers to be in charge of environmental management

 Table 4:
 Environmental monitoring Stakeholder's responsibilities

Stakeholder	Responsibilities	Status of compliance	
Local authority and community	Participate in monitoring EMP implementation	Yes, as per state's administration and supervision activities	

Monitoring system has been established among relevant stakeholders of ongoing subprojects to ensure internal monitoring of EMP compliance; the detail could be summarized in Table 5.

Table 5:	Established Monitoring system among relevant stakeholders
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Environmental officer	Agency	Package No.
Ha Tuan Minh	Project Management Board of Hanoi	
Tran Kieu Ngoc	Power Development	
Nguyen Thi Loan	Project Implementation consultant	
Mo Lao s/s		•
Nguyen Van Trung	Contractor - Power construction JSC No.1	ADB-HNPC-ML-W01
Duong Van Nguyen	Contractor - Power construction JSC No.1	ADB-HNPC-ML-W02
Ho Van Nghiem	CSC - Vietnam electrical construction consultant service JSC.	HANOI DPMB-ML-TVGS
Thanh Xuan s/s		
Nguyen Van Ky	Contractor - Power construction JSC No.1	ADB-HNPC-TX-W01
Ho Van Nghiem	CSC - Vietnam electrical construction consultant service JSC.	HANOI DPMB-TX-TVGS
Noi Bai s/s		
Nguyen Van Trung	Contractor - Power construction JSC No.1	ADB-HNPC-NB-W01-L01
Tran Van Thuy	Contractor - JV Power Industrial construction JSC and INCO ICS JSC	ADB-HNPC-NB-W01-L02
Nguyen Hong Quan	Contractor - Corporation Investment Consulting Electrical Construction And Number Five	ADB-HNPC-NB-W02
Le Anh Duc	CSC - Joint venture Infrastructure Technical & Electricity construction Investment consultancy JSC and Electric power design survey JSC	HANOI DPMB-NB-TVGS

3.2 Monitoring methodology

The EMP compliance monitoring has been conducted through: i) reviewing the completed EMP compliance forms of CSCs for each civil work packages (please refer to Annex C); ii) periodic site inspection of Project Management Board of Hanoi Power Development (weekly); iii) random site inspection of PIC, twice per year.

a) Document review of Monitoring Compliance with EMPs by CSC

All documents related to environmental management of the project are collected and reviewed to understand the performance of mitigation measures through its documentation. The reviewed documents include: internal monitoring reports of contractors of ongoing civil work packages, site inspection of CSC for every ongoing civil work packages, biding and contract documents.

Monthly reports on EMP compliance of contractors are done through site inspection of CSC for every ongoing civil work packages. Monitoring form aided by the monitoring checklist were prepared based on detail described mitigation measures, as per stated in EMPs, proposed in Annex C. The effectiveness of a contractor's environmental management of a particular impact item is evaluated subjectively using the following rating criteria:

- 1 Very good: all required measures are conducted
- 2 Good: main measures are conducted
- 3 Medium: some measures conducted

- 4 Weak: few measures conducted
- 5 Very weak: few measures conducted
- b) <u>Site visit</u>

Site visit has been conducted by Project Management Board of Hanoi Power Development (weekly). The PIC visits construction site one or two times every year. During this report period, PIC has conducted site visit in 7 April 2016 to random check performance of contractors on the site, check the location of worker camps, interview workers.

4. STATUS of EMP IMPLEMENTATION

4.1 Compliance with ADB loan covenants

As required, all safeguard environmental schedules stated on Loan Covenant need to strictly complied with, the list of environmental loan covenants and the level of compliance of Loan 3161/8286 is presented in Table 6.

ADB Environmental loan covenants	Status of compliance
Schedule 4, Para. No. 7 The Borrower shall ensure that the Executing Agencies do not award any Works contract which involves environmental impacts until:(a) The Ministry (or its Department, as the case may be) of Environment and Natural Resources has issued an environmental certificate approving the IEE relevant to the Subproject; and (b) the Executing Agencies have incorporated the relevant provisions from the EMP into the Works contract related to the Subproject.	Being complied with EMP reports prepared and approved as requirements of both Vietnam and ADB Requirements and EMP included in bidding documents of issued civil packages (namely: NB- W01, NB-W02, MLAO-W01, MLAO-W02, TX-W01, ST-W01).
Schedule 4, Para. 10 The Executing Agencies shall recruit the individual consultants for preparation of safeguard documents, financial and economic analyses, technical specifications, bidding documents and bid evaluation reports in accordance with procedures acceptable to ADB for recruiting individual consultants.	Being complied with The Hanoi EVN has recruited consultancy firms to prepare of safeguard documents, and individual consultant to support for reviewing the IEE. The bidding documents and bid evaluation reports in accordance with procedures acceptable to ADB for recruiting individual/firm consultants.
Schedule 5, Para. No. 3 The Borrower shall cause the Executing Agencies to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) the Borrower's applicable laws and regulations relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	 Being compliance with 12 IEEs had been submitted to ADB for approval and disclosure and the first SEMR for period June to December 2015 was also submitted to ADB for disclose Daily monitoring at site are being conducted by construction supervisor consultants (CSC) and contractors, periodic site inspection by PIC and Hanoi PDMB. EMP included in biding documents of NB-W01, NB-W02, MLAO-W01, MLAO-W02, TX-W01, ST- W01) civil work packages. The compliance monitoring system has been taken place as noted in above
Schedule 5, Para. No 8 (a) The Borrower shall cause the Executing Agencies to make available necessary budgetary and human resources to fully implement the EMP and the RP.	Being compliance with -The budget for EMP implementation will be available by project owner and contractors. -The environmental staff of CSC, contractor, project owner as well as PIC are assigned to support and inspect EMP implementation.
Schedule 5, Para. No 9	Being compliance with

Table 6: Status of Loan Covenant Compliance

ADB Environmental loan covenants	Status of compliance
(d)The Borrower shall cause the Executing Agencies to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (i) comply with the measures relevant to the contractor set forth in the IEE, the EMP and the RP and any corrective or prevent active actions set forth in a Safeguards Monitoring Report; (ii) make available a budget for all such environmental and social measures; and (iii) provide the Executing Agencies with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, and the RP.	The bidding documents of NB-W01, NB-W02, MLAO-W01, MLAO-W02, TX-W01, ST-W01) civil constructs and contracts for Works contain provisions that require contractors to comply with mitigation measures stated in IEE and RP; make budget available and inform the Executing Agencies any unanticipated environmental, resettlement issues. And unanticipated environmental risks or impacts that arise during construction will be included in SEMR and send to relevant stakeholder for implementing.
Schedule 5, Para. No 10 (e) The Borrower shall cause the Executing Agencies to do the following: (a) submit semimanual Safeguards Monitoring Reports to ADB until the Project completion and disclose relevant information from such reports to the affected persons and to ADB web site promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, and the RP, as applicable, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP, and the RP promptly after becoming aware of the breach.	 Being complied with: The first SEMR (June to Dec. 2015) was submitted and disclosure on ADB Web's and the second SEMR (Jan to Jun 2016) is submitted to ADB for reviewing Unanticipated environmental impacts and corresponding corrective actions will be a part of SEMR, but no unanticipated environmental impacts have been identified in the latest SEMR; As confirm from Hanoi Development Project Management Board (DPMB), there are not large changes in projects which could create adverse impacts on environment; Semi-annual Environmental Monitoring report is submitted to ADB(first monitoring period: July-December 2015). All ongoing civil works on the site are monitored to be complied with requirements set forth in EMP through internal environmental management system as stated in Figure 1, Table 4 and 5
Schedule 5, Para. No 26 (f) For any Works supported under the Project, the Borrower shall ensure that the Executing Agencies will not issue a notice to proceed with such Works, until it has been confirmed in writing that the related construction site is free and clear from any unexploded ordnance.	Being complied with The Project Owner has sent a letter to the Hanoi Capital Military Command to get recommendation for UXO clearance for every subproject. If the Hanoi Command request for UXO clearance, this is always done before subproject construction. For 4 subprojects monitored in this report, UXO was required by Hanoi Capital Military Command and the UXO clearance was conducted before construction starts.

4.2 Incorporation of Environmental Requirements into Project Contractual Arrangements

The environmental consideration has been incorporated into the subproject documents such as the EMP/IEE and the bidding and contract (B&C) documents of NB-W01, NB-W02, MLAO-W01, MLAO-W02, TX-W01, ST-W01) as stated in Appendix A.

In these the bidding and contract (B&C) documents, the content of the potential environmental impact and proposed mitigation measures for construction period in the EMP section in the disclosed IEE and the emergency respond plan are included.

4.3 Capacity Building

The PIC has organized a training workshop to environmental staff of Hanoi Development Project Management Board (DPMB), CSC, and contractor during fourth quarter 2015 on environmental requirement of ADB, GOV as well as provides report forms and guidance to prepare environmental monitoring reports.

The contents of workshop are:

- Introduction of policies, laws and regulations of the government environmental policy in Vietnam and ADB environmental safety
- Preparation of IEE and EIA reports as stipulated by ADB and Vietnam
- · Preparation of environmental reports to be included in the bidding documents
- Preparation of site environmental management plans of contractors
- Improving the skills of environmental monitoring for environment supervisors of contractors and DPMB
- Agreement on-site inspection, monthly and quarterly reporting forms for contractors (in Vietnamese) and semi-annual report (in English) for the project management unit

4.4 Summary of Environmental Mitigations and Compensation Measures Implemented

During this report period, 6 construction packages of 4 subprojects were started. The monthly site inspection was conducted by the environmental officer of the project owner. The Construction supervision consultant monitor at construction site every day.

For the Rehabilitation of 110kV Son Tay S/S (ST-W01) package. It is found the construction sites to be generally tidy and organized, safety signal and lighting were enhanced to keep absolutely safety during construction period. The workers were using proper protective equipment and were provided with satisfactory facilities. Disposal sites for excavation and hazardous materials had been allocated and approved by the relevant authorities have been transported to Nam Son Landfill, Soc Son district, Hanoi. The batching plant was complied with EMP by implementing mitigation measures to reduce noise and dust. The drinking water was provided for all three construction sites.

At Noi Bai, Thanh Xuan and Mo Lao subprojects, the mud (Bentonite) were generated from excavating the equipment shelf's foundation and excavating the underground cable trench activities. Mud is stored in special box and transferred into disposal site every night Vinh Quynh Landfill, Vinh Quynh commune, Thanh Tri district, Hanoi. To reduce the noise generated by project vehicles/trucks transporting the mud during the night, contractors have requested drivers made no horn and during the loading of materials or waste turn off the engine. All machines, equipment, and weight load of machine at the construction sites were technically tested and checked as requested by the government regulation. Thus, issues of safety and environment of contractors and subcontractors comply with requirements of the Environmental Management Plan and improved.

Incident: No Incident was occurred in the period of January-June 2016.

4.4.1. Main findings from site visit of PIC

During this report period, PIC conducted site visit on 7 April 2016 to random check performance of contractors on the site of all two subprojects under construction: i) Mo Lao 110 kV substation and transmission line subproject and ii) 110 kV Thanh Xuan substation, installing new transformers T3 110kV substation to check the location of worker camps, interview workers. The main findings from site visit could be summarized as below:

a) Mo Lao 110 kV substation and transmission line

The good points:

- Mo Lao station is built in a closed area with surrounding wall, a closest residential area is about 100m from construction site. The construction activities are conducted inside the substation area. Thus, the environmental impact, such as smoke, dust, noise to residential areas is negligible.
- Building materials are gathered in the substation area, therefore it does not create dust and do not make traffic obstructs
- All workers are using personal protective equipment while working
- No complaints from surrounding residents about the environmental problems caused by the project

Problems to overcome

<u>On site</u>

- The subproject information board should complement the phone number of the units involved or the hotline telephone number for people to contact if there are complaints, (Appendix B -Figure 1)
- The safety tape should be hang around the holes dug for installation of pipes need warning tape around to prevent people passing by at night can fall into a pit (Appendix B-Figure 2)
- Hole dug at the construction site need warning tape around to prevent workers from falling into the pit in the evening (Appendix B-Figure 3)
- Excavated soil should be stored far away from the excavation area to avoid collapse and landslide (Appendix B-Figure 4)

Worker camps

- Temporary accommodation of workers are messy and unhygienic. It needs to clean up more tidy
- Kitchen area did not meet the requirements on environmental sanitation, although drinking water is bottled water (Appendix B-Figure 6)
- Garbage is collected but disposed directly into the surrounding area (Appendix B-Figure 7)
- Temporary toilet is placed near the kitchen. Around the toilet generates wastewater from the kitchen because no wastewater drainage (Appendix B-Figure 8)
- b) <u>110 kV Thanh Xuan substation, installing new transformers T3 110kV substation</u>

The good points:

- The extension is built in a separate site of the existing 110kV substation Thanh Xuan. Around the construction site is an orchard of Trung Van commune, no houses are around. In front of the Thanh Xuan substation gate are small food shops but they are far away from the construction area (about 200 m). Thus, the environmental impact, such as smoke, dust, noise to residential areas is insignificant (Figure Appendix B-13, 15, 16)
- Building materials are gathered inside the construction area, therefore no dust and traffic obstructs are generated
- Are workers using personal protective equipment while working (Appendix B-Figure 12)
- Workers do not stay at the camp at construction site, but rent house at surrounding area. Therefore no sanitation problem regarding camp site is occurred
- No complaints were recored from surrounding residents about the environmental problems caused by the subproject

Points to overcome

<u>On site</u>

- Building materials along the way need to be stored orderly to prevent accident occurrence (Appendix B-Figure 9-10).
- Place the subproject information board outside the entrance to the construction site with the contractor's/project owner's telephone number or a hotline for people to contact if there are complaints (Appendix B-Figure 11).
- Install mobile toilets for workers
- Place a garbage collection bin and dispose solid waste at the regulated place.

