

# Environmental Monitoring Report

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Semestral Report  
June to December 2014

## VIE: Power Transmission Investment Program, Tranche 2 220kV Cau Bong-Hoc Mon-Branches to Binh Tan Transmission Line

Prepared by Southern Power Projects Management Board for the Asian Development Bank.

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**NATIONAL POWER TRANSMISSION CORPORATION  
SOUTHERN POWER PROJECT MANAGEMENT BOARD**

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**POWER TRANSMISSION INVESTMENT PROGRAM, TRANCHE 2 -  
Loan: 2959-VIE**

**220KV CAU BONG - HOC MON - BINH TAN TRANSMISSION LINE  
SUBPROJECT**

**SEMI – ANNUAL ENVIRONMENTAL MONITORING REPORT  
FOR PERIOD OF JUNE TO DECEMBER, 2014**



01.2015

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## ABBREVIATIONS

ADB	Asian Development Bank
AH	Affected households
B&C documents	Bidding and Contract documents
CEMP	Contractor Environmental Management Plan
CLO	Community Liaise Officer
CPC	Commune People Committee
EMoP	Environmental Monitoring Plan
EMP	Environmental Management Plan
EO	Environmental Officer
ES	Environmental Safeguard
ESHO	Environmental Safety Health Officer
HCMC	Ho Chi Minh City
IEE	Initial Environmental Examination
IES	International Environment Specialist
IOL	Inventory of Loss
NPT	National Power Transmission Corporation
NSSE	National Safeguard Specialist for Environment
PCC1	Power Construction Company No 1
RoW	Right-of-Way
RP	Resettlement Plan
SiE	Site Engineers
SPPMB	Southern Power Project Management Board
SE	Supervision Engineer
USD	United State Dollars
VNECO	Vietnam Power Construction Corporation

## EXECUTIVE SUMMARY

The subproject of 220KV Cau Bong – Hoc Mon – Binh Tan has a total line of 15.59km long with 59 supporting towers and its RoW is 22m wide, 11m from either side of the line centre. The line that starts from Cau Bong 500KV substation located in Tan Phu Trung commune passes Tan Thanh Dong, Binh My communes of Cu Chi district, Dong Thanh, Thoi Tam Thon of Hoc Mon district and Tan Thoi Hiep commune, and then ends at Hoc Mon 220KV substation in Tan Chanh Hiep commune of district 12, HCMC.

The internal monitoring objectives on environmental safeguards are:

- Monitor construction of the subprojects in compliance with policies of ADB and the Government on environmental safeguards.
- Monitor the construction contractors' compliance with the mitigation measures against the approved EMP and CEMP.
- Recommend measures to improve the effectiveness of mitigating the negative impacts on the environment during the construction phase.
- Identify the unanticipated environmental impacts during the design stage and recommend solutions for monitoring and mitigating the impacts.

**Implementation progress:** The subproject was executed on 10 June 2014 and expected to be finished in September 2015. As of 31 December 2014, the progress of work has achieved about 51% of all works.

The environmental safeguard monitoring results in the period of June to December of 2014 have shown that the contractor's environmental compliance is good. The outstanding issues on implementing the CEMP, the resolved environmental issues and the issues are planning to be addressed in the next monitoring period are summarized as follows:

### **Contractor's compliance with the implementation of CEMP**

- The contractors have agreed with the AHs on the compensation and land clearance before execution;
- The contractors have seriously complied with the construction measures that are approved by SPPMB;
- In terms of implementation of the mitigation measures to address the negative impacts on environment at site:
  - The contractors performed well in reducing dust, noise, vibration, landslides; not blocking water flows and preventing the trees and works adjacent to the construction sites from any damages;
  - The contractors mostly covered/restored the ground on time, repaired and compensated the AHs for any damages and losses caused by the construction.
  - The contractors have improved in collecting and classifying the construction wastes such as cement bags, iron materials; plastic cans to be reused or sold for recycling.

In terms of health and safety of the workers and local communities, the contractors were in compliance with the CEMP, typically:

- All migrant workers have registered as the temporary residents to local authorities, respected to local cultures and have a good relation with the community; protected forests and wild animals.
- All workers have been educated to improve their awareness on social diseases especially HIV/AIDS;

- All construction activities were not performed at night time especially at positions near the residential areas; all site drivers complied with the Law on transportation;
- The contractors have issued the labor safety regulations and provided the workers with the labor protecting equipment and reminded them to use during the time of working at site.
- The contractors have built the temporary camps for the workers at sites for guarding the construction materials at nighttime and taking a short rest at lunchtime with the adequate provision of potable water and first aid medicines. The camps are located at the ventilated and safe places, which was equipped with garbage bins and hygienic toilets.

### **Environmental issues that have been resolved**

In compliance with the required Letter No. 7478 issued by SPPMB on October 10, 2014, all involved contractors resolved the environmental issues in the 3<sup>rd</sup> quarter 2014 monitoring report during the site visits conducted on 10 to 25 October 2014.

- Contractor PCC1 repaired the community road to its original condition, dredged the sediments and compensated the affected villager for losses in rice harvest (tower 4, Tan Phu Trung commune, Cu Chi district);
- Both contractors, PCC1 and VNECO, collected and treated construction wastes and garbage following the regulation, provided first aids kits at workers' camps and equipped workers with the suitable labor protective equipment (towers of No 4, 9, 21, 25);
- Contractor VNECO rented a temporary site to store materials during the time of erecting towers, which avoided adverse effects to public transportation (Tower No 20, Binh My commune, Cu chi district).

### **Environmental issues that need to be resolved in the next monitoring period**

- The contractor VNECO must wrap the cement bags tidily for reusing and recycling as regulated (at tower No. 13, Tan Thanh Dong commune, Cu Chi district);
- The contractor VNECO must return the ground at tower No. 11 and No.13 to allow the AHs to cultivate the temporarily affected land in keeping up with the planting season schedule;
- The contractor VNECO should rebuild the damaged wall and corridor for Tho Nam Sang Environmental Company to its original condition as committed between the two sides (tower No. 17, Tan Thanh Dong commune, Cu Chi district);
- The contractor must ask local traffic agency for a permission to erect warning signs at both sides of Vo Van Bich street to meet the traffic regulations;
- The contractor must install fences, signal lights and boards around the tower No. 39 to warn people about a deep hole being excavated (Tower No. 39, Tam Thon 3 village, Thoi Tam Thon commune, Hoc Mon district)

### **Action Plan for resolution of environmental issues**

Based on the recommendations made by NSSE, SPPMB issued a Letter No 9760/AMN-DB dated 31 December 2014 requesting the contractors to act on the identified environmental issues immediately on the period of 02 to 30 January 2015. The follow up actions, progress and results of resolving the issues will be reflected in the first quarter of 2015 environmental report.

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## 1. INTRODUCTION

### 1.1 Project background

To carry out its plan to expand power generation, transmission and distribution capacity to meet the rapidly growing electricity demand throughout the country, the Government of Vietnam has requested the financial resource from a Multi – Tranche Financing Facility (MFF) funded by the Asian Development Bank (ADB) to invest the power development program. The program will include the physical investments in transmission and distributions of power with an expectation to (i) facilitate power transfers, (ii) remove transmission bottlenecks and (iii) reduce transmission losses and voltage fluctuation.