4.4.2. EMP Performance Status

The EMP compliance monitoring results based on the reviewing of CSC site inspection forms (see annex C) and site inspection of Hanoi DPMB and PIC is summarized in Table 7.

		Complianc	e Attained	
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc.).	1: very good The worker camp, offices, concrete batching areas etc. was closed after construction finished. The environment was recovered and clean up.	 3: Medium Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities. The subproject information board should complement the phone number of the units involved or the hotline telephone number for people to contact if there are complaints, Kitchen area did not meet the requirements on environmental sanitation, although drinking water is bottled water. Contractor's storage facilities have been surrounded by a security fence. 	 1: very good Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities Wastewater is preliminary treated by settle chamber before discharging into to surface water bodies Contractor's storage facilities have been surrounded by a security fence. Concrete batching areas are provided with bunds to control movement of runoff to waterways. 	 1: very good Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities Wastewater is preliminary treated by settle chamber before discharging into sewage systems
Demarcation and clearing of RoW and ancillary facilities	Completed. The environment was recovered and clean up.	2: Good The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed.	1: very good Limit area was cleared. In the area were only agricultural crops (rice, vegetable) no significant vegetation.	1: very good The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed.
Preparation of site: excavation, removal and disposal of	Completed. The environment was recovered. Unusable materials were cleaned up	 2: good The excavated area was limited to the area needed for construction only. Excavated material to be 	2: good - The excavated area was limited to the area needed for construction only - Excavated material was disposed	1: very good - The excavated area was limited to the area needed for construction only. - Excavated material was disposed

Table 7: EMP Compliance Status of Ongoing Civil Work Packages

	Compliance Attained			
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
unusable (incompetent) materials		 disposed of outside and away from the work area. The safety tape should be hang around the holes dug for installation of pipes need warning tape around to prevent people passing by at night can fall into a pit 	of outside and away from the work area.	of outside and away from the work area.
Dust management	1: Very good The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles etc.	1: Very good The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles etc.	1: Very good The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material and piles etc.	1: Very good The contractor has applied dust control measures: covered truck transporting construction material; covered construction material and piles etc.
Noise and vibration	 1: very good The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	 1: Very good The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	 1: Very good The work generating big noise is implemented at daylight hours only. Noise was managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	1: Very good - The work generating big noise is implemented at daylight hours only. - Noise was managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00;
Waste water from construction site	1: Very good - Preliminarily treated waste water was discharged to water body surrounding the site; - Oil and fuel from machinery	3: Medium -Temporary toilet is placed near the kitchen. Around the toilet generates wastewater from the kitchen because no wastewater drainage Oil and fuel	 1: Very good Preliminarily treated waste water was discharged to water body surrounding the site; Oil and fuel from machinery was 	2: Good Wastewater is not preminary treated before disposed to surrounding water bodies. However, the wastewater quantity

		Compliance	ce Attained	
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
	was collected and disposed to a regulated site;	from machinery was collected and disposed to a regulated site;	collected and disposed to a regulated site;	is small, the negative impact is negligible. -All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills -The contractor has trained refuelling personnel in these procedures. The contractor has developed an accidental spill handling action plan
Prevention of soil erosion on construction site.	1: very good No soil erosion occurred	1: Very good No soil erosion occurred	1: Very good No soil erosion occurred	1: Very good No soil erosion occurred
Disposal of site waste	The environment was recovered. Construction waste were disposed to regulated site	 Very good Domestic solid waste is collected but disposed directly into the surrounding area Construction solid waste were disposed at Vinh Quynh Landfill, Vinh Quynh commune, Thanh Tri district, Hanoi. 	3: Medium - No garbage bin for solid waste collection at the construction site. Construction solid wastes were disposed at Nam Son Landfill, Soc Son district, Hanoi.	3: Medium - No garbage bin for solid waste collection at the construction site; Construction solid wastes were gathered at construction site before being disposed to regulated site, which is Xuan Son Land field
Storage and handling of: fuel and lubricants	1: very good - All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.	 Very good All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel was stored in properly 	1: Very good - All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.	1: Very good - All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.

	Compliance Attained			
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
	 Fuel was stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	 sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	 Fuel was stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	 Fuel was stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan
Community Safety from increased vehicle movements	 very good All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	 Very good All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	 1: Very good - All vehicles were properly maintained and operated in accordance with transportation laws. - All loads were properly secured and fugitive loads to be covered. 	 Very good All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered.
Workplace health and safety	1: very good - Contractor has abided: Vietnamese Labor Code as amended 2002 as follow: - Provided workers be with safety working environment	2: Good Contractor has abided: Vietnamese Labor Code as amended 2002 as follow: - Provided workers be with safety working environment	 2: Good Contractor has abided Vietnamese Labor Code as amended 2002 as follow: Provided workers be with safety working environment 	 Very good Contractor has abided Vietnamese Labor Code as amended 2002 as follow: Provided workers be with safety working environment

	Compliance Attained			
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
	 Erect warning signs and barriers around work areas Not allow drugs or alcohol on- site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 	 Erect warning signs and barriers around work areas Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 	 appropriate for the task they are employed. The workers are to be supplied onsite with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. 	 Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied onsite with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid.
Chance discovery of archaeological and cultural sites	No chance of discovery of archaeological and cultural sites	No chance of discovery of archaeological and cultural sites.	No chance of discovery of archaeological and cultural sites.	No chance of discovery of archaeological and cultural sites of discoveries.
Public access to site	1: Very good -Warning signs and barriers around work areas were	1: Very good - Warning signs and barriers around work	1: Very good -Warning signs and barriers around	1: Very good -Erect warning signs and barriers

		Compliance	e Attained	
EMP Requirements	Build new 110kV Substation at Noi Bai airport	Mo Lao 110kV Substation and 110kV Branches	Newly installation of T3 transformer - Thanh Xuan 110kV substation - E1.20	Rehabilitation of 110kV Son Tay S/S
	erected.	areas were erected.	work areas were erected.	around work areas.
	- Site could only be accessed with permission of contractor.	- Site could only be accessed with permission of contractor.	- Site could only be accessed with permission of contractor.	- Site could only be accessed with permission of contractor.
	- Visitors were warned against site hazards to avoid possible accident		- Visitors were warned against site hazards to avoid possible accident	 Visitors were warned against site hazards to avoid possible accident
Community and worker health and safety	No issue with Community and worker health and safety	 Very good Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; 	 the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; 	 Very good Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps;

5. SUMMARY OF ENVIRONMENTAL MONITORING

The compliance with requirements during construction phase is generally very good. Almost all impact mitigation measures have been implemented. Only a hygienic condition of worker camp of Mo Lao substation need to paid more concern.

Ambient environmental monitoring task has been not required for all subprojects under this loan due to small scope of civil work activities. Therefore, the monitoring activities will focus on EMP compliance monitoring.

5.1 Key Issues Identified

There were some key issues identified, the kitchen of worker camp were not neat, wastewater from kitchen and bathroom was stagnant around at Mo Lao construction site. In Thanh Xuan construction site, although the workers camp is quite far from the site, but there were quiet few toilets at site, in addition the garbage collection was missing at site. The contractors should pay more attention to comply with the regulation of the Environmental of subproject.

5.2 Issues from previous report(s).

No special issue from previous report

6. COMPLAINTS

No complaints regarding environmental issue have been recorded during report period between January and June 2016.

7. CONCLUSION AND RECOMMENDATION

7.1 Conclusions

- The Contractors of all subprojects have generally complied with and implemented measures to mitigate the environmental impacts
- All subprojects have no complaints from residents living surrounding the subproject area on the environment issues.

7.2 Recommendation

- The contractor of Mo Lao subproject should clean up the kitchen and solve immediately wastewater drainage problems from kitchen and bathroom.
- The contractors of Mo Lao and Thanh Xuan subprojects should address the existing problems raised as above
- Construction supervision Consultants should monitor closely the remediation activities of contractors.
- The completed subprojects, such as: Mo Lao, Thanh Xuan, Noi Bai, Son Tay need to clean-up construction site and rehabilitate surrounding environment.

Summary of Identified Issue and action required is presented in Table 8

Table 8:	Identified Issue and action required

Issues	Location	Targets/Solutions	Issue Closed (date)
Mo Lao s/s			
The phone number of the units involved or the hotline telephone number for people to contact if there are complaints was missing from the subproject information board	On site	The phone number of the contractors need to be provided in the subproject information board	Closed on April 10, 2016
No safety tape was hang around the holes dug for installation of pipes need warning tape around to prevent people passing by at night can fall into a pit	On site	The safety tape need to be provided around the holes dug for installation of pipes	Closed on April 10, 2016
Hole dug at the construction site was not warning tape around to prevent workers from falling into the pit in the evening	On site	The warning tape need to be located around the hole dug at the construction site	Closed on April 10, 2016
Excavated soil should be stored far away from the excavation area to avoid collapse	On site	Excavated soil need to be transported to a landfill	Closed on April 15, 2016
Temporary accommodations of workers are messy and unhygienic. It needs to clean up more tidy	Worker camps	Temporary accommodations of workers need to be clean up.	Closed on April 9, 2016
Kitchen area did not meet the requirements on environmental sanitation, although drinking water is bottled water	Worker camps	Kitchen area needs to be rearranged and clean up in more tidy.	Closed on April 13, 2016
Garbage is collected but disposed directly into the surrounding area	Worker camps	Garbage need to be collected and transported to a landfill	Closed on April 9, 2016
Temporary toilet is placed near the kitchen. Around the toilet generates wastewater from the kitchen because no wastewater drainage	Worker camps	Wastewater drainage need to collected	Closed on April 9, 2016
Thanh Xuan s/s	T	Ι	
Building materials along the way need to be stored orderly to prevent accident occurrence	On site	The fence which height 2.5m need to be set up around the building material	Closed on April 10
Place the subproject information board outside the entrance to the construction site with the contractor's/project owner's telephone number or a hotline for people to contact if there are complaints	On site	The subproject information board was moved to outside the entrance of site and the telephone number of subproject owner was complement to the board	Closed on April 9

Issues	Location	Targets/Solutions	Issue Closed (date)
Install mobile toilets for workers	On site	Toilet was need to be set up inside the construction site	Closed on April 9
Place a garbage collection bin and dispose solid waste at the regulated place.	On site	The garbage collection bin need to be placed inside the construction site and the solid waste need to be disposed at the regulated place.	Closed on April 10

APPENDIXES

Appendix A: Summary of the environmental requirements in EMP/IEE and in B&C documents Appendix B: PHOTOS OF SITE VISIT Appendix C: SITE ENVIRONMENTAL COMPLIANCE INSPECTION RECORD

Appendix A: Summary of the environmental requirements in EMP/IEE and in B&C documents

Environmental issues	Environmental requirements in the EMP/IEE	In B&C documents
Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc.).	 Sites are located so that they do not interfere with the welfare or social cohesion of surrounding communities Site is limited to reduce unnecessary clearing of vegetation. Sanitary soakage areas from offices and camps to be sited so that effluent is treated. No discharge of grey water or sewage allowed to surface water systems. Workshops to be provided with oil and water separators. Fuel storage areas not to be located within 20m of watercourse. Contractor's storage facilities may need to be surrounded by a security fence. Concrete batching areas to be provided with bunds to control movement of runoff to waterways. 	
Demarcation and clearing of RoW and ancillary facilities	 Define the 22m RoW width. Identify trees to be removed within the RoW and arrange to get approval for remove. Limit area to be cleared Identify areas with any significant vegetation Areas to be defined by a clear boundary. Clearing boundaries need to be shown to machinery operators. Cleared vegetative material to be offered to communities for use as fuel wood or If an impediment to work may otherwise be disposed of by clean burning fires. 	All environmental requirements in the EMP/IEE have been integrated into the B&C documents and the CEMP of NB-W01, NB- W02, MLAO-W01, MLAO-W02, TX-W01, ST-W01.
Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	 Limit area to be excavated. Topsoil to be removed and stored for reuse. Excavated material to be disposed of outside and away from the work area. At completion of work dumping areas to be re-top soiled and re-vegetated. 	
Dust management	 When dust is carried towards residential areas or becomes problematic on-site, the contractor is to apply dust control measures; 	
Noise and vibration	 If particular noisy work is implemented, the work may need to be limited to daylight hours. Noise not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	
Waste water to construction site	 Not allow to discharge waste water directly to water body surrounding the site; 	