To deploy its master plan on the national power development, the 220KV Cau Bong – Hoc Mon – Binh Tan transmission line subproject is invested under the Tranche II with a total budget of around 9.3 millions USD. NPT is the executive agency and SPPMB is the implementing agency for the subproject.

### 1.2 Project scale

The subproject of 220KV Cau Bong – Hoc Mon – Binh Tan transmission line has a total length of 15.59km long with 59 supporting towers and its RoW is 22m wide, 11m from either side of the line centre. The line that starts from Cau Bong 500KV substation located in Tan Phu Trung commune passes Tan Thanh Dong, Binh My communes of Cu Chi district, Dong Thanh, Thoi Tam Thon of Hoc Mon district and Tan Thoi Hiep commune then ends at Hoc Mon 220KV substation in Tan Chanh Hiep commune of district 12, HCMC. A general layout is presented in Figure 1, Table 1.

**Table 1: The positions of 220Kv Cau Bong – Hoc Mon - Binh Tan transmission line subproject**

No	Starting ending points	Province/ city	District	Commune/ Ward	Lengths (m)
1	DD2-G2.1A	HCMC	Cu Chi	Tan PhuTrung	464
2	G2.1A-G2.1			Tan Thanh Dong	1,456
3	G2.1-G2.2				2,549
4	G2.2-G2.3				1,330
5	G2.3-G2.4			Binh My	1,077
6	G2.4-G2.5				271
I	Total of new construction line				7,147
7	G2.5-G2.6	HCMC	Hoc Mon	Dong Thanh Thoi Tam Thon	515
8	G2.6-G2.7				826
9	G2.7-G2.8				559
10	G2.8-G2.9				781
11	G2.9-G2.10				870
12	G2.10-G2.11	HCMC	12	Tan Chanh Hiep	791
13	G2.11-G2.12				707
14	G2.12-G2.13				567
15	G2.13-G2.14				748
16	G2.14-G2.15				819
17	G2.15-G2.16			Tan Thoi Hiep	150
18	G2.16-ĐC2				308



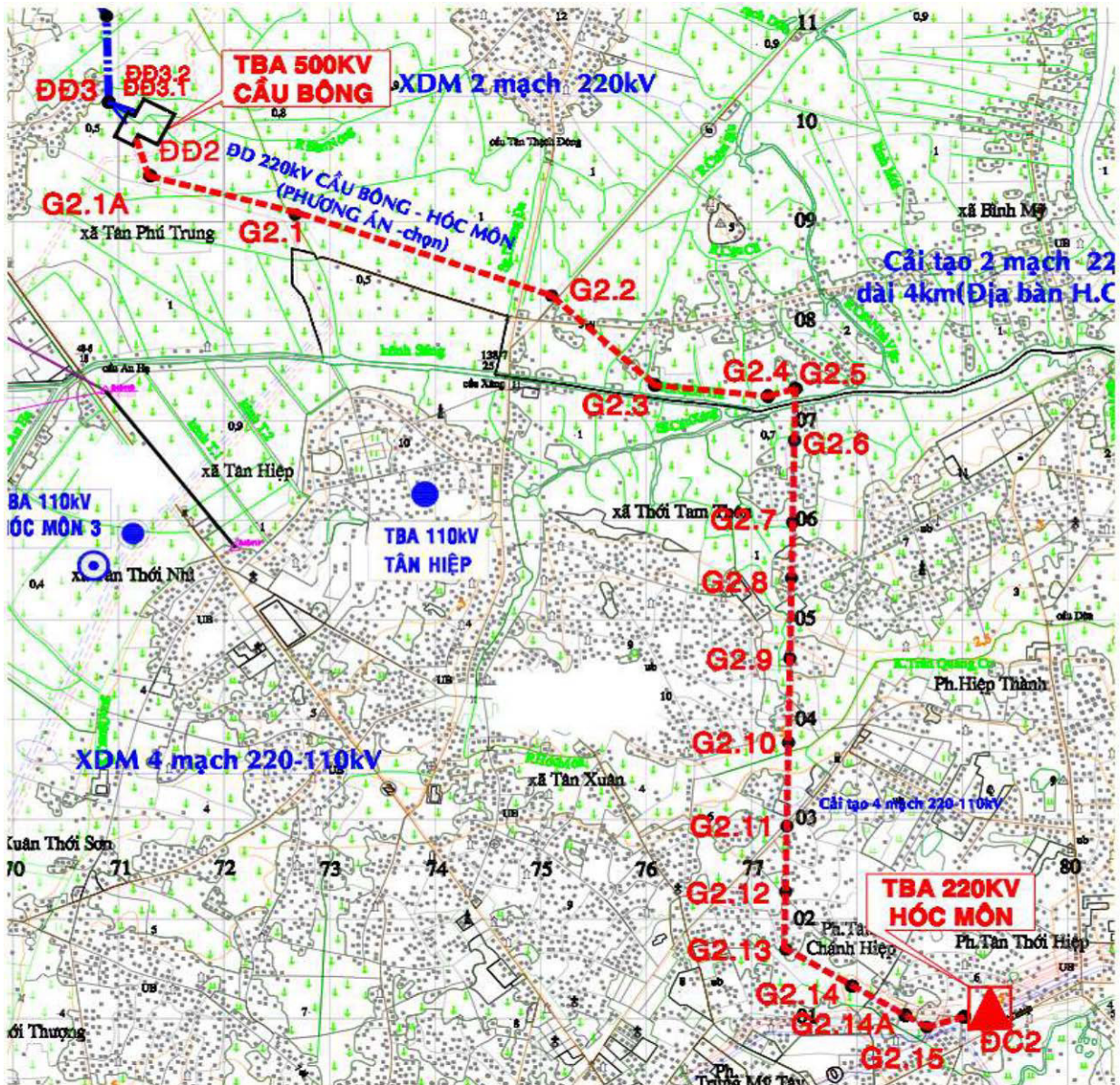
II	Upgrading line				7,641
	Total of new construction and upgrading line				14,788
1	Connect to Cau Bong 220kV	HCMC	Cu Chi	Tan Phu Trung	314
2	Connect to Cau Bong 110kV				619
3	Hoc Mon 110/220 kV		District 12	Tan Thoi Hiep	219
III	Total of connection substations to				<b>1,152</b>
IV. Total I, II, III		<b>1</b>	<b>3</b>	<b>6</b>	<b>15,940</b>

(Source: Feasibility report PECC-2, 2012)

The land affected by the project includes the land required for the rights of way (RoW) and for construction of the tower foundations. According to the IEE of Cau Bong – Hoc Mon – Binh Tan transmission line approved in December 2012, the subproject scale that is related to potential environmental impacts in the project areas includes (i) the quantity of excavated earth and rock is 83,880 m<sup>3</sup> and the average of each tower is about 1,421m<sup>3</sup>; (ii) the requirement of concrete is 21,272 m<sup>3</sup> and the average of each tower requires 360m<sup>3</sup>; (iii) The number of houses within the RoW is 433, which satisfies the safety clearance requirements and is not required to be relocated. The 776 houses with metal roof located from 11 – 36m from the line centre will be earthed; (iv) Although most the transmission line route is located within the outskirts of HCMC to minimize negative impacts on residential areas and facilities on the affected land, it crosses the electricity line of 500KV three times at sections of DD2 – G2-1A, Cau Bong 220KV connection and Cau Bong 110KV connection; the low voltage transmission line 34 times at sections of G2-2 to G2-3 (4 times) from G2-5 to DC2 (30 times); the roads 29 times at sections of G2-1 to G2-2 (1 time), G2-2 – G2-3 (2 times) and from G2-7 to G2-15 (26 times); the canals 6 times at sections of G2-1 to G2-2 (02 times), G2-2 to G2-3 (3 times) and G2-7 to G2-8 (1 time) and the river once at G2-5 to G2-6 section.