	 Make a discharging canal surrounding the foundation holes to collect runoff water to reduce its turbidity before discharging it into water body surrounding the site ; Not allow to drop oil and fuel from machinery to site; 	
Prevention of soil erosion on construction site.	 Apply soil conservation and erosion protection technologies. Avoid operating machinery in adverse ground conditions. Protect and vegetate newly excavated areas as soon as possible 	
Disposal of site waste	 All waste materials to be collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal; 	
Storage and handling of: fuel and lubricants	 All fuel storage areas should be securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel should be stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All refueling to be done at least 20 m away from waterways by trained personnel All waste oil and oil filters to be collected and if possible recycled, otherwise to be disposed of to landfills The contractor needs to train refueling personnel in these procedures. The contractor has to develop an accidental spill handling action plan 	
Community Safety from increased vehicle movements	 All vehicles need to be properly maintained and operated in accordance with transportation laws. All loads should be properly secured and fugitive loads to be covered. Drivers are fined if ignore safety requirements. 	
Workplace health and safety	 Contractor should abide: Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Erect warning signs and barriers around work areas Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be 	

	 introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid.
Chance discovery of archaeological and cultural sites	 Chance discoveries should be notified to the SE who will report to the EO. EO would advise on procedure for dealing with chance discoveries.
Clearance and rehabilitation of Construction sites and removal of contractor's facilities.	 All solid waste should to be removed from sites and disposed in approved landfills. All contaminated soil should be removed. All sites must be rehabilitated and restored to original condition. Drainage should be re-established. Those activities should be included as part of final inspection before payment made.
Public access to site	 Erect warning signs and barriers around work areas. Site can only be accessed with permission of contractor. Visitors are to be warned against site hazards to avoid possible accident
Community and worker health and safety	 Promulgate, educate workers on the social problems. Implement measures of preventing HIV/AIDS; Provide good daily life conditions for workers in camps in terms of sanitation, safe water and cooking; Worker's camps shall be constructed in a high places and Local workers should be hired for normal works; Equip workers with labor protecting equipment and force them to wear during working time. Provide means of first aid, medicines at site and camps for workers; Ensure sanitation in worker's camps. Provide dust bin to collect wastes; Prohibit hunting and trading wild animals;

Appendix B: Photos of Site Visit on 7 April 2016

Mo Lao 110 kV substation and transmission line





Figure 7 Indiscriminate garbage dump

Figure 8. Toilet near the kitchen area. Around the toilet with black water backlog

The subproject to expand the 110 kV Thanh Xuan, installing new transformers T3 110kV substation





Appendix C: Site Environmental Compliance Inspection Record

PROJECT: New building 110kV No	oi Bai Airport a	and 110kV I	ine	Implementing agency:	HANC				
Component: Package No. ADB-HN No. ADB-HNPC-NB-W02	IPC-NB-W01;			Supervising agency:		Joint venture Infrastructure technical & Electricity construction Investr Consultance JSC			
Location: Site Office and Work-cam	np, Constructi	on sites of	substation	Contractor:	Power	Power Construction JSC No.1			
Date: 30/01/2016							(22.4.0)		
Report Period:			Phase:	Const	ruction (01/01/2016-30/01	/2016)			
1. Contractor Contractor Environmental Awarene	Yes/No	Rea	uired actions		Contrac	tor's responsibilit	V/ Comments		
	Contractor is aware of mitigation requirements? Yes Complying the commitme Contractor's EMP as well					Contractors are reque stated in contract signed	sted to prepare		s requirement
Contractor has a copy of EMP?	Yes	Keep copies of EMP, environn	nent documents, permits in si	te offices.	Contractor has respo applied by Employer du	nsibility of con e to the breach o	sequences a f the contract.	nd measures	
2. Compliance of inspection of n	mitigation me	easures							
Impact/Mitigation measures				1			Approved by: A	DB and HANC	<u>)I DPMB</u>
(From EMP list all mitigation measures of Mitig environmental impacts taker which need to be Yes/I completed)	n effe	gation ctiveness o 5)	Impact Observed/ Location	Required actions			Contractor's responsibility/ Comments	Implementin g agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, Y concrete batching areas etc).	Establishmentof ractor's-Sites are located inside the subproject area so that they do not interfere with the			 Wastewater is preliminary discharging into to surface Contractor's storage facilit security fence. 	e water boo	lies.	Well implemented	Contractor	Supervision Consultant
2) Demarcation and Y clearing of RoW and ancillary facilities	ſes	1	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	No clearance of vegetation	and other f	acilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: Y excavation, removal and disposal of unusable	ſes	1	-The excavated area was limited to the area needed for construction only.	Excavated material to be d the work area.	isposed of	outside and away from	Well implemented	Contractor	Supervision Consultant

(incompetent) materials							
4) Dust management	Yes	1	Truck transporting construction material; construction site	- The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	1	Truck transporting construction material; machine; construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	1	Construction site	Preliminarily treated waste water was discharged to water body surrounding the site;Oil and fuel from machinery was collected and disposed to a regulated site;	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	1	 No soil erosion occurred All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal; 	All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	1	- Fuel for all machine work at site. - Fuel fills in transformer.	 with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel were stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trainned refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	1	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		1		- Contractor has abided: Vietnamese Labor Code as amended 2002 as follow:	Well implemented	Contractor	Supervision Consultant

	Yes		- At site			 Erect warnin Not allow dru Control noise equipment ap The workers sanitary toilet Prepared word Before exect explained site Provided met 	kers be with safety w g signs and barriers a gs or alcohol on-site; e and dust provide propriate for the task are to be supplied c , washing and showe k safety regulation fo ution, workers nee e safety procedures. edical and first aid ed in first aid.	around work areas d all workers wit t they are employe on-site with: Potab ering facilities. or each activity d to be introduc	h safety d. le water, ced and				
11) Chance discovery of archaeological and cultural sites	Yes	1	At site and	l local comn	nune	the EO. EO i	eries will be notified t nforms the Departm I with the chance of c	nent of Culture-S		Well implem	ented	Contractor	Supervision Consultant
12) Public access to site	Yes	1	-At site			-Site could only	and barriers around v be accessed with pe varned against site	rmission of contrac	ctor	Well implem	ented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	1	At site and	camp		measures of pr -Workers in ca bathing and co -Workers have and wear them -First aid, med workers;	been equipped with during working time. licines are available llect wastes are provi	safe water and labor protecting ed e at site and ca ded in worker cam	hygienic quipment Imps for	Well implem	ented	Contractor	Supervision Consultant
3. Ambient Environme	ent	- I					Appro	ved by:			1	1	
Parameters Date/Location	n Measur		lonitoring quipment	Resul	t	Standard	% exceed	Required actions	respons	actor's sibility/C nents		ementing gency	Supervising agency
A Environmentel hei		Penarting P	oriod (if and									Approved b	\ <i>!</i>
4. Environmental Incidents Environmental Incidents (Accidents, spills complaint No Environmental Incident	Date	/Location	Repo	rt by	Descrip	otion/Location	Executed actions	Follow-up Reaction	•	Implem	enting a	Approved b Igency	y: Supervising agency

5. Summary of Action required and			
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicates actions are required)
			Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Le Anh Duc		Date:
Signature:			Date: 30 January 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110kV No	i Bai Airport and 1	10kV line	Implementing agency:			HANOI DPMB			
Component: Package No. ADB-HN No. ADB-HNPC-NB-W02	PC-NB-W01;		Supervising agency:		e Infrastructure struction Investme ric power design s				
Location: Site Office and Work substation	k-camp, Construe	ction sites of	Contractor:						
Date: 28/02/2016			Phase:			Construction (01/02/2016-28/02	(2016)	
Report Period: 6. Contractor			Phase.			Construction (01/02/2016-28/02	/2016)	
Contractor Environmental Awarene	SS	Yes/No	Requ	uired actions		Contractor's respo	onsibility/ Commer	nts	
Contractor is aware of mitigation re	quirements?	Yes	Complying the complying the complying the complexity document and Contract	nitments stated in Bidding ctor's EMP as well		are requested to p tract signed with D		as requirement	
Contractor has a copy of EMP?		Yes				as responsibility of consequences and measures mployer due to the breach of the contract.			
7. Compliance of inspection of r	nitigation measu	res							
Impact/Mitigation measures						Approved by: AD	B and HANOI DP	MB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectivenes s (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/ Comments	Implementing agency	Supervising agency	
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Yes	1	-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities	 Wastewater is preliminary treated by settle chamber before discharging into to surface water bodies. Contractor's storage facilities have been surrounded by a security fence. 		Well implemented	Contractor	Supervision Consultant	
2) Demarcation and clearing of RoW and ancillary facilities	Yes	1	The subproject site is bounded by fence. No clearance of	No clearance of vegetation facilities is needed	and other	Well implemented	Contractor	Supervision Consultant	

			vegetation and other facilities is needed				
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	1	-The excavated area was limited to the area needed for construction only.	Excavated material to be disposed of outside and away from the work area.	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	1	Truck transporting construction material; construction site	-The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	1	Truck transporting construction material; machine; construction site	-The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00;	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	1	Construction site	Preliminarily treated waste water was discharged to water body surrounding the site; - Oil and fuel from machinery was collected and disposed to a regulated site;	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	1	 No soil erosion occurred All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal; 	All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	1	- Fuel for all machine work at site. - Fuel fills in transformer.	- All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.	- Well implemented	Contractor	Supervision Consultant

	Yes			 Fuel were stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trainned refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan All vehicles were properly maintained and 			
9) Community Safety from increased vehicle movements	Tes	1	- All vehicles and loads at site.	operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered.	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	1	- At site	Contractor has abided: Vietnamese Labor Code as amended 2002 as follow: Provided workers be with safety working environment Erect warning signs and barriers around work areas Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid.	- Well implemented	Contractor	Supervision Consultant