In terms of biological environment, the majority of affected land under the RoW is agricultural land, of which the paddy field land accounts for 40%, growing vegetation with 20%, besides, mixed cropping mainly of trees of 5% and no original habitats, significant wildlife, conservation areas and significant invasive species have been found within the project area.

For physical cultural resources, there are several temples and other public infrastructures within the vicinity of the transmission line corridor but the separation distances are acceptable and none of these structures will be affected by the project activities.



**Figure 1: Layout of 220KV Cau Bong - Hoc Mon - Binh Tan**

### 1.3 Objectives of internal environmental monitoring

The objectives of internal environmental monitoring are as follows:

- Monitor the environmental compliance with both policies of ADB and the Government of subproject's construction activities
- Monitor the construction contractors' compliance with the mitigation measures in accordance with the approved EMP and CEMP.
- Recommend measures to improve the effectiveness of mitigating the negative environmental impacts during the subproject's construction period.
- Identify the unanticipated environmental impacts during the design stage and recommend measures for monitoring and mitigating the impacts.

## 2. INCORPORATION OF ENVIRONMENTAL REQUIREMENTS INTO PROJECT CONTRACTUAL ARRANGEMENTS

### 2.1. Environmental law, regulation and standards

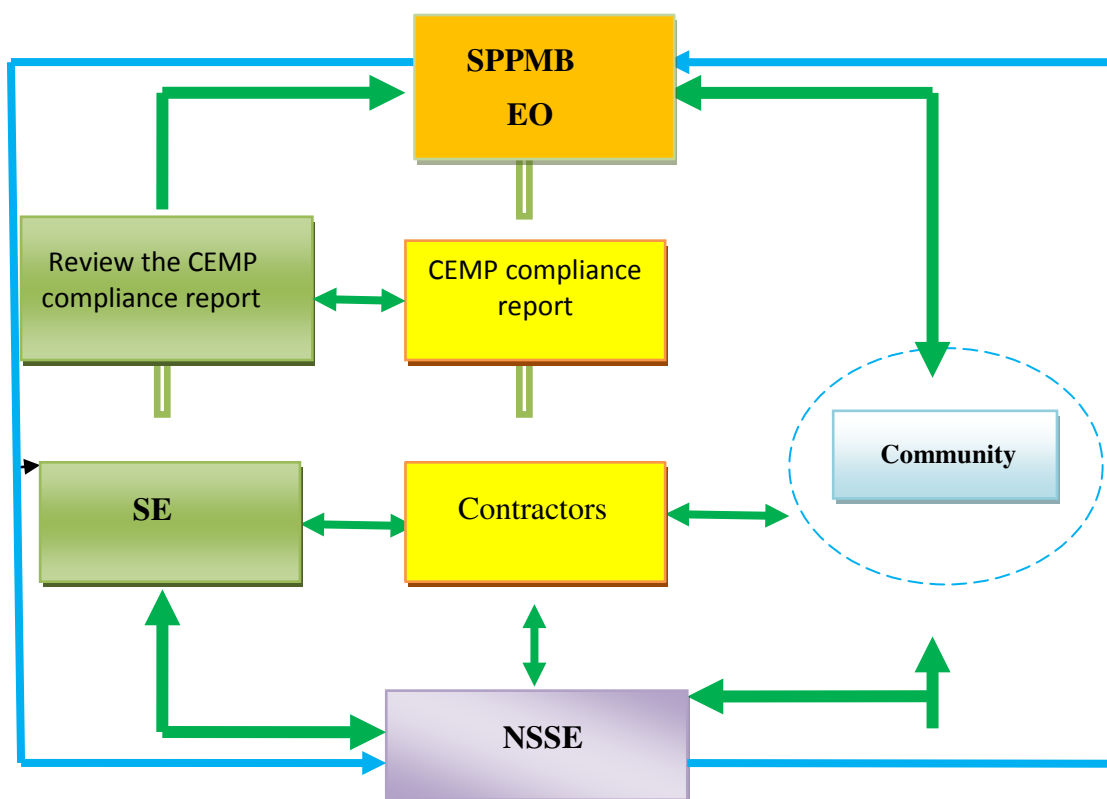
The following are the standards, regulations and laws which guided the environmental monitoring of the project:

- ADB's environmental safeguard put in effect on January 01, 2010;
- Law on Environment, 2005;
- Circular No. 22/2010/TT-BXD regulating labor safety in executing constructions issued by Ministry of Construction on December 03, 2010;
- Decree No.59/2007/NĐ-CP on solid waste management dated April 09, 2007;
- Decree No.14/2014/NĐ-CP dated February 26, 2014 rules on the implementation of Law on Electricity and Power Safety;
- QCVN 26/2010/BTMT national technical standard on noise.

### 2.2 Environment Institutional Responsibilities

#### 2.2.1 Layout of Internal monitoring arrangement

Based on the institutional arrangement for implementing the EMP and EMoP concurred by ADB in December 2012 (IEE, 12/2012), a layout on the internal environmental monitoring arrangement is presented in Figure 2.



**Figure 2:** Layout on internal monitoring arrangement for environmental safeguard

## **2.2.2 Duties of the related stakeholders in the institution**

### **SPPMB**

SPMB works as an implementing agency, appointing its Supervision Engineers (SEs) from the Technical Department, to have overall responsibility for supervising construction contractors in both civil works and implementing the EMP; assigning its Environmental Officer (EO) from its Resettlement Division to be responsible for implementing and monitoring the EMP during the project phases. With support from IES, EO of NPT and NSSE, the SPPMB SEs and EO will be in charge of the following duties:

- **SPPMB ENVIRONMENTAL OFFICER (EO) is responsible for:**
  - Supporting SPPMB in the finalization of the CEMP
  - Orientation and introduction of contractors to the CEMP and preparation of monthly reports;
  - Supporting and gathering monthly reports prepared by contractors on compliance with the implementation of CEMP;
  - Collaborating with the NSSE to conduct monthly regular site visits and conducting quarterly workshops on the compliance with the environmental safeguard policies of the subproject and the improvement of awareness of the project staff and contractors on occupational and community health and safety.
  - Preparing monthly, quarterly and semi-annual reports on the implementation of the EMP and EMoP to be submitted to ADB and NPT.
- **SPPMB SUPERVISION ENGINEERS (SEs) are in charge of:**
  - Supervising the construction contractors both in technical works and the implementation of EMP;
  - Reviewing monthly compliance report prepared by contractors before submitting it to SPPMB.

### **CONSTRUCTION CONTRACTORS**

- Mobilizing its human resources including (i) Site Engineer (SiE); (ii) Environmental, Health and Safety Officer (ESHO) and (iii) Community Liaison Officer (CLO) and necessary materials and equipment to implement the mitigation measures effectively at sites;
- Developing its CEMP before starting civil works to be submitted and approved by SPPMB;
- Meeting with SPMB SE & EO at sites to ensure that the contractor's assigned staff have understood and committed to implementing the CEMP;
- Maintaining a Control Record available as requested for any inspection made by SPPMB SE and EO;
- Promulgating and educating its workers on safety and health;
- Preparing monthly compliance report submitted to SPPMB.

### **NATIONAL SAFEGUARD SPECIALIST FOR ENVIRONMENT (NSSE)**

- Supporting SPPMB in compliance with the environmental safeguard policies and in coordinating and implementing the EMP and EMoP for the project.
- Building capacity on the implementation of the EMP and EMoP while improving the awareness on occupational and community health and safety for the workers and contractors;
- Supporting SPPMB EO in preparing the quarterly and semi-annual internal environmental monitoring reports;



### **Assessment of coordination in implementation of the CEMP from June to December of 2014**

During the period of June to December of 2014, SPPMB and its contractors had fulfilled their tasks in the coordination of implementing the CEMP.

#### **SPPMB**

- Assigned its EO from the Resettlement Department to coordinate with the related contractors in implementation of the CEMP, which is under the direction of the deputy director of SPPMB.
- Incorporated the environmental issues in IEE/EMP into the bidding and contract documents. The bidding document for selecting construction contractors were approved on June 05 2013 and June 10 2013 by ADB and NPT respectively;
- The CEMP of subproject was approved by SPPMB in December 2013, which is the basis for the contractor to arrange its staff and the appropriate equipment to implement the mitigation measures effectively at sites (Appendix 1);
- Contracted the National Safeguard Specialist for Environment (NSSE) under the contract No 01/2014 – BQLDA - TVCN dated May 23 2014 with 10 person months in total in an intermittent period of May 23 2014 to May 23 2016 to support SPPMB EO in coordinating the implementation of EMP;
- SPPMB EO worked closely with the NSSE in coordinating implementation of the EMP and EMoP, reported to the SPPMB's leader on the findings on the environmental safeguards at site that need to be resolved. SPPMB issued a Letter No 7478 on October 10 2014, requesting the contractor to make a corrective action plan to resolve the shortcomings found in the Quarter 3<sup>rd</sup> of 2014 immediately (Appendix 4). SPPMB EO visited the specific sites on November 03 2014 to follow up the implementation of the contractor's corrective action plan. SPPMB issued a Letter No 9760/AMN-DB on December 31 2014, requesting the contractors to resolve the environmental issues identified in the 4<sup>th</sup> Quarter 4<sup>th</sup> of 2014.
- SPPMB's technical department (SE) worked as a construction supervision unit that carried out their tasks in supporting the contractors in implementation of the construction measures and the environmental performances at sites, while signing in the monthly environmental compliance report prepared by the contractors before submitting to SPPMB.

#### **NSSE**

- After the contract was signed, the NSSE prepared the subproject's inception report including the detail action plan to carry out its tasks, which was submitted to SPPMB, NPT on June 15, 2014 and ADB on June 20, 2014 for approval.
- Accordingly, the NSSE collaborated with SPPMB EO to prepare a training document and conducted a training workshop on July 10 2014 on learning about the EMP/CEMP and reaching an agreement on the roles and responsibilities of SPPMB and its related contractors in the process of coordinating the implementation of EMP/CEMP.
- Collaborated with the SPPMB EO to conduct a training workshop on the compliance with implementation of the CEMP in October 30 2014 and a training workshop on improving awareness on occupational health and safety for the workers and the community health and safety on November 29, 2014;
- Visited the construction sites monthly to follow up the corrective action plan prepared by contractors to resolve the shortcomings found in the third quarter monitoring trip,

while finding out the achievements and mistakes in terms of environmental performances of contractors in the fourth quarter.

- Worked closely with contractors through email and telephone to collect the monthly environmental compliance report of contractor, which is one of the important inputs for preparing the monthly environmental safeguards report to be submitted to SPPMB and forwarded to ADB's environmental specialist at the end of each month.
- Prepared the fourth quarter and the semi-annual environmental reports to be submitted to SPPMB, NPT and ADB.

### **CONSTRUCTION CONTRACTORS**

- Assigned its staff responsible for working with the NSSE at sites and receiving comments from the NSSE to improve its environmental performances.
- Implemented an action plan to correct the environmental issues found by the NSSE during its period of working at sites (appendix 2);
- Complied with the environmental safeguard policies and the implementation of the CEMP appropriately;
- Prepared and submitted its monthly environmental compliance report to the NSSE and SPPMB on time for consideration;

In summary, the coordination of implementing the CEMP was properly performed among the assigned staff. As a result, the contractor's environmental compliance is good and no complaints related to the environmental performances at sites have been received so far.

### **2.3 Incorporation of environmental consideration into project documents**

The environmental consideration has been incorporated into the project documents such as EMP/IEE and bidding and contract (B&C) documents as stated in Table 2.

**Table 2: Summary of the environmental requirements in EMP/IEE and in B&C documents**

<b>Environmental issues</b>	<b>Environmental requirements in the EMP/IEE</b>
Establishment of contractor's facilities (camps, offices, quarries, concrete batching areas etc).	<ul style="list-style-type: none"> <li>- Sites are located so that they do not interfere with the welfare or social cohesion of surrounding communities</li> <li>- Site is limited to reduce unnecessary clearing of vegetation.</li> <li>- Sanitary soakage areas from offices and camps to be sited so that effluent is treated.</li> <li>- No discharge of grey water or sewage allowed to surface water systems.</li> <li>- Workshops to be provided with oil and water separators.</li> <li>- Fuel storage areas not to be located within 20m of watercourse.</li> <li>- Contractor's storage facilities may need to be surrounded by a security fence.</li> <li>- Concrete batching areas to be provided with bunds to control movement of runoff to waterways.</li> </ul>
Demarcation and clearing of RoW and ancillary facilities	<ul style="list-style-type: none"> <li>- Define the 22m RoW width.</li> <li>- Identify useable trees within the RoW and arrange for these to be approved for removal.</li> <li>- Limit area to be cleared</li> </ul>