iscovery of al and cultural sites	Yes	1		commune 1		Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries.			- Well implemen	ted	Contractor	Supervision Consultant
cess to site	Yes	1	-At site		areas wer Site cou permissio Visitors w	e erecte Id only n of con ere war	ed. y be acc itractor. ned against	essed with	- Well implemen	ted	Contractor	Supervision Consultant
ty and worker fety	Yes	1	At site and	camp	social p preventing Workers water and Workers I protecting during wo First aid, and camp Dust bins	roblems HIV/Al in cam hygieni nave be equip rking tin medicin s for wo to colle	s. and m IDS; ips are pro- ic bathing ar een equippe ment and ne. nes are avai orkers; ect wastes a	easures of ovided, safe od cooking; d with labor wear them lable at site	- Well implemen	ted	Contractor	Supervision Consultant
bient Environment									Approved	by:		•
Date/Location	Measure			Result	Standar	b	% exceed	Required actions	responsib	oility/Co	Implementing agency	Supervising agency
	During Report	ing Period (if								Approved by:	
nental Incidents spills complaint)	Date/Locatio	n Re	eport by			Execute	ed actions			Implem	nenting	Supervising agency
	al and cultural sites cess to site ty and worker fety bient Environment Date/Location ironmental Incidents mental Incidents	Iscovery of al and cultural sites cess to site Yes ty and worker fety Yes Dient Environment Date/Location Measure ironmental Incidents Date/Location	Iscovery of al and cultural sites 1 cess to site Yes 1 ty and worker fety Yes 1 Dient Environment Yes 1 Date/Location Measured by Measured by Image: Source of the state of t	iscovery of al and cultural sites Yes 1 commune cess to site Yes 1 -At site ty and worker fety Yes 1 -At site ty and worker fety Yes 1 At site and Dient Environment Yes 1 At site and Date/Location Measured by Monitoring Equipment Image: Source of the sou	Yes 1 commune al and cultural sites Yes 1 -At site cess to site Yes 1 -At site ty and worker fety Yes 1 At site and camp ty and worker fety Yes 1 At site and camp Dient Environment Measured by Monitoring Equipment Result Date/Location Measured by Monitoring Equipment Result ironmental Incidents Data/Location Penort by Description	iscovery of al and cultural sites Yes 1 commune SE who w the Depar Tourism to discoverie areas wer Site cou permission Visitors wi to avoid pi Workers social pi preventing Workers social pi preventing Workers social pi preventing Workers areas wer Site cou permission Visitors wi to avoid pi Workers social pi preventing Workers ater and Workers fi potecting during wo First aid, and camp Dust bins in worker bient Environment Measured by Monitoring Equipment Result Standard Standard	Secovery of al and cultural sites Yes 1 commune SE who will report the Department of Tourism to deal will discoveries. cess to site Yes 1 -At site Warning signs at areas were erects Site could onl permission of corr Visitors were war to avoid possible ty and worker fety Yes 1 At site and camp Workers have to social problems preventing HIV/A Workers have to social problems preventing HIV/A Workers in carr water and hygien Used to avoid possible benet Environment Yes 1 At site and camp Workers in carr water and hygien Used to avoid possible Date/Location Measured by Monitoring Equipment Result Standard informental Incidents Date/Location Measured by Monitoring Equipment Result Standard	iscovery of al and cultural sites Yes 1 commune SE who will report to the EO. the Department of Culture-Sp Tourism to deal with the chan discoveries. beess to site Yes 1 -At site Warning signs and barriers a areas were erected. beess to site Yes 1 -At site Warning signs and barriers a areas were erected. ty and worker fety Yes 1 -At site Workers have been educa social problems. and m preventing HIV/AIDS; Workers have been educa social problems. and m preventing HIV/AIDS; Workers have been educa social problems. and m preventing HIV/AIDS; Workers have been equippent and camps for workers; Dust bins to collect wastes a in worker camps; point Environment Measured by Monitoring Equipment Result Standard % exceed point Environmental Incidents Date/Location Measured by Monitoring Equipment Result Standard % exceed	iscovery of al and cultural sites Yes 1 commune SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries. bess to site Yes 1 -At site Warning signs and barriers around work areas were erected. Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident ty and worker fety Yes 1 At site and camp Workers have been educated on the social problems. and measures of Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; Date/Location Measured by Monitoring Equipment Result Standard % exceed Required actions ironmental Incidents Date/Location Measured by Monitoring Equipment Result Standard % exceed Required actions	iscovery of al and cultural sites Yes 1 commune SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries. - Well implement bess to site Yes 1 -At site Warning signs and barriers around work areas were erected. - Well implement bess to site Yes 1 -At site Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident - Well implement ty and worker fety Yes 1 At site and camp Workers in camps are provided, safe water and hygienic bathing and cooking; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers collect wastes are provided in worker camps; - Well implement bient Environment Monitoring Equipment Result Standard % exceed Required actions Contra responsit mme bient Location Measured by Monitoring Equipment Result Standard % exceed Required actions Contra responsit mme commune Implement Implement Implement Implement Implement ty and worker fety Yes 1 At site and camp Standard % e	iscovery of al and cultural sites Yes 1 commune SE who will report to the EO. EO informs the Department of Culture-Sport and discoveries. - Well implemented bess to site Yes 1 -At site Warning signs and barriers around work areas were erected. Site could only be accessed with permission of contractor. Visions were warned against site hazards to avoid possible accident - Well implemented ty and worker fety Yes 1 At site and camp Workers have been educated on the social problems, and measures of preventing HI/VAIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipment and wear them during working ime. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; - Well implemented Date/Location Measured by Monitoring Equipment Result Standard % exceed Required actions Contractor's responsibility/Co mments remental Incidents Date/Location Measured by Monitoring Equipment Result Standard % exceed Required actions Contractor's responsibility/Co mments	iscovery of al and cultural sites 1 1 commune SE who will report to the EO. EO informs the Department of Culture-Sport and and cultural sites 1 1 commune to deal with the chance of discoveries. I commune the department of Culture-Sport and the Department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and available and the chance of discoveries. I commune the department of Culture-Sport and implemented in the chance of discoveries. I commune the department of Culture-Sport and implemented in the chance of discoveries. I commune the department of Culture-Sport and implemented in the chance of available at site and camps for workers; Dust bins to collect wastes are provided in the depart of responsibility(Coll Implementing agency implemental Incidents During Reporting Period (if the sport by the depart of the during worker is the du

10. Summary of Action required and o	bserved (if any)		
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicates actions are required)
			Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Le Anh Duc		Date:
Signature:			Date: 28 February 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110k	V Noi Bai Airport a	and 110kV line			Implementing agency:	HANOI DPM	В	
Component: Package No. ADE No. ADB-HNPC-NB-W01	B-HNPC-NB-W02				Supervising agency:	Joint venture Infrastructure Technical & Electricity construction Investment consultance JSC and Electric power design survey JSC		
Location: Site Office and Work	k-camp, Construct	on sites of UGC)		Contractor:	Corporation I	Investment Consul	ting Electrical
Date: 31/03/2016							& Number five, Po JSC No.1, Power I JSC.	
Report Period:					Phase:	Construction	(01/03/201-31/03/	2016)
11. Contractor							• •	· · · ·
Contractor Environmental Awa		-	Required a				onsibility/ Comme	
Contractor is aware of mitigation requirements?	on Yes	document	and Contractor's El	MP as well	stated in cont	ract signed with		-
Contractor has a copy of EMP	? Yes	Keep copi in site offic		ment documents, permits			of consequences e breach of the co	
12. Compliance of inspection	n of mitigation me	easures						
Impact/Mitigation measures			1	1		Approved by: A	DB and HANOI DF	PMB
environmental impacts	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/ Comments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Yes	1	-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities	-Wastewater is prelimina settle chamber before of into to surface water bo -Contractor's storage fac been surrounded by a s Concrete batching area with bunds to control mo runoff to waterways.	discharging odies cilities have security fence. s are provided	Well implemented	Contractor	Supervision Consultant
2) Demarcation and	Yes	2	The subproject	- Limit area was cleare	ed. In the area	Well	Contractor	Supervision

clearing of RoW and ancillary facilities			site is bounded by fence. No clearance of vegetation and other facilities is needed	were only agricultural crops (rice, vegetable) - No significant vegetation	implemented		Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material and piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	The work generating big noise is implemented at daylight hours only.	Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00;	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Preliminarily treated waste water was discharged to water body surrounding the site; - Oil and fuel from machinery was collected and disposed to a regulated site;	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- At the boundary of UGC route	All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in	- All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.	- Well implemented	Contractor	Supervision Consultant

			transformer.	 Fuel were stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trainned refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 			
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided: Vietnamese Labor Code as amended 2002 as follow: Provided workers be with safety working environment Erect warning signs and barriers around work areas Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on- site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. 	- Well implemented	Contractor	Supervision Consultant

Environm	ronmental Incide ental Incidents spills complaint)	Date	Corting P			ort by	Description n	/Locatio	Executed actions	Follow-up Required actions	Approved by: Implementing agency	Supervising agency
										mments		
Parameters	Date/Location		d by	Monito Equipr		Result	Standard	% exceed	Required actions	Contractor's responsibility/Co	Implementin g agency	Supervising agency
13) Communit health and saf		Yes	2	2	At site a camp		-Workers ha social prot preventing -Workers in o water and cooking; -Workers ha labor prote them durir -First aid, me site and ca Dust bins to	ve been edu plems. and n HIV/AIDS; camps are p hygienic bat ve been equ ecting equipr g working tii	cated on the neasures of rovided, safe thing and ipped with ment and wea me. available at rkers; tes are	r Well implemented	Contractor	Supervision Consultant
12) Public acc	ess to site	Yes	2	2	-At site		work areas -Site could permission Visitors we	were erect only be a of contract	accessed with or. against site	h - Well implemented	Contractor	Supervision Consultant
11) Chance di archaeologica sites		Yes	2)	At site a commu	and local Ine	the SE who informs the	will report to Department ourism to de		- Well implemented	Contractor	Supervision Consultant
									st aid facilities qualified in firs	1 1		

15. Summary of Action required and obs	served (if any)		
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicates actions are required)
			Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Le Anh Duc		Date:
Signature:			Date: 31 March 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: «SUBPROJECT»	»				plementing jency:	HANOI DPMB				
Component: Package No. Al No. ADB-HNPC-NB-W02	DB-HNPC-NE	3-W01			ipervising jency:	construction	Joint venture Infrastructure Technical & Electricity construction Investment consultance JSC and Electric power design survey JSC			
Location: Site Office and Wo	rk-camp, Co	nstruction sites	of substation	Co	ontractor:		vestment Consult			
Date: 29/04/2016							Number five, Pow			
Report Period:				Ph	nase:		01/04/2016-29/04			
16. Contractor						· · · · · · ·				
Contractor Environmental Aw	vareness	Yes/No	Require	ed actions		Contractor's re	esponsibility/ Com	ments		
Contractor is aware of mitiga requirements?	ntractor is aware of mitigation Yes Bidding document and Contractor				in Contractors are requested to prepare EMP and as required			and as requirement		
Contractor has a copy of EM	Contractor has a copy of EMP? Yes Keep copies documents, perm				IP, environment Contractor has responsibility of consequences and meas applied by Employer due to the breach of the contract.					
17. Compliance of inspection	on of mitigat	tion measures								
Impact/Mitigation measures			1	1		Approved by: AD	B and HANOI DP	MB		
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectivenes s (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/C omments	Implementing agency	Supervising agency		
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Establishment of actor's facilities ps, offices, quarries, Yes 1 bodies. rete batching areas		discharging into to subodies. - Contractor's storag have been surround	er before rface water ge facilities	Well implemented	Contractor	Supervision Consultant			
2) Demarcation and Yes The subproject No cleara				No clearance of vegeta other facilities is neede		Well implemented	Contractor	Supervision Consultant		

			clearance of vegetation and other facilities is needed				
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	1	-The excavated area was limited to the area needed for construction only.	Excavated material to be disposed of outside and away from the work area.	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	1	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	1	The work generating big noise is implemented at daylight hours only.	Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00;	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	1	Construction site	Preliminarily treated waste water was discharged to water body surrounding the site; - OI and fuel from machinery was collected and disposed to a regulated site;	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	1	 No soil erosion occurred All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an 	All waste materials were collected and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant

			approved landfill				
8) Storage and handling of: fuel and lubricants	Yes	1	site for disposal; - Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas were securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel were stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trainned refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	1	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	1	- At site	 Contractor has abided: Vietnamese Labor Code as amended 2002 as follow: Provided workers be with safety working environment Erect warning signs and barriers around work areas Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the 	- Well implemented	Contractor	Supervision Consultant

				 task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 			
11) Chance discovery of archaeological and cultural sites	Yes	1	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	1	-At site	 Warning signs and barriers around work areas were erected. Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	1	At site and camp	-Workers have been educated on the social problems. and measures of preventing HIV/AIDS; -Workers in camps are provided, safe water and hygienic bathing and cooking; -Workers have been equipped with labor protecting equipment and wear them during working time. -First aid, medicines are available at site and camps for workers;	- Well implemented	Contractor	Supervision Consultant

						s to collect d in worker o				
18. Amb	pient Environment							Approved by:		
Parameters	Date/Location	cation Measured by Monitorir Equipme			Standard	% excee	d Requir action	: IASOOOSIOUUV/C.	Implementing agency	Supervising agency
	ironmental Incident	s During Report	ting Period (if any)					Approved by:	
	ental Incidents spills complaint)	Date/Locatio	on Re	port by	Descriptio	n/Location	Executed actions	Follow-up Required actions	Implementing agency	Supervising agency
20. Sum	nmary of Action req	uired and obser	ved (if any)							
	Required actions		Timefram (e.g in a we		Re	sponsible P	arty	(to be completed if ir	Monitoring hspection/monitorin are required)	g indicates actions
								Actions implemented		
								Follow-up action requ	iired:	
								Prepared by:		
Monitored by:		Le Ar	nh Duc					Date:		
Signature:								Date: 29 April 2016		
Notes:										
Attachment: (pictures of construct	ion site)								