Environmental issues	Environmental requirements in the EMP/IEE
	<ul style="list-style-type: none"> <li>- Identify areas with any significant vegetation.</li> <li>- Areas to be defined by a clear boundary.</li> <li>- Clearing boundaries shown to machinery operators.</li> <li>- Vegetative material to be offered to communities for use as fuel wood or</li> <li>- If an impediment to work may otherwise be disposed of by clean burning fires.</li> </ul>
Preparation of site: excavation, removal and disposal of unusable (incompetent) materials	<ul style="list-style-type: none"> <li>- Limit area to be excavated.</li> <li>- Topsoil to be removed and stored for re-use.</li> <li>- Excavated incompetent material to be disposed of outside and away from the work area.</li> <li>- At completion of work dumping areas to be re-top soiled and re-vegetated.</li> </ul>
Dust management	<ul style="list-style-type: none"> <li>- When dust is carried towards residential areas or becomes problematic on-site, the contractor is to apply dust control measures;</li> </ul>
Noise and vibration	<ul style="list-style-type: none"> <li>- If particularly noisy activities are required work may need to be limited to daylight hours.</li> <li>- Noise not to exceed 55dBA at boundary of any residential area between 6hr and 21h00 and 45 dBA between 21h00 and 06h00;</li> </ul>
Wastewater at construction site	<ul style="list-style-type: none"> <li>- Disallow discharge of wastewater directly to water body surrounding the site ;</li> <li>- Make a discharging canal surrounding foundation holes to collect runoff water to be reduced its turbidity before discharging it into water body surrounding the site ;</li> <li>- Disallow spill of oil and fuel from machinery to site;</li> </ul>
Prevention of soil erosion on construction site.	<ul style="list-style-type: none"> <li>- Apply soil conservation and erosion protection technologies.</li> <li>- Avoid operating machinery in adverse ground conditions.</li> <li>- Protect and vegetate newly excavated areas as soon as possible</li> </ul>
Disposal of site waste	<ul style="list-style-type: none"> <li>- All waste materials to be collected and sorted; (i). those that can be recycled and (ii) those that need to go to an approved landfill site for disposal.</li> </ul>
Storage and handling of fuel and lubricants	<ul style="list-style-type: none"> <li>- All fuel storage areas to be secured, fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.</li> <li>- Fuel should be stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment.</li> <li>- All refueling to be done at least 20 m away from waterways by trained personnel</li> <li>- All waste oil and oil filters to be collected and if possible recycled, otherwise to be disposed of to landfills</li> <li>- The contractor is to train refueling personnel in these procedures. The contractor is to have developed an accidental spill handling action plan</li> </ul>

Environmental issues	Environmental requirements in the EMP/IEE
Community Safety from increased vehicle movements	<ul style="list-style-type: none"> <li>- All vehicles to be properly maintained and operated in accordance with road laws.</li> <li>- All loads to be properly secured and fugitive loads to be covered.</li> <li>- Drivers to be fined if ignoring safety requirements.</li> </ul>
Workplace health and safety	<p>Contractor to abide by Vietnamese Labor Code as amended 2002. Workers to be provided with safe working environment including:</p> <ul style="list-style-type: none"> <li>- Erect warning signs and barriers around work areas</li> <li>- No drugs or alcohol allowed on-site</li> <li>- Noise and dust to be controlled.</li> <li>- All workers provided with safety equipment appropriate for the task in which they are employed.</li> </ul> <p>To be supplied on-site for workers:</p> <ul style="list-style-type: none"> <li>- Potable water, chemical toilet, changing place with clothes storage, and washing and showering facilities.</li> <li>- Work Statements prepared for each activity</li> <li>- Prior to entering site for first time workers to be inducted to site and site hazards with explanation of work site safety procedures.</li> <li>- Medical and first aid facilities provided together with a person qualified in first aid.</li> </ul>
Chance discovery of archaeological and cultural sites	<ul style="list-style-type: none"> <li>- No known sites. Chance discoveries are to be notified to the SE who will advise the EO. EO to advice on procedure for dealing with chance discoveries.</li> </ul>
Clearance and rehabilitation of Construction sites and removal of contractor's facilities.	<ul style="list-style-type: none"> <li>- All solid waste to be removed from sites and disposed in approved landfills.</li> <li>- All contaminated soil to be removed.</li> <li>- All sites to be rehabilitated and restored to original condition.</li> <li>- Drainage to be re-established.</li> <li>- To be included as part of Final Inspection before payment made.</li> </ul>
Public access to site	<ul style="list-style-type: none"> <li>- Erect warning signs and barriers around work areas.</li> <li>- Site can only be access with permission of contractor.</li> <li>- Visitors to be inducted to site with an explanation of the site hazards that may be experienced.</li> </ul>
Community and worker health and safety	<ul style="list-style-type: none"> <li>- Promulgate, educate workers on the social problems.</li> <li>- Implement measures of preventing HIV/AIDS;</li> <li>- Provide safe and sanitary condition for workers in camps in terms of sanitation, safe water and cooking;</li> <li>- Worker's camps shall be constructed in a high places and use more local workers for normal works;</li> <li>- Equip workers with labor protecting equipment and force them to wear during working time.</li> <li>- Provide means of first aid, medicines at site and camps for workers;</li> <li>- Ensure sanitation in worker's camps. Provide dust bin to collect wastes;</li> <li>- Prohibit hunting and trading wild animals;</li> </ul>



### 3. PROGRESS OF SUBPROJECT IMPLEMENTATION

The contract of constructing the 220KV Cau Bong – Hoc Mon – Binh Tan transmission line subproject was signed on February 14, 2014 between SPPMB and the Association of PCC1 and VNECO at a Contract No. 040/HĐXL-BQLDA-PCC1/VNECO, of which PCC1 is head of the Association.

**Implementation progress:** The subproject was executed on June 10, 2014 and expected to be finished in September 2015. As of December 31, 2014, the work progress has achieved about 51% of all works, which are specified in Table 3.

**Table 3: Progress of subproject implementation**

Contractor	No of towers	Implementation progress						
		Excavate foundation	Concrete foundation	Install lightning rods	Return ground	Erect Tower	Drag wire	Total
PCC1	29	22/29 76%	22/29 76%	21/29 72%	19/29 66%	11/29 38%	0 0%	55%
VNECO	30	22/30 73%	21/30 70%	16/30 53%	16/30 53%	9/30 30%	0/30 0%	47%
OVERALL IMPLEMENTATION PROGRESS OF THE ASSOCIATION (as of 31 December 2014)								51%

### 4. ENVIRONMENT COMPLIANCE MONITORING

#### 4.1 Environment compliance at construction sites

In the initial period of execution, the contractor focused on preparing ground for execution and excavating foundations at the tower locations. Most of the positions are located in the paddy fields that had just been harvested and grass fields, and which is far from the residential areas and traffic roads. During the fourth quarter of 2014, the contractors covered and restored the ground for the foundations that have been finished, erected towers and continued excavating the foundations at the tower sites that have been handed over to the contractor. Apart from the sites being executed in the paddy fields and grass fields, there are several towers near residential areas and roads. Contractors have not stored hazardous materials such as oils, lubricants and repaired machines at sites.

As of 31 December of 2014, the monitoring result has shown that Contractors have complied with implementation of the mitigation measures at site. They performed well in reducing dust, noise, vibration, landslides; not blocking water flows and preventing damage to trees and areas adjacent to the construction sites. The contractors mostly rehabilitated the environment after construction, fully repaired and compensated for any damages and losses caused by the construction and have improved in collecting and classifying the construction wastes such as cement bags, iron materials and plastic cans to be reused or recycled.

Beside the contractor's compliance in the implementation of mitigation measures, the resolved environmental issues found in the 3<sup>rd</sup> quarter of 2014, several issues were observed in the 4<sup>th</sup> quarter of 2014 when contractors constructing the towers located near

the residential areas and the traffic roads. The negative impacts and the mitigation measures undertaken by the contractors in both quarters are summarized in Table 4.

**Table 4: Summary of the adverse impacts and applied mitigation measures at sites**

Position/ time	Adverse impacts	Implemented mitigation measures	Implementing agency	Recommended activities
Construction of tower foundation, restoring ground and during the period of mixing concrete and transporting materials	Dust generated from activity of mixing concrete, restoring ground and transporting construction materials will affect air quality of workplaces and surrounding community	Trucks transporting construction materials such as sand, soil, stones were carefully covered to avoid generating dust  Watering the excavated soil at the places near the residential areas and traffic roads  Workers wore masks during the time of mixing concrete	Contractors of PCC1 and VNECO	
Construction of tower foundations and during operation of hammering piles and machines (specific towers of No 3, 29, 17, 39)	Noise generated from hammering piles, excavating and operating machines will affect workers at workplaces, surrounding communities and works located next to the construction sites.	Operating machines are technically regularly examined;  No construction activities conducted at night time at the positions that can affect residential areas;	Contractors Contractor PCC1 and VNECO	
Tower foundation execution and transporting materials to sites in the paddy fields	Transporting materials to sites damaged community roads and banks of paddy fields;  Preparing temporary roads blocks flow of water;	Banks of paddy fields were repaired after completion of construction;  The damaged community road was repaired on time, making sure no adverse affect to the community's activities.	Contractors of PCC1 and VNECO	

	<p>Discharging the turbid water from foundation holes directly to rice fields caused sedimentation surrounding</p> <p>Use private land to store materials temporarily without permission;</p>	<p>Conduits in canals was put before making temporary roads on;</p> <p>Turbidity of water was being reduced before pumping it out.</p> <p>Dredging sedimentation to restore the water bodies to its original condition;</p> <p>An agreement on borrowing/ renting land for storing materials has been conducted.</p>		
Positions of tower construction and time of foundation excavation	Excavation of foundation, hampering piles and machine operation may cause landslides, damages of the works and houses around the sites	<p>Assess the status of works and houses surrounding the sites before construction;</p> <p>Build technical piles against landslides.</p> <p>Have an agreement with the land owner for compensation of loss;</p>	Contractor of PCC1 and VNECO	The contractor of VNECO should rebuild the damaged wall and corridor for Tho Nam Sang Environmental Company as committed by both sides when the tower No 17 was completed its part of foundation construction.
Positions of tower foundation construction	Solid wastes such as cement bags, xika cans and nylon not perfectly managed, recycled and reused.	Cement bags and xika cans are managed but not tidy enough and not reasonably recycled and reused.	Contractor of VNECO and PCC1	The contractor VNECO should continue to collect the cement bags and keep them tidy for reusing and recycling as regulated (at tower No. 13, Tan Thanh Dong commune, Cu Chi district);
All towers after completion of	Covering and restoring ground totally after	All land contractors rent for making temporary roads,	Contractor of VNECO and PCC1	The contractor VNECO should restore the

foundation	completion of construction to its original status was not on time especially the land temporarily affected during the time of foundation execution only;	preparing piles, especially the temporarily affected land during the period of excavating foundation only were returned into its previous status and in time for the AHs to use.		ground for the AH to cultivate the temporarily affected land in keeping up with the planting season schedule; (at tower No. 11 and No.13 in Tan Thanh Dong commune)
The positions of tower No 17, 39, 25, 09, 19 adjacent to traffic roads and the existing electricity lines	Safety hazard in case of violating the RoW of the adjacent works; Traffic jam or traffic accidents may occur in case of violation of transportation rules.	Before executing, contractor committed not to violate the RoW of existing works;  Informed the local authorities and the related agencies on the time of execution for a cooperation;  Storing materials orderly without violating the RoW of traffic roads.	Contractors of PCC1 and VNECO	

#### 4.1.2 Resolved environmental issues

In compliance with the Letter No. 7478 issued by SPPMB on 10 October 2014, all contractors resolved the environmental issues found in the 3<sup>rd</sup> quarter of 2014 during the monitoring conducted on 10 to 25 October 2014. The actions that were undertaken are as follows:

- Contractor PCC1 repaired the community road that was damaged by transporting materials to the site of tower No. 4, at Tan Phu Trung commune. The current status of the road is better than its original condition.
- Contractor PCC1 dredged the sedimentation caused by pumping directly to the rice field the muddy water from the foundation hole of tower No.4 at Tan Phu Trung commune, returned the ground to its original condition and compensated all damaged rice to the villager.
- Contractor VNECO rent a plot of land of a local resident and removed the materials that were temporarily stored beside the community road to transfer to the rented land during the time of erecting the tower No 20 at village No 7, Binh My commune, which overcome the traffic difficulty of villagers in that time.
- Contractor PCC1 and VNECO collected and classified the cement bags and Xika cans at the construction sites of towers of No 4, 9, 21 and 25 for reusing and recycling.

Most of the environmental performances of contractors were maintained and improved in the following period of construction.

#### **4.2 Contractor's Compliance with safety and health for workers and communities**

Contractors mobilized most local laborers for the simple works. All of them stayed overnight in their houses. The workers' camp at site serves as a temporary place for workers staying at noontime and for protecting materials at nighttime only. All contractors have their offices located close to the sites, which is also the accommodation for their technical staff. In the 3<sup>rd</sup> quarter, most of the constructed towers stood in the paddy fields and grass fields far from the residential areas and traffic roads. In the 4<sup>th</sup> quarter of 2014, several tower positions located close to the residential areas and near the traffic roads are being executed. Activities to ensure labor safety and community health are monitored by SPPMB and contractors.

##### **4.2.1 Main issues related to occupational safety and health of workers and communities**

- Selecting appropriate locations for building worker camps;
- Keeping environmental sanitation around the temporary worker camps;
- Providing workers with labor equipment suitable with their works at construction site;
- Keeping safety when operating machines at sites;
- Status of safety on construction sites (warning signs and barriers)
- Preparing for first aid;
- Educating workers on transmission of social diseases such as HIV/AIDS;
- Transporting safety and community rest.

##### **4.2.2 Contractor's achievements in the implementation of mitigation measures**

In terms of health and safety of the workers and local communities, the contractors were in compliance with the regulations of CEMP, typically:

- All migrant workers have registered as the temporary residents to local authorities, respected to local cultures and have a good relation with the community; protected forests and wild animals; no construction at night time especially at positions near to the residential areas; and the drivers complied with the Law of transportation at sites;
- All workers have been educated to improve their awareness on social diseases especially HIV/AIDS;
- The contractors have issued the labor safety regulations and provided the workers with the labor protecting equipment and reminded them to use while working at site.
- The contractors have built the temporary camps for the workers at sites for guarding the construction materials at nighttime and taking a short rest at lunchtime with the adequate provision of potable water and first aid medicines. The camps are located

at the ventilated and safe places, which was equipped with dust bins and hygienic toilets.

#### 4.2.3 Environmental issues completely resolved

In compliance with the required Letter No. 7478 issued by SPPMB on October 10 2014, all contractors resolved the environmental issues found in the 3<sup>rd</sup> quarter of 2014 during the monitoring conducted on 10 to 25 October 2014. The actions undertaken are as follows:

- Contractor PCC1 and VNECO provided their worker's camps with dustbins to collect and segregate garbage at place. The organic garbage was buried as regulated at site because no local services have access to the sites during the construction period. The plastics were reused and sold for recycling.
- Contractor equipped their workers with adequate of labor protective equipment and required them to use the equipment appropriately during the working time, for example, those welding must wear dark glasses and gloves.
- Contractor PCC1 and VNECO provided their worker's camps with first aid medicines.

#### 4.2.4 Negative impacts, mitigation measures and recommended activities

All negative impacts and mitigation measures for occupational and community health and safety are summarized in Table 5.