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110	kV Mo Lao ai	nd 110kV lir	ne			mplementing				
Component: Package No. AD No. ADB-HNPC-ML-W01	B-HNPC-ML	-W02			S	agency: Supervising agency:		Vietnam electrical construction consultant service JSC.		
Location: Site Office and Wor	k-camp, Con	struction sit	es of	substation		Contractor:		ruction JSC No.1		
Date: 30/01/2016 Report Period:					F	Phase:	Construction	(01/01/2016-30/	(01/2016)	
21. Contractor					-					
Contractor Environmental Aw	areness	Yes/No		Require	d actions		Contractor's respo	onsibility/ Comm	ents	
Contractor is aware of mitigat requirements?	tion	Yes		nplying the commitrument and Contracto	ments stated in Bidding r's EMP as well		s are requested it stated in contract			
Contractor has a copy of El	MP?	Yes		ep copies of EMP, mits in site offices.	environment documents,		has responsibility Employer due to th			
22. Compliance of inspectio	on of mitigati	on measur	es							
Impact/Mitigation measures	1	1		1	1		Approved by: AD	B and HANOI D	PMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiven (1 to 5)		Impact Observed/ Location	Required actions		Contractor's responsibility/C omments	Implementing agency	Supervising agency	
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Yes	1		-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities	 Sites are located subproject area so that interfere with the welfa cohesion of communities Wastewater flows into t wastewater settle char discharging into to su bodies is needed Contractor's storage fa been surrounded by fence. 	are or social surrounding toilet area. A mber before urface water acilities have	Well implemented	Contractor	Supervision Consultant	
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2		The subproject site is bounded by fence. No	The subproject site is fence. No clearance o and other facilities is needed.	of vegetation	Well implemented	Contractor	Supervision Consultant	

			clearance of vegetation and other facilities is needed				
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running 	- Well implemented	Contractor	Supervision Consultant

				over to environment. - All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills - The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan			
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 	- Well implemented	Contractor	Supervision Consultant
11) Chance discovery of		2	At site and local	Chance discoveries will be notified	- Well	Contractor	Supervision

archaeologica sites	al and cultural	Yes		comm	une	EO informs	the Depai	oort to the EO. rtment of urism to deal	implemented		Consultant
12) Public acc	cess to site	Yes	2	-At site		around wo -Site could permissior Visitors we	ing signs rk areas. only be of contra re warne	and barrier accessed with actor. d against site	n - Well implemented	Contractor	Supervision Consultant
13) Communi health and sa		Yes	2	At site	and camp	 hazards to avoid possible accident Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; 			of I, d - Well implemented it	Contractor	Supervision Consultant
23. Amb	ient Environme	ent							Approved by:		•
Parameters	Date/Locatio	n Meası		Monitoring Equipment	Result	Standard	% exce	ed Require actions		Implement ing agency	Supervising agency
			_								
	ronmental Incid	lents During	Reporting I	Period (if ai	ny)	· · · · ·		· ·	_ ;	Approved by:	
	ental Incidents spills complain	t) Dat	e/Location	R	eport by	Description n	/Locatio	Executed actions	Follow-up Required actions	Implementing agency	Supervising agency
25. Sum	mary of Action	required and	observed	(if any)				<u> </u>			[]
	Required actions	-		Timeframe e.g in a wee		Resp	onsible P	arty	(to be completed if i action	ns are required	
									Actions implemented		
	ole latrines as req			tely implem		Contractor			Supervision Consulta		
Provide dange	erous warning si	gns at storage	e Immedia	tely implem	ented	Contractor			Supervision Consulta	ant	

of fuel		
		Follow-up action required:
		Prepared by:
Monitored by:	Ho Van Nghiem	Date:
Signature:		Date: 30 January 2016
Notes:		
Attachment: (pictures of construction site)		

- 1. Very good (meet all requirements)
- 2. Good (take main measures))
- 3. Medium (take several measures)

- 4. Poor (take few measures)
- 5. Very poor (take very few measures)

PROJECT: New building 1	10kV Mo Lao	and 110kV lin	1e	li	mplementing agency:	HANOI DPMB		
Component: Package No. / No. ADB-HNPC-ML-W01	ADB-HNPC-N	/L-W02		S	Supervising agency:		rical construction	on consultant
Location: Site Office and W	/ork-camp, C	onstruction site	es of substation	(Contractor:	service JSC. Power construct	tion JSC No.1	
Date: 28/02/2016								
Report Period:				F	hase:	Construction (0	1/02/2016-28/02/	(2016)
26. Contractor					-		1.0	
Contractor Environmental A		Yes/No	Required			tor's responsibility		
Contractor is aware of mitig requirements?	gation	Yes	Complying the commitme document and Contractor		Contractors are requested contract signed with DPME	3	•	
Contractor has a copy of El	MP?	Yes	Keep copies of EMP, en permits in site offices.	nvironment documents,	Contractor has responsibi Employer due to the bread			res applied by
27. Compliance of inspect		ation measur	es		· · · ·			
Impact/Mitigation measures	6					Approved by: A	DB and HANOI	OPMB
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectivenes (1 to 5)	s Impact Observed/ Location	Required actions		Contractor's responsibility/ Comments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Yes	1	-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities	that they do not inte social cohesion of sur - Wastewater flows inte	e facilities have been	Well implemented	Contractor	Supervision Consultant
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed		is bounded by fence. No ion and other facilities is	Well implemented	Contractor	Supervision Consultant
3) Preparation of site:	Yes	2	-The excavated area	- The excavated area w	as limited to the area	Well	Contractor	Supervision

excavation, removal and disposal of unusable (incompetent) materials			was limited to the area needed for construction only.	needed for construction only - Excavated material was disposed of outside and away from the work area.	implemented		Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	 All vehicles and loads at site. 	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant

10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 	- Well implemented	Contractor	Supervision Consultant
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	-At site	 -Erect warning signs and barriers around work areas. -Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	2	At site and camp	 -Workers have been educated on the social problems. and measures of preventing HIV/AIDS; -Workers in camps are provided, safe water and hygienic bathing and cooking; -Workers have been equipped with labor protecting equipment and wear them during working time. -First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker 	- Well implemented	Contractor	Supervision Consultant

						camps;					
28. Amb	ient Environment					· · · · ·			Approved by:		
Parameters	Date/Location	Measure		onitoring uipment	Result	Standard	% exceed	d Require actions		Implementing agency	Supervising agency
29. Envi	ronmental Incident	s Durina R	eporting P	eriod (if an	v)					Approved by:	
Environm	ental Incidents spills complaint)		ocation		ort by	Descriptior n	n/Locatio	Executed actions	Follow-up Required actions	Implementing agency	Supervising agency
30 Sum	mary of Action reg	uired and (observed (i	f anv)							
	30. Summary of Action required and Required actions		Timeframe (e.g in a week)			Resp	oonsible Pa	rty	Monit (to be completed if inspection/m requi	nonitoring indicate	s actions are
Provide suita ADB	ble latrines as rec	quired by	Immediately implemented		Contractor			Actions implemented: Supervision Consultant			
Provide dan storage of fue		signs at	Immediate	ely impleme	nted	Contractor			Supervision Consultant		
									Follow-up action required: Prepared by:		
Monitored by:			Ho Van Ng	ghiem					Date:		
Signature:				•					Date: 28 Feb 2016		
Notes: Attachment: (pictures of constructi	on site)									

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 11	0kV Mo Lao	and 110kV line			Implementing agency:	HANO	I DPMB		
Component: Package No. A No. ADB-HNPC-ML-W01	DB-HNPC-M	IL-W02			Supervising agency:		ietnam electrical construction consultant service J		
Location: Site Office and Wo	ork-camp, Co	onstruction sites	of substation		Contractor:	Power	construction JSC	No.1.	
Date: 31/03/2016									
Report Period:					Phase:	Constr	ruction (01/03/2016	6-31/03/2016)	
31.Contractor			De suiss de		0.0	- 1			
Contractor Environmental A	wareness	Yes/No	Required a		Co	ntractor's	s responsibility/ Co	mments	
Contractor is aware of mitiga requirements?	ation		omplying the comm dding document and (ell		Contractors are requested signed with DPMB	d to prep	pare EMP and as	requirement stat	ed in contract
Contractor has a copy of EM		Yes do	eep copies of E cuments, permits in sit		Contractor has responsibi due to the breach of the co		nsequences and r	measures applied	by Employer
32. Compliance of inspecti		ition measures							
Impact/Mitigation measures			1	1			Approved by: AD	B and HANOI DF	'MB
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions			Contractor's responsibility/ Comments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	Yes	1	-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities	they do not interfere cohesion of surroun - Wastewater flows ir chamber before disc bodies is needed	ide the subproject area so the with the welfare or social ding communities not toilet area. A wastewater charging into to surface wate	settle er	Well implemented	Contractor	Supervision Consultant
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and		is bounded by fence. No clea and other facilities is needed		Well implemented	Contractor	Supervision Consultant

			other facilities is needed				
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		- Contractor has abided Vietnamese Labor Code as amended 2002 as follow:.	- Well implemented	Contractor	Supervision Consultant

Parameters	Date/Locat	on Measu	reanv	toring Resu	It Standard % exceed	Required actions	Contractor's responsibility/ Comments	Implementing agency	Supervising agency
33. Ambi	ent Environr	nent	-			Approved by:			
13) Community and Yes 2 worker health and safety		At site and camp	 -Workers have been educated on t and measures of preventing HIV/. -Workers in camps are provided, s hygienic bathing and cooking; -Workers have been equipped with equipment and wear them during -First aid, medicines are available workers; Dust bins to collect wastes are pro camps; 	AIDS; afe water and labor protecting working time. at site and camps for vided in worker	- Well implemented	Contractor	Supervision Consultant		
12) Public acc	ess to site	Yes	2	-At site	-Erect warning signs and barriers a -Site could only be accessed contractor. Visitors were warned against si possible accident	with permission of te hazards to avoid	- Well implemented	Contractor	Supervision Consultant
11) Chance dis archaeological cultural sites	· ·	Yes	2	At site and local commune	Chance discoveries will be notifie report to the EO. EO informs the I Culture-Sport and Tourism to dea discoveries.	Department of I with the chance of	- Well implemented	Contractor	Supervision Consultant
		Yes		- At site	 Provided workers be with environment Not allow drugs or alcohe Control noise and dust p with safety equipment appropriate employed. The workers are to be su Potable water, sanitary toilet, was facilities. Prepared work safety reg activity Before execution, worker introduced and explained site safe Provided medical and first aid facil person qualified in first aid. 	ol on-site; rovided all workers e for the task they are upplied on-site with: hing and showering gulation for each rs need to be ety procedures.			

34. Environmental Incidents	During R	eporting Pe	riod (if any)				Approved by:	
Environmental Incidents (Accidents, spills complaint)	Date/L	/Location Report by		Description/Locatio Executed n actions		Follow-up Required actions	Implementing agency	Supervising agency
35. Summary of Action requi	red and c	bserved (if	any)		•	·		
Required actions		-	imeframe g in a week)	Responsible P	arty	Monitoring (to be completed if inspection/monitoring indicates actions are required)		actions are
						Actions implemented:	•	
Provide suitable latrines as required	by ADB	Immediately implemented		Contractor		Supervision Consultant		
Provide dangerous warning signs at of fuel	storage	Immediately implemented		Contractor		Supervision Consultant		
						Follow-up action required:		
						Prepared by:		
Monitored by:		Ho Van Ng	hiem			Date:		
Signature:						Date: 31 March 2016		
Notes:								
Attachment: (pictures of construction	n site)							

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110	kV Mo Lao ar	nd 110kV line			Implementing agency:	HANOI DPM	B	
Component: Package No. AD No. ADB-HNPC-ML-W01	B-HNPC-ML	-W02			Supervising agency:	Vietnam ele service JSC.		tion consultant
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contractor:	Power constr	ruction JSC No.1	
Date: 29/04/2016					-			
Report Period:					Phase:	Construction	(01/04/2016-29/	(04/2016)
36. Contractor					1			
Contractor Environmental Aw	areness			Yes/No	Required	actions	Com	responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	stated in Bidding	Complying the commitments stated in Bidding document and Contractor's EMP as well		IP and as ated in contract
Contractor has a copy of EMI	> ?			Yes	environment			
37. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: A	DB and HANOI	DPMB
(From EMP list all mitigation measures of environmental impacts which need to be completed)	nitigation measures of Mitigation Mitigation Impact nvironmental impacts taken effectiveness Observed/ hich need to be Yes/No (1 to 5) Location				Required actions		Implementing agency	Supervising agency
1)Establishmentof contractor's-Sites are located inside the subproject area so that they do not interfere with1)Establishmentof contractor's-Sites are located inside the subproject area so that they do not interfere with				 Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities Wastewater flows into toilet area. A wastewater settle chamber before 		Well implemented	Contractor	Supervision Consultant

			the welfare or social cohesion of surrounding communities	discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work	- All fuel storage areas are securely fenced and provided with oil and water	- Well implemented	Contractor	Supervision Consultant

			at site. - Fuel fills in transformer.	 separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 			
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol onsite; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first 	- Well implemented	Contractor	Supervision Consultant

							aid.					
11) Chance d archaeologica sites	iscovery of I and cultural	Yes	2	1	At site a commu	and local ne	Chance disco the SE who w informs the De and Tourism t discoveries.	ill report to the partment of	he EO. EO ⁵ Culture-Spo		Contractor	Supervision Consultant
12) Public acc	cess to site	Yes	2	-#	-Erect warning signs and barriers around work areas. At site -Site could only be accessed with -		th - Well implemented	Contractor	Supervision Consultant			
13) Communi health and sa		Yes	2	A	t site a	nd camp	 Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; 		or - Well implemented	Contractor	Supervision Consultant	
38. Amb	ient Environmer	nt						• ·		Approved by:		·
Parameters	Date/Location	Meas	ured by	Monito Equipn		Result	Standard	% exceed	Required actions	Contractor's responsibility/Co mments	Implement ing agency	Supervising agency
39. Envi	ronmental Incide	ents During	Reporting	g Period	d (if any	y)					Approved by:	
	Environmental Incidents Accidents, spills complaint) Date/Locati				Rep	port by	Description/Locatio Executed n actions Re			Follow-up Required actions	Implementing agency	Supervising agency

40. Summary of Action required and of	observed (if any)		
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicates actions are required)
			Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Ho Van Nghiem		Date:
Signature:			Date:29 April 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110	kV Mo Lao ar	nd 110kV line			Implementing agency:	HANOI DPMB		
Component: Package No. AD No. ADB-HNPC-ML-W01	B-HNPC-ML-	W02			Supervising agency:	Vietnam elect service JSC.		ion consultant
Location: Site Office and Wor	k-camp, Cons	struction sites of	substation		Contractor:	Power construct	tion JSC No.1	
Date: 30/05/2016					-			
Report Period:					Phase:	Construction (07	1/05/2016-30/05	/2016)
41.Contractor					1		0 1 1	
Contractor Environmental Aw	areness			Yes/No	Required	actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	Complying the commitments stated in Bidding document and Contractor's EMP as well			IP and as ated in contract
Contractor has a copy of EMF	₽?			Yes	Keep copies of E documents, permi		of conseq measures	applied by to the breach
42. Compliance of inspectio	on of mitigation	on measures						
Impact/Mitigation measures						Approved by: AD	B and HANOI D	PMB
(FromEMPlistallMitigationMitigationImpactmitigationmeasuresofMitigationMitigationImpactenvironmentalimpactstakeneffectivenessObserved/whichneedtobeYes/No(1 to 5)Locationcompleted)LocationLocationLocationLocation				Required actions		Contractor's responsibility/C omments	Implementin g agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).				-Sites are located inside area so that they do no welfare or social cohes communities - Wastewater flows into wastewater settle chan	ot interfere with the sion of surrounding toilet area. A	Well implemented	Contractor	Supervision Consultant

			the welfare or social cohesion of surrounding communities	discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	The excavated area was limited to the area needed for construction.	 The excavated area was limited to the area needed for construction only. Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	Fuel for all machine work	- All fuel storage areas are securely fenced and provided with oil and water	- Well implemented	Contractor	Supervision Consultant

			at site.	separators. Fuel hoses and shut off valve to be locked.			
			Fuel fills in	- Fuel is stored in properly sealed			
			transformer.	containers. Regularly check its locks to			
				prevent fuel from running over to			
				environment.			
				- All waste oil and oil filters was collected			
				and if possible recycled, otherwise to be			
				disposed of to landfills			
				- The contractor has trained refueling			
				personnel in these procedures. The			
				contractor has developed an accidental spill handling action plan			
	Yes			- All vehicles were properly			
9) Community Safety from	100		All vehicles	maintained and operated in accordance	\ <i>\\</i>	Contractor	Supervision
increased vehicle		2	and loads at	with transportation laws.	- Well		Consultant
movements			site.	- All loads were properly secured and	implemented		
				fugitive loads to be covered.			
				- Contractor has abided Vietnamese			
				Labor Code as amended 2002 as			
				follow:			
				- Provided workers be with safety			
				working environmentNot allow drugs or alcohol on-site;			
				- Control noise and dust provided all			
	Yes		At site	workers with safety equipment			
	105		710 5100	appropriate for the task they are			
				employed.			a
10) Workplace health and		2		- The workers are to be supplied on-site	- Well	Contractor	Supervision
safety				with: Potable water, sanitary toilet,	implemented		Consultant
				washing and showering facilities.			
				- Prepared work safety regulation for			
				each activity			
				- Before execution, workers need to be			
				introduced and explained site safety			
				 procedures. Provided medical and first aid facilities 			
				together with a person qualified in first			
				aid.			
				aiu.	1		

11) Chance di archaeologica sites		Yes	2	At site and commune		Chance disco the SE who w informs the D and Tourism t discoveries.	ill report to epartment	the EO. EO of Culture-Sp	ort - Well	Contractor	Supervision Consultant
12) Public acc	cess to site	Yes	2	At site	-	Erect warning work areas. Site could permission of /isitors were v to avoid possi	only be contractor varned aga	accessed ainst site haza	with - Well implemented	Contractor	Supervision Consultant
13) Communit health and saf		Yes	2	At site and	- camp	Workers hav social proble preventing HI Workers in of water and hyg Workers have protecting ec during workin. First aid, med and camps fo Dust bins to co worker camps	e been e ems. and V/AIDS; camps are gienic bath been equ quipment g time. dicines are r workers; sollect waste	educated on d measures e provided, s ing and cooki uipped with la and wear th e available at	of safe ng; abor - Well nem implemented site	Contractor	Supervision Consultant
43. Amb	ient Environme	ent	•						Approved by:		•
Parameters	Date/Locatio	n Meas		onitoring uipment	Result	Standard	% excee	d Require actions		Implementin g agency	Supervising agency
44. Envi	ronmental Inci	dents During	J Reporting Pe	riod (if any)						Approved by:	
	ental Incidents spills complair	nt) Da	ate/Location	Repoi	rt by	Description n	/Locatio	Executed actions	Follow-up Required actions	Implementin g agency	Supervising agency

45. Summary of Action required and o	observed (if any)		
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicates actions are required) Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Ho Van Nghiem		Date:
Signature:			Date:30 May 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: New building 110	kV Mo Lao ar	id 110kV line			Implementing agency:	HANOI DPM	В	
Component: Package No. AD No. ADB-HNPC-ML-W01	B-HNPC-ML-	W02			Supervising agency:	service JSC.		tion consultant
Location: Site Office and Wor	k-camp, Cons	struction sites of	substation		Contractor:	Power constr	ruction JSC No.1	
Date: 30/06/2016					-			
Report Period:					Phase:	Construction	(01/06/2016-30/	/06/2016)
46. Contractor Contractor Environmental Aw	areness			Yes/No	Required	actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	Complying the commitments stated in Bidding document and Contractor's EMP as well			IP and as ated in contract
Contractor has a copy of EMP?				Yes	Keep copies of EMP, of consequent			applied by
47. Compliance of inspectio	n of mitigati	on measures						
Impact/Mitigation measures						Approved by: A	DB and HANOI	DPMB
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/ Comments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, etc)Sites are located inside the subproject area so that they do not interfere with				 Sites are located inside th area so that they do not i welfare or social cohesio communities Wastewater flows into to wastewater settle chamb discharging into to surface 	nterfere with the n of surrounding ilet area. A er before	Well implemented	Contractor	Supervision Consultant

			the welfare or social cohesion of surrounding communities	is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
 Preparation of site: excavation, removal and disposal of unusable (incompetent) materials 	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site;	Yes	2	- No soil erosion	All waste materials need to collect and	Well implemented	Contractor	Supervision Consultant

Disposal of site waste			occurred	sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;			
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action pla 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol onsite; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation 	Well implemented	Contractor	Supervision Consultant

49. Fnvi	ronmental Incide	ents During	Reporting	Period (if an	v)					Approved by:	
Parameters	Date/Location			Monitoring Equipment	Result	Standard	% exceed	Required actions	Contractor's responsibility/Co mments	Implement ing agency	Supervising agency
48. Amb	ient Environmer	nt							Approved by:		
13) Communit health and saf		Yes	2	At site a camp	-W sc pr -W wa nd -W pr du -Fi ar	 Visitors were warned against site hazards to avoid possible accident Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in 		- Well implemented	Contractor	Supervision Consultant	
12) Public acc	ess to site	Yes	2	-At site	-Si I Vi	work areas. te could co permission of sitors were w	arned against	cessed with	- Well implemented	Contractor	Supervision Consultant
11) Chance di archaeologica sites	scovery of I and cultural	Yes	2	At site local commu	ine th To	∃ who will rep e Department	eries will be n ort to the EO. of Culture-Sp with the char	EO informs oort and	- Well implemented	Contractor	Supervision Consultant
					- to pi - fa	be introduce rocedures. Provid cilities togeth first aid.	e execution, v d and explain ed medical a er with a per	ed site safety and first aid son qualified			

Environmental Incidents (Accidents, spills complaint)	Date/	Location	Report by	Description/Locatio n	Executed actions	Follow-up Required actions	Implementing agency	Supervising agency
50. Summary of Action requir	red and o	bserved (if a	ny)					
Required actions			neframe in a week)	Responsible P	arty	(to be completed if action	Monitoring inspection/monitons are required)	
						Actions implemente	d:	
Provide suitable latrines as required	by ADB	Immediately	implemented	Contractor		Supervision Consul	tant	
Provide dangerous warning signs at of fuel	storage	Immediately	implemented	Contractor		Supervision Consul	tant	
						Follow-up action red	quired:	
						Prepared by:		
Monitored by:		Ho Van Ngh	liem			Date:		
Signature:						Date:30 June 2016		
Notes:								
Attachment: (pictures of construction	site)							

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: Add new transfor	mer T3, SS 1 ⁻	10 kV Thanh Xua	n -		Implementing agency:	HANOI DPM	В	
Component: Package No. AD	B-HNPC-TX-	W01			Supervising agency:	Vietnam ele service JSC.	ctrical construc	tion consultant
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contractor:	Power constr	ruction JSC No.1	
Date: 30/01/2016					-			
Report Period:					Phase:	Construction	(01/01/2016-30/	(01/2016)
51. Contractor					1		1	
Contractor Environmental Aw	areness			Yes/No	Require	ed actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	Complying the commitments stated in Bidding document and Contractor's EMP as well			IP and as ated in contract
Contractor has a copy of EMP?				Yes	Keep copie environment permits in site	documents,	of conseq measures	s responsibility uences and applied by to the breach of
52. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: AD	B and HANOI D	PMB
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed Location	^{I/} Required actions		Contractor's responsibility/C omments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).				e subproject area so t a interfere with the w o cohesion of	hat they do not elfare or social surrounding	Well implemented	Contractor	Supervision Consultant

			social cohesion of surrounding communities	wastewater settle chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
 Preparation of site: excavation, removal and disposal of unusable (incompetent) materials 	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii)	Well implemented	Contractor	Supervision Consultant

				those that need to go to an approved landfill site for disposal;			
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on- site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. 	- Well implemented	Contractor	Supervision Consultant

Parameters	Date/Location	n Meas	ured by	Monitoring Equipment	Result	Standard	% exceed	Required actions	Contractor's responsibility/Co mments	Implement ing agency	Supervising agency
53. Amb	ient Environme	nt							Approved by:		
13) Communit health and sat		Yes	2	At site a	and camp	 hazards to avoid possible accident Workers have been educated on the social problems. and measures of preventing HIV/AIDS; Workers in camps are provided, safe water and hygienic bathing and cooking; Workers have been equipped with labor protecting equipment and wear them during working time. First aid, medicines are available at site and camps for workers; Dust bins to collect wastes are provided in worker camps; 		- Well implemented	Contractor	Supervision Consultant	
12) Public acc	ess to site	Yes	2	-At site		around work -Site could permission Visitors we	only be acc of contractor. re warned a	essed with against site	- Well implemented	Contractor	Supervision Consultant
11) Chance di archaeologica sites	scovery of I and cultural	Yes	2	At site comm	and local une	Chance dis to the SE w EO informs Culture-Spo	coveries will I ho will report the Departme ort and Tourisi ince of discov	to the EO. ent of m to deal	- Well implemented	Contractor	Supervision Consultant
						for each a - Before e to be in site safet - Provided facilities	work safety activity xecution, wo troduced and y procedures. medical an together with in first aid.	rkers need I explained d first aid			

54. Environmental Incidents	s During Re	porting Peri	od (if any)			Approved by:			
Environmental Incidents (Accidents, spills complaint)	Date/L	/Location Report by		Description/Locatio n	Executed actions	Follow-up Required actions	Implementing agency	Supervising agency	
55. Summary of Action requ	uired and ob	bserved (if a	ny)	1		1	1 1		
Required actions		Timeframe (e.g in a week)		Responsible P	arty	(to be completed if action	Monitoring inspection/monit ons are required)		
						Actions implemented:			
Provide suitable latrines as required by ADB		Immediately implemented		Contractor		Supervision Consultant			
Provide dangerous warning signs a of fuel	at storage	Immediately implemented		Contractor		Supervision Consul	tant		
						Follow-up action rec	quired:		
						Prepared by:			
Monitored by:		Ho Van Ngh	iem			Date:			
Signature:						Date: 30 January 20	016		
Notes:									
Attachment: (pictures of construction	on site)								