**Table 5: Summary of adverse impacts and mitigation measures for labor safety and community health**

Position/ time	Adverse impacts	Implemented mitigation measures	Implement agency	Recommended activities
All temporary camps at sites tower No 25, 09, 03 of PCC1 and tower No 21, 17 of VNECO	Domestic wastes not yet carefully collected will affect workers' health	Worker's camps are located at high and ventilated places and have hygienic toilets;  Provide garbage bins at sites to collect, classify and treat wastes following the regulations;	Contractors of PCC1 and VNECO	
All workplaces	Workplace accidents and health of workers; loss of productivity Accidents to surrounding communities	No drugs and alcohol allowed on site;  Supplying portable water and sanitary toilets on site for workers;  Issuing the regulation on labor safety at site;  Erect warning signs and barriers around work areas;	Contractors of PCC1 and VNECO	The contractor VNECO should install fences, signal lights and boards around the tower to warn people about a deep hole being excavated; (at towers No 39 in Tam Thon 3 village, Thoi Tam Thon commune,

Position/ time	Adverse impacts	Implemented mitigation measures	Implement agency	Recommended activities
		<p>Construction site can only be accessed with permission of Contractors.</p> <p>Providing workers with adequate laborer's protective equipment;</p> <p>Providing the worker's camps with a box of necessary medicines for first aid;</p> <p>Install signal board at construction sites</p>		Hoc Mon district)
All roads used for transporting materials to sites	Accidents to surrounding communities from vehicles transiting villages.	<p>All vehicles to be properly maintained and operated in accordance with road laws.</p> <p>All loads to be properly secured and fugitive loads are covered.</p> <p>Drivers are fined if ignoring safety requirements.</p>	Contractors of PCC1 and VNECO	The contractor VNECO should install warning traffic signs at Vo Van Bich street to meet the traffic safety regulations (at tower No 17, Tan Thanh Dong commune)
All workplaces and worker's camps	Loss of cultural value; Disturbance to forest, wildlife; Social unrest	<p>Chance discovery notified to local functioning agencies for resolving</p> <p>Educating workers on social transmission diseases HIV/AIDS;</p> <p>Registering temporary residence for workers with local authorities; No hunting wild animals and protecting forest.</p>	Contractors of PCC1 and VNECO, SE and EO	

## **5. SUMMARY OF KEY ENVIRONEMNTAL ISSUES THAT NEED TO BE RESOLVED**

### **5.1. Identified key environmental issues**

#### **5.1.1 Environmental issues at site**

- **Issues found in the third quarter of 2014**
  - Contractor gathers its construction materials untidily, which may affect the road traffic (at the tower No. 20, village No 8, Binh My commune, Cu Chi district).
  - The community road access to the tower No. 4, Lang Cat village, Tan Phu Trung commune, Cu Chi district is damaged because the contractor transported heavy materials to the site.
  - In several tower foundations, contractors managed its construction wastes such as cement bags and xika cans disorderly (at the tower foundation No 4, Lang Cat village, Tan Phu Trung commune; the tower No. 9, Lang Cha village, Tan Thanh Dong commune; the tower No. 25, village No 7, Binh My commune and the tower No 21, 8 village, Binh My commune, Cu Chi district);
  - Status of sedimentation occurred at the surrounding paddy field because of pumping directly the turbidity water from the foundation holes into the field (at the tower No 4, Lang cat village, Tan Phu Trung commune, Cu Chi district).
- **Issues identified in the fourth quarter of 2014**
  - The construction wastes (cement bags) at the tower No. 13 of Tan Thanh Dong commune, Cu Chi district were not collected and classified for reusing and recycling as regulated;
  - The ground of the tower No. 13 and No. 11 of Tan Thanh Dong commune, Cu Chi district were not returned in time for the AHs to farm during the planting period;
  - The excavation at the tower No. 17 damaged the wall and corridor of Tho Nam Sang Environmental Company located at 33 VoVan Bich Street, village 11, Tan Thanh Dong commune. Fortunately, both sides have discussed and agreed on rebuilding them to its previous conditions after the foundation construction completed.

#### **5.1.2 Resolved environmental issues**

- All the environmental issues found in the third quarter of 2014 were totally resolved from 10 to 25 October 2014 and most of them were maintained and improved in the following period of construction.
- Contractor PCC1 repaired the community road that was damaged by transporting materials to the site of tower No. 4, at Tan Phu Trung commune. The current status of the road is better than its original condition.
- Contractor PCC1 dredged the sedimentation caused by pumping directly to the rice field the muddy water from the foundation hole of tower No.4 at Tan Phu Trung commune, returned the ground to its original condition and compensated all damaged rice to the villager.
- Contractor VNECO rent a plot of land of a local resident and removed the materials that were temporarily stored beside the community road to the rented land during the time of erecting the tower No 20 at village No 7, Binh My commune, which overcome the traffic difficulty of villagers in that time.



- Contractor PCC1 and VNECO collected and classified the cement bags and Xika cans at the construction sites of towers of No 4, 9, 21 and 25 for reusing and recycling.

### **5.1.3. Contractor's performances need to be improved**

The findings during the fourth quarter environmental monitoring are planning to be resolved and the results will be reflected in the first quarter of 2015 environmental report.

- The contractor VNECO must wrap the cement bags tidily for reusing and recycling as regulated (at tower No. 13, Tan Thanh Dong commune, Cu Chi district);
- The contractor VNECO must return the ground at tower No. 11 and No.13 for the AH to cultivate the temporarily affected land in keeping up with the planting season schedule;
- The contractor VNECO should rebuild the damaged wall and corridor for Tho Nam Sang Environmental Company to its original conditions as committed between the two sides (tower No. 17, Tan Thanh Dong commune, Cu Chi district);

## **5.2 Environmental issues in safety and health for workers and affected communities**

### **5.2.1 Identified environmental issues**

#### **• Issues found in the third quarter of 2014**

- The environmental sanitation surrounding the temporary worker camps is unhygienic (at the tower No 4, 9, 21 and 25);
- Most of the workers did not use adequately the labor protective equipments when working, for example the welders and iron cutters operating without using the protective glasses and gloves;
- Most of the contractors have not prepared well for responding to the first aid in case of accidents.

#### **• Issues generated during the fourth quarter of 2014**

- The contractor has not installed any warning signs at Vo Van Bich street, adjacent to which the tower No. 17 is being constructed, which may be at risk for the traffic activities.
- The contractor has not set up barriers and warning signs around the deep foundation hole of tower No 39 being excavated, which is located within the residential area of Tam Thon 3 village, Thoi Tam Thon commune, Hoc Mon district.

### **5.2.2 Resolved environmental issues**

All the environmental issues found in the third quarter of 2014 were totally resolved from 10 to 25 October 2014 and most of them were maintained and improved in the following period of construction.

- Contractor PCC1 and VNECO provided their worker's camps with dustbins to collect and classified garbage at place. The organic garbage was buried as regulated at site because no local services have access to the sites during the construction period. The plastic garbage was reused and sold for recycling.
- Contractor equipped their workers with adequate labor protective equipment and forced them to use appropriately during the working time, for example, those welding must wear dark glasses and gloves.
- Contractor PCC1 and VNECO provided their worker's camps with first aid medicines.

### 5.2.3 Contractor's performances need to be improved

The adverse findings during the fourth quarter environmental monitoring will be resolved and the results will be reflected in the first quarter of 2015 environmental report.