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: Add new transform	mer T3, SS 11	10 kV Thanh Xua	n -		Implementing agency:	HANOI DPM	В	
Component: Package No. AD	B-HNPC-TX-	W01			Supervising agency:	service JSC.		ction consultant
Location: Site Office and Wor	k-camp, Cons	struction sites of	substation		Contractor:	Power const	ruction JSC No.1	l
Date: 28/02/2016					_			
Report Period:					Phase:	Construction	(01/02/2016-28	/02/2016)
56. Contractor					1		1	
Contractor Environmental Aw	areness			Yes/No	Requir	ed actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	Complying the commitments stated in Bidding document and Contractor's EMP as well		IP and as ated in contract PMB	
Contractor has a copy of EMF	? ?			Yes	Keep copies of EMP, of consequent			applied by
57. Compliance of inspection	on of mitigation	on measures						
Impact/Mitigation measures						Approved by: AD	B and HANOI D	PMB
(From EMP list all mitigation measures of environmental impacts which need to be completed) Mitigation taken Yes/No (1 to 5)				^{d/} Required actions	Required actions		Implementing agency	Supervising agency
1) Establishment of contractor's facilities camps, offices, quarries, concrete batching areas etc). Yes 1 So that they of not interfere welfare social cohesic			e subproject area so t a interfere with the w o cohesion of h communities or - Wastewater flows in	hat they do not elfare or social surrounding to toilet area. A	Well implemented	Contractor	Supervision Consultant	

			of surrounding communities	discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only. Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an	Well implemented	Contractor	Supervision Consultant

				approved landfill site for disposal;			
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refuelling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and 	- Well implemented	Contractor	Supervision Consultant

	Date/Location		ured by	Vonitoring	Result	Standard	% exceed	Required actions	Contractor's responsibility/Co	Implement ing agency	Supervising agency
58. Am	bient Environme	nt			1				Approved by:		
health and sa		Yes	2	At site a	hazards to avoid possible accid -Workers have been educated or social problems. and measure preventing HIV/AIDS; -Workers in camps are provisafe water and hygienic bathing cooking; t site and camp -Workers have been equipped labor protecting equipment wear them during working time. -First aid, medicines are availal site and camps for workers; Dust bins to collect wastes are provided in worker camps;		ated on the easures of provided, pathing and ipped with ment and time. available at rs; s are	- Well implemented	Contractor	Supervision Consultant	
12) Public ac	cess to site	Yes	2	-At site		around worl -Site could permission Visitors we	only be acce of contractor. re warned a	essed with gainst site	- Well implemented	Contractor	Supervision Consultant
11) Chance d archaeologica sites	liscovery of al and cultural	Yes	2	At site commu	and local Ine	regulation f - Be need to be explained s Provided ma facilities tog qualified in Chance dis to the SE w EO inform Culture-Spo with the cha	epared work s or each activit fore execution introduced and ite safety proceedical and first gether with a p first aid. scoveries will tho will report s the Depart and Touris nce of discover	y a, workers d eedures. t aid erson be notified to the EO. artment of sm to deal eries.	- Well implemented	Contractor	Supervision Consultant

59. Environmental Incidents	During R	eporting Peri	od (if any)			Approved by:			
Environmental Incidents (Accidents, spills complaint)	Date/	te/Location Report by		Description/Locatio n	Executed actions	Follow-up Implement Required actions agency		Supervising agency	
60. Summary of Action requir	ed and o	bserved (if a	201						
oo. Cummary of Action requi			עי			1	Monitoring		
Required actions			neframe in a week)	Responsible Party		Monitoring (to be completed if inspection/monitoring indicates actions are required)			
						Actions implemente	d:		
Provide suitable latrines as required by ADB		Immediately implemented		Contractor		Supervision Consul	tant		
Provide dangerous warning signs at of fuel	storage	Immediately implemented		Contractor		Supervision Consultant			
						Follow-up action red	quired:		
						Prepared by:			
Monitored by:	by: Ho Van Nghiem		iem			Date:			
Signature:					Date: 28 Feb 2016				
Notes:									
Attachment: (pictures of construction	n site)								

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: Add new transform	mer T3, SS 1	10 kV Thanh Xua	an -		Implem agency	•	OPMB	
Component: Package No. AD	B-HNPC-TX-	W01			Superv	SupervisingVietnam electrical construction cor service JSC.		
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contrac	ctor: Power c	onstruction JSC No	.1
Date: 28/03/2016					_			
Report Period:					Phase:	Constru	ction (01/03/2016-2	8/03/2016)
61. Contractor					1			
Contractor Environmental Aw	areness			Yes/No	R	equired actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	commit Bidding			e requested to d as requirement act signed with
Contractor has a copy of EM	γ			Yes	environ	copies of EMP, ment documents, in site offices.	Contractor has responsibility consequences and measu applied by Employer due to breach of the contract.	
62. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	nd HANOI DPMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	mitigationmeasuresofMitigationMitigationImpactenvironmentalimpactstakeneffectivenessObserved/whichneedtobeYes/No(1 to 5)Location					Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, etc).YesSites are located inside the subproject area so that they do not interfere with the welfare or				-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities - Wastewater flows into toilet area. A wastewater settle		Well implemented	Contractor	Supervision Consultant

			social cohesion of surrounding communities	chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant

7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working 	- Well implemented	Contractor	Supervision Consultant

	Yes		At site	 environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 			
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture- Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	At site	-Erect warning signs and barriers around work areas. -Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident	- Well implemented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	2	At site and camp	-Workers have been educated on the social problems. and measures of preventing	- Well implemented	Contractor	Supervision Consultant

63 Amb	ient Environment				-	HIV/AIDS; Workers in provided, sa hygienic bathi Workers have with labc equipment a during working First aid, available at si workers; Dust bins to c provided in wo	afe wate ing and co be been eq or pro- nd wear g time. medicines te and car collect was	r and oking; juipped otecting them s are mps for tes are	Approved b	1.		
00. 7 (11)									Contracto			a
Parameters	Date/Location	Measured by		itoring ipment	Result	Standard	% excee	ed Requi action	responsibili	ty/Co	Implement ing agency	Supervising agency
64. Envi	ronmental Incidents E	Ouring Reporting P	eriod (if any)	1	:		i	1	Appr	oved by:	
	nental Incidents spills complaint)	Date/Locatio	n	Re	port by	Description n	/Locatio	Executed actions	Follow-up Required actions	•	olementing agency	Supervising agency
65. Sum	mary of Action require	ed and observed (i	if any)			1				1		
	Required actions			neframe in a weel	k)	Resp	oonsible Pa	arty	(to be complete Actions implement	ed if in: actions	lonitoring spection/monit s are required)	

Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Ho Van Nghiem		Date:
Signature:			Date: 28 March 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: Add new transform	mer T3, SS 1	10 kV Thanh Xua		Implem agency		DPMB		
Component: Package No. AD	B-HNPC-TX-	W01			Superv agency	ising Vietnam : service		
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contrac	ctor: Power C	Construction JSC No	b.1
Date: 28/04/2016					_			
Report Period:				Phase:	Constru	ction (01/04/2016-2	8/04/2016)	
66. Contractor				1				
Contractor Environmental Aw	areness		Yes/No	R	equired actions		responsibility/ ments	
Contractor is aware of mitigat	ion requireme	ents?		Yes	commit Bidding	ComplyingtheContractorsarerequiredcommitmentsstatedinprepareEMP and asreBiddingdocumentandstatedincontractsigContractor'sEMP as wellDPMBDPMBContractsig		
Contractor has a copy of EM	ې و			Yes	environ	copies of EMP, ment documents, in site offices.	Contractor has responsibility of consequences and measure applied by Employer due to the breach of the contract.	
67. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	IND HANOI DPMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	contractor's facilities the subproject area so that concrete batching areas Yes 1 they do not					Well implemented	Contractor	Supervision Consultant

			social cohesion of surrounding communities	chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant

7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be 	- Well implemented	Contractor	Supervision Consultant

	Yes		- At site	 with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 			
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture- Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	-At site	 -Erect warning signs and barriers around work areas. -Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant

13) Communi health and sa		Yes	2		At site a camp	nd	 Workers have on the socia measures of HIV/AIDS; Workers in ca provided, sa hygienic bat cooking; Workers have with labor pr equipment a during worki First aid, med available at for workers; Dust bins to c provided in worki 	I problems f preventir imps are fe water a hing and e been equi- totecting and wear t ng time. icines are site and c ollect was	s. and ng ind uipped hem amps ites are	- Well implen		С	ontractor	Supervision Consultant
68. Amb	oient Environme	ent	1			1				1	Approved by	y:		
Parameters	Date/Locatio	n Meas	sured by		itoring pment	Result	Standard	% excee		equired ctions	Contracto responsibili mmente	ty/Co	Implement ing agency	Supervising agency
69. Envi	ronmental Inci	dents During	a Reporting	a Perio	od (if an	v)						Appr	oved by:	
Environm	nental Incidents spills complair		ate/Location			port by	Description n	/Locatio	Execu actio		Follow-up Required actions	Im	plementing agency	Supervising agency

70. Summary of Action required and o	bserved (if any)					
Required actions	Timeframe (e.g in a week)	Responsible Party	Monitoring (to be completed if inspection/monitoring indicate actions are required) Actions implemented:			
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant			
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant			
			Follow-up action required: Prepared by:			
Monitored by:	Ho Van Nghiem		Date:			
Signature:			Date: 28 April 2016			
Notes:						
Attachment: (pictures of construction site)						

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

PROJECT: Add new transfor	mer T3, SS 1	10 kV Thanh Xua	an -		Implen agency	• • • • • • • • •	DPMB	
Component: Package No. AD	B-HNPC-TX-	W01			Superv agency	/: service		
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contra	ctor: Power of	construction JSC No	.1
Date: 28/05/2016								
Report Period:				Phase	Constru	ction (01/05/2016-2	8/05/2016)	
71.Contractor			:					
Contractor Environmental Aw	areness		Yes/No	F	equired actions		responsibility/ ments	
Contractor is aware of mitigat	ion requireme	ents?		Yes	Bidding	tments stated in	prepare EMP an	e requested to d as requirement act signed with
Contractor has a copy of EM	ς			Yes	enviror	copies of EMP, ment documents, s in site offices.	Contractor has responsibility consequences and measure applied by Employer due to the breach of the contract.	
72. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	and HANOI DPMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	yontractor'sfacilitiesthecamps, offices, quarries,Yes1subprojectconcretebatchingareasarea so that				the they do elfare or ounding oilet le	Well implemented	Contractor	Supervision Consultant

			the welfare or social cohesion of surrounding communities	chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA 	Well implemented	Contractor	Supervision Consultant

				between 21h00 and 06h00;			
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant

10) Workplace health and safety	Yes	2	- At site	 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 	- Well implemented	Contractor	Supervision Consultant
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	-At site	 -Erect warning signs and barriers around work areas. -Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant

health and sa	ty and worker fety Dient Environm	Yes	2		At site a camp		 Workers have b on the social pr measures of pru- HIV/AIDS; Workers in cam safe water and and cooking; Workers have b with labor prote and wear them time. First aid, medic available at site workers; Dust bins to colli- provided in wor 	oblems. an eventing ps are pro- hygienic b been equip cting equip during wo ines are and camp ect wastes	nd ovided, athing oped oment rking os for s are	- We imple	II mented Approved by	-	ontractor	Supervision Consultant
Parameters	Date/Locatio		sured by		itoring	Resu	Standard	% excee		equired	Contracto	or's	Implement	Supervising
				Equi	ipment	lt			a	ctions	mments		ing agency	agency
74. Envi	ironmental Inci	dents Durin	a Reportin	a Peri	od (if ar)) V)						Appr	oved by:	
Environm	nental Incidents spills complair		ate/Locatio			ort by	Description/Lo	ocation	Execu actio		Follow-up Required actions	Im	olementing agency	Supervising agency
75. Sum	mary of Action	required a	nd observe	ed (if a	ny)							<u> </u>		
	Required actions Timeframe (e.g in a week)					Resp	oonsible P	arty		(to be complete		lonitoring spection/monit	oring indicates	

			actions are required)
			Actions implemented:
Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Ho Van Nghiem		Date:
Signature:			Date: 28 May 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

SITE ENVIRONMENTAL COMPLIANCE INSPECTION AND MONITORING RECORD AT CONSTRUCTION SITE –CONSTRUCTION OF THANH XUAN SUBSTATION

PROJECT: Add new transfor	mer T3, SS 1	10 kV Thanh Xua	an -		Implem agency		DPMB	
Component: Package No. AD	B-HNPC-TX-	-W01			Superv agency	ising Vietnam : service	electrical constr JSC.	
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contra	ctor: Power c	onstruction JSC No	o.1
Date: 28/06/2016					_			
Report Period:				Phase	Construe	ction (01/06/2016-2	8/06/2016)	
76. Contractor				1	1		· - ·	
Contractor Environmental Aw	areness			Yes/No	R	equired actions		responsibility/ ments
Contractor is aware of mitigat	ion requirem	ents?		Yes	Complying the Contractors are required commitments stated in prepare EMP and as reading document and stated in contract signal Contractor's EMP as well DPMB			d as requirement
Contractor has a copy of EM	۶ç			Yes	enviror	copies of EMP, ment documents, in site offices.	Contractor has responsibility consequences and measur applied by Employer due to t breach of the contract.	
77. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	IND HANOI DPMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	1	-Sites are located inside the subproject area so that they do not interfere with	 Sites are located inside t subproject area so that t not interfere with the wel social cohesion of surrou communities Wastewater flows into to area. A wastewater settl 	hey do Ifare or unding bilet	Well implemented	Contractor	Supervision Consultant	

			the welfare or social cohesion of surrounding communities	chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	- Constructio n site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA 	Well implemented	Contractor	Supervision Consultant

				between 21h00 and 06h00;			
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant
7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		- Contractor has abided Vietnamese Labor Code as	- Well implemented	Contractor	Supervision Consultant

	Yes		- At site	 amended 2002 as follow:. Provided workers be with safety working environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 			
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture-Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	-At site	 Erect warning signs and barriers around work areas. Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	2	At site and camp	-Workers have been educated on the social problems. and measures of preventing	- Well implemented	Contractor	Supervision Consultant

78 Amb	vient Environment				-Wu sa an -Wu witi an tim -Fir av wc Dus	V/AIDS; orkers in cam fe water and d cooking; orkers have b th labor prote d wear them ne. 'st aid, medici ailable at site orkers; st bins to colle ovided in wor	hygienic b been equip cting equip during wo ines are and camp ect wastes	athing ped oment rking os for s are	Approved by	1		
70. Ami						I					1	
Parameters	Date/Location	Measured by		itoring ipment	Result	Standard	% excee	ed Requir action	ed s contracto responsibili mments	ty/Co	Implement ing agency	Supervising agency
79. Envi	ronmental Incidents	s During Reportin	g Peri	od (if an	y)	i			· · · · · · · · · · · · · · · · · · ·	Appr	oved by:	
	nental Incidents spills complaint)	Date/Locatio	n	Re	port by	Description n	/Locatio	Executed actions	Follow-up Required actions	•	plementing agency	Supervising agency
80. Sum	mary of Action requ	ired and observe	ed (if a	ny)		•				• •		
	Required actions			neframe in a wee	k)	Resp	oonsible Pa	arty		ed if ins	lonitoring spection/monit s are required)	
									Actions impleme	ented:		

Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Ho Van Nghiem		Date:
Signature:			Date: 28 June 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

SITE ENVIRONMENTAL COMPLIANCE INSPECTION AND MONITORING RECORD AT CONSTRUCTION SITE –CONSTRUCTION OF SON TAY SUBSTATION

PROJECT: Rehabilitation of S	Son Tay 110k	V substation-E1		Implem agency				
Component: Package No. AD	B-HNPC-ST-	W01			Supervi	ising Enginee	ring Construction	design investigate
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contractor: Joint venture Hanoi Electric Development Investment Lt			
Date: 28/05/2016						,	Construction JSC.	
Report Period:				Phase:	Constru	ction (01/05/2016-2	8/05/2016)	
81.Contractor Contractor Environmental Aw	areness			Yes/No	R	equired actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes			e requested to d as requirement	
Contractor has a copy of EM	ې ې			Yes	Keep copies of EMP, environment documents, permits in site offices.		Contractor has responsibility consequences and measur applied by Employer due to the breach of the contract.	
82. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	IND HANOI DPMB	
(From EMP list all mitigation measures of environmental impacts which need to be completed)	Mitigation taken Yes/No	Mitigation effectiveness (1 to 5)	Impact Observed/ Location	Required actions		Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1) Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	contractor's facilities (camps, offices, quarries, Yes 1 area so that concrete batching areas they do not					Well implemented	Contractor	Supervision Consultant

			social cohesion of surrounding communities	chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant

7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	- All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working 	- Well implemented	Contractor	Supervision Consultant

	Yes		- At site	 environment Not allow drugs or alcohol on-site; Control noise and dust provided all workers with safety equipment appropriate for the task they are employed. The workers are to be supplied on-site with: Potable water, sanitary toilet, washing and showering facilities. Prepared work safety regulation for each activity Before execution, workers need to be introduced and explained site safety procedures. Provided medical and first aid facilities together with a person qualified in first aid. 			
11) Chance discovery of archaeological and cultural sites	Yes	2	At site and local commune	Chance discoveries will be notified to the SE who will report to the EO. EO informs the Department of Culture- Sport and Tourism to deal with the chance of discoveries.	- Well implemented	Contractor	Supervision Consultant
12) Public access to site	Yes	2	-At site	 Erect warning signs and barriers around work areas. Site could only be accessed with permission of contractor. Visitors were warned against site hazards to avoid possible accident 	- Well implemented	Contractor	Supervision Consultant
13) Community and worker health and safety	Yes	2	At site and camp	-Workers have been educated on the social problems. and measures of preventing	- Well implemented	Contractor	Supervision Consultant

					-	HIV/AIDS; Workers in ca provided, safe hygienic bathi Workers have with labor prot equipment an during working First aid, med available at si workers; Dust bins to co provided in wo	e water an ing and co been equ tecting d wear the g time. icines are te and car	oking; iipped em nps for es are	Annersed b			
83. Amt	pient Environment				:	1		:	Approved by		1	
Parameters	Date/Location	Measured by		itoring ipment	Result	Standard	% excee	ed Requi		ty/Co	Implement ing agency	Supervising agency
84. Envi	ronmental Incidents	During Reportin	g Peri	od (if an	y)	-		1	1	Appr	oved by:	
	nental Incidents spills complaint)	Date/Locatio	n	Re	port by	Description n	/Locatio	Executed actions	Follow-up Required actions	•	olementing agency	Supervising agency
85 Sum	mary of Action requ	ured and observe	d (if a	nv)								
	Required actions		Tir	meframe in a weel	k)	Resp	oonsible P	arty	(to be complete Actions impleme	ed if in: actions	lonitoring spection/monit s are required)	

Provide suitable latrines as required by ADB	Immediately implemented	Contractor	Supervision Consultant
Provide dangerous warning signs at storage of fuel	Immediately implemented	Contractor	Supervision Consultant
			Follow-up action required:
			Prepared by:
Monitored by:	Phan Thi Kim Anh		Date:
Signature:			Date: 28 May 2016
Notes:			
Attachment: (pictures of construction site)			

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)

SITE ENVIRONMENTAL COMPLIANCE INSPECTION AND MONITORING RECORD AT CONSTRUCTION SITE –CONSTRUCTION OF SON TAY SUBSTATION

PROJECT: Rehabilitation of S	Son Tay 110k	V substation-E1	Impleme agency:		OPMB			
Component: Package No. AD	B-HNPC-ST-	W01	<u> </u>	Supervising Engineering Construction design i agency: JSC				
Location: Site Office and Wor	k-camp, Con	struction sites of	substation		Contrac	Power Service & d & Power		
Date: 28/06/2016						Industry	Construction JSC.	
Report Period:					Phase:	Construc	ction (01/06/2016-2	8/06/2016)
86. Contractor			i				1	
Contractor Environmental Aw	areness			Yes/No	Re	equired actions		responsibility/ ments
Contractor is aware of mitigat	ion requireme	ents?		Yes	Complyi commitr Bidding Contrac	nents stated in	Contractors are requested to prepare EMP and as requirement stated in contract signed with DPMB	
Contractor has a copy of EMI		Yes	environr	copies of EMP, nent documents, in site offices.	consequences applied by Emp	Contractor has responsibility of consequences and measures applied by Employer due to the preach of the contract.		
87. Compliance of inspection	on of mitigati	on measures						
Impact/Mitigation measures						Approved by: ADB a	nd HANOI DPMB	
(From EMP list all mitigation measures of environmental impactsMitigation takenMitigation effectiveness (1 to 5)Impact Observed/ Location				Required actions response		Contractor's responsibility/Com ments	Implementing agency	Supervising agency
1)Establishmentof facilities (camps, offices, quarries, etc).Yes1-Sites are located inside the subproject area so that they do not interfere with				-Sites are located inside the subproject area so that they do not interfere with the welfare or social cohesion of surrounding communities - Wastewater flows into toilet		Contractor	Supervision Consultant	

			the welfare or social cohesion of surrounding communities	area. A wastewater settle chamber before discharging into to surface water bodies is needed -Contractor's storage facilities have been surrounded by a security fence.			
2) Demarcation and clearing of RoW and ancillary facilities	Yes	2	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	The subproject site is bounded by fence. No clearance of vegetation and other facilities is needed	Well implemented	Contractor	Supervision Consultant
3) Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	Yes	2	-The excavated area was limited to the area needed for construction only.	 The excavated area was limited to the area needed for construction only Excavated material was disposed of outside and away from the work area. 	Well implemented	Contractor	Supervision Consultant
4) Dust management	Yes	2	Truck transporting construction material; construction site	The contractor has applied dust control measures: covered truck transporting construction material; made fence surrounding construction site; covered construction material piles ect.	Well implemented	Contractor	Supervision Consultant
5) Noise and vibration	Yes	2	Construction site	 The work generating big noise is implemented at daylight hours only. Noise is managed not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00; 	Well implemented	Contractor	Supervision Consultant
6) Waste water from construction site	Yes	2	Construction site	Oil and fuel from machinery was collected and disposed to a regulated site	Well implemented	Contractor	Supervision Consultant

7) Prevention of soil erosion on construction site; Disposal of site waste	Yes	2	- No soil erosion occurred	All waste materials need to collect and sorted into two categories (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal;	Well implemented	Contractor	Supervision Consultant
8) Storage and handling of: fuel and lubricants	Yes	2	- Fuel for all machine work at site. - Fuel fills in transformer.	 All fuel storage areas are securely fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked. Fuel is stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment. All waste oil and oil filters was collected and if possible recycled, otherwise to be disposed of to landfills The contractor has trained refueling personnel in these procedures. The contractor has developed an accidental spill handling action plan 	- Well implemented	Contractor	Supervision Consultant
9) Community Safety from increased vehicle movements	Yes	2	All vehicles and loads at site.	 All vehicles were properly maintained and operated in accordance with transportation laws. All loads were properly secured and fugitive loads to be covered. 	- Well implemented	Contractor	Supervision Consultant
10) Workplace health and safety		2		 Contractor has abided Vietnamese Labor Code as amended 2002 as follow:. Provided workers be with safety working environment 	- Well implemented	Contractor	Supervision Consultant

	Yes		- At site	- Not allow drugs or			
				alcohol on-site;			
				- Control noise and			
				dust provided all workers with			
				safety equipment appropriate			
				for the task they are			
				employed.			
				- The workers are to			
				be supplied on-site with:			
				Potable water, sanitary toilet,			
				washing and showering facilities.			
				- Prepared work safety			
				regulation for each activity			
				- Before execution.			
				workers need to be			
				introduced and explained site			
				safety procedures.			
				Provided medical and first aid			
				facilities together with a			
				person qualified in first aid.			
			At site and local	Chance discoveries will be			
11) Chance discovery of	Yes		commune	notified to the SE who will			a
archaeological and cultural		2		report to the EO. EO informs	- Well	Contractor	Supervision
sites				the Department of Culture- Sport and Tourism to deal with	implemented		Consultant
				the chance of discoveries.			
				-Erect warning signs and			
				barriers around work areas.			
			A . •.	-Site could only be accessed			.
12) Public access to site	Yes	2	-At site	with permission of contractor.	- Well	Contractor	Supervision
,				Visitors were warned against	implemented		Consultant
				site hazards to avoid possible			
				accident			
				-Workers have been educated			
13) Community and worker		_	At site and	on the social problems. and	- Well	_	Supervision
health and safety	Yes	2	camp	measures of preventing	implemented	Contractor	Consultant
· · · · · · · · · · · · · · · · · · ·				HIV/AIDS;	1		
				-Workers in camps are			

88. Amb	bient Environment				-	provided, sa hygienic bathi Workers have with labc equipment a during working First aid, available at si workers; Dust bins to co provided in wo	ng and co been eq or pro nd wear g time. medicines te and car ollect was	uipped tecting them s are nps for tes are		Approved by	<i>r</i> :		
Parameters	Date/Location	Measured b		itoring pment	Result	Standard	% excee		uired ions	Contracto responsibilit mments	y/Co	Implement ing agency	Supervising agency
89. Envi	ironmental Incidents	During Repo	orting Perio	od (if an	y)	1		i			Appro	oved by:	
-	nental Incidents spills complaint)	Date/Loc	ation	Re	port by	Description n	/Locatio	Execute actions	a	Follow-up Required actions		plementing agency	Supervising agency
90. Sum	mary of Action requ	ired and obse	erved (if a	ny)		1			1				
	Required actions			neframe n a weel	<)	Responsible Party				Monitoring (to be completed if inspection/monitoring indicates actions are required)			
									Act	tions impleme	ented:		
Provide suitable latrines as required by ADB Immediately implemented			ented	Contractor			Supervision Consultant						
Provide dang of fuel	ovide dangerous warning signs at storage Immediately implemented		ented	Contractor			Su	pervision Cor	sultan	t			
									Fol	Follow-up action required:			
									Pre	epared by:			

Monitored by:	Phan Thi Kim Anh	Date:
Signature:		Date: 28 June 2016
Notes:		
Attachment: (pictures of construction site)		

1. Very good (meet all requirements)

2. Good (take main measures))

3. Medium (take several measures)

4. Poor (take few measures)