- The contractor must ask local traffic agency for a permission to erect warning signs at both sides of Vo Van Bich street to meet the traffic regulations;
- The contractor must install fences, signal lights and boards around the tower No. 39 to warn people about a deep hole being excavated.

### 5.3 Summary of the environmental issues already resolved and follow-up actions

The environmental issues found in the third quarter of 2014 have been addressed by SPPMB together with its assigned contractors. Some issues generated in the fourth quarter of 2014 are planned to be resolved under the Letter No.9760 issued by SPPMB on December 31, 2014. The actions undertaken to address these issues will be reported in the first quarter of 2015 environmental monitoring report. A summary of the environmental issues that have been resolved and the follow-up actions are presented in Table 6.

**Table 6: Summary of environmental issues already resolved and some planned to be resolved in the next time follow-up actions**

No	Issues	Causes	Recommended Actions	Responsibility	Target days	Results
I	<b>Environmental issues already resolved</b>					
1	Gathering materials to site to erect tower No. 20 adversely impacted on the community traffic road	Contractor did not borrow a temporary land to put the materials during the time of erecting the tower;	Contractor should borrow the villager's land to store the materials during the time of erecting the tower	VNECO	From 10 to 25 October 2014	Complied
2	The community road of Tan Phu Trung commune was damaged;	Contractor transported heavy materials to the construction site of tower No 4.	Contractor should repair the road to its original condition.	PCC1	From 10 to 25 October 2014	Complied
3	Construction wastes such as Nylon and cement bags were not collected and treated as regulated.	Contractors did not comply with the requirements	All nylon and cement bags at sites should be kept tidy for reusing and selling for recycling	PCC1, VNECO	From 10 – 25 October 2014	Complied
4	Sedimentation at tower No 4 damaged ricefield of a	Muddy water from the foundation holes was	Contractor should pump the turbid water to an pond to clear the water	PCC1	From 10 – 25 October 2014	Complied

No	Issues	Causes	Recommended Actions	Responsibility	Target days	Results
	villager.	discharged directly to the rice field.	before running to the body water; dredge the sedimentation and compensate the losses for the villager.			
5	Around the worker's camps of towers of No 19 and No 25 was not sanitized;	The garbage was not collected and treated as regulated	Contractor should equip the workers' camps with separate dustbins to classify the garbage at camps; the organics should be buried as regulated and the plastics should be segregated for reusing or recycling.	PCC1 and VNECO	From 10 October 2014	Partly complied  Continue implementation and monitoring
6	The workers were not using appropriate labor protective equipment when working at sites.	The workers are unwilling and contractors do not force them to use the labor protective equipment appropriately	Contractor should provide the workers with adequate labor protective equipment and force them to use appropriately when working at sites, e.g. Those welding must wear dark glasses and gloves.	PCC1 and VNECO	From 10 - 25 October 2014	Complied
7	First aid conditions is unavailable at site camps;	Contractors are unwilling to apply	Contract should set up a box of first aid medicines at the site camps.	PCC1 and VNECO	From 10 to 25 October 2014	Partly complied.  Continued implementation and monitoring
<b>II</b>	<b>Environmental issues planned to be resolved in the next period</b>					
1	The cement bags at tower No 13 was not collected and treated as regulated	Contractor was not in compliance with the mitigation measure	Contractor should continue collecting the cement bags for reusing and recycling	VNECO	From 05 to 15 January 2015	
2	The ground of tower No 13 and 11 in Tan Thanh Dong	Contractor determined exact scope of	Contractor should continue returning the ground of towers of 11 and	VNECO	05 to 15 January 2015	

No	Issues	Causes	Recommended Actions	Responsibility	Target days	Results
	commune were not returned in time for farmers to cultivate their land	temporarily acquired land at the tower 13 when returning the ground	13 for farming			
3	Tho Nam Sang company factory's wall and corridor was damaged by excavating the foundation of tower No 17, Tan Thanh Dong commune.	Although the technical measure applied before construction, the wall and corridor of factory was damaged	Contractor will rebuild the wall and corridor for the company	VNECO	25 to January 2015	
4	No warning board set up at tower no 17 being excavated, which is near Vo Van Bich traffic road	Contractor's compliance with the mitigation measure was not completely implemented	Contractor should ask local traffic agency to install traffic warning boards at both sides of Vo Van Bich street, following the traffic safety regulation	VNECO	02 to 10 January 2015	
5	No warning sign, lighting and barriers set up at tower no 39 being excavated	Contractor's compliance with the mitigation measure was not completed	Contractor should set up barriers around the tower with signal lights at night time.	VNECO	02 to 10 January 2015	

## 6. CONCLUSION AND RECOMMENDATIONS

### 6.1 Conclusion

**Implementation progress:** The subproject was executed on June 10, 2014 and expected to be finished in September 2015. As of December 31, 2014, the implementation progress achieved about 51% compared with the overall plan.

The EMP and EMoP were properly performed by SPPMB and its related contractors, which is in compliance with both environmental policies of ADB and the Government. All involved parties mentioned in the institutional arrangement fulfilled their assigned tasks.

The SPPMB's staff and its contractor's workers have improved their awareness on the occupational health and safety as well as the community health and safety throughout the training workshops.

The environmental safeguard monitoring results in the period of June to December of 2014 have revealed that the contractor's environmental compliance is good. The outstanding issues on implementing the CEMP, the resolved environmental issues and the issues are planning to be addressed in the next period are summarized as follows:

❖ **The contractor's compliance with the implementation of CEMP**

- The contractors have agreed with the AHs on the compensation and land clearance before execution;
- The contractors have seriously complied with the construction measures that are approved by SPPMB;

In terms of implementation of the mitigation measures to address the negative impacts on environment at site:

- The contractors performed well in reducing dust, noise, vibration, landslides; not blocking water flows and preventing damage to trees and areas adjacent to the construction sites;
- The contractors mostly rehabilitated the environment after construction, fully repaired and compensated for any damages and losses caused by the construction.
- The contractors improved in collecting and classifying the construction wastes such as cement bags, iron materials, and plastic cans to be reused or recycled.

In terms of health and safety of the workers and local communities, the contractors were in compliance with the CEMP, typically:

- All migrant workers have registered as the temporary residents to local authorities, respected to local cultures and have a good relation with the community; protected forests and wild animals; all the drivers complied with Law on transportation;
- All workers have been educated to improve their awareness on social diseases especially HIV/AIDS;
- The contractors have issued the labor safety regulations and provided the workers with the labor protecting equipment and reminded them to use during the time of working at site.
- The contractors have built the temporary camps for the workers at sites for guarding the construction materials at nighttime and taking a short rest at lunchtime with the adequate provision of potable water and first aid medicines. The camps are located at the ventilated and safe places, which was provided with dustbins and hygienic toilets;

❖ **Environmental issues that have been resolved**

In compliance with the Letter No 7478 issued by SPPMB on October 10 2014, all contractor resolved the environmental issues found in the 3<sup>rd</sup> quarter 3<sup>rd</sup> of 2014 during the monitoring conducted on 10 to 25 October 2014. The actions that were undertaken are as follows:

- Contractor PCC1 repaired the community road that was damaged by transporting materials to the site of tower No 4, at Tan Phu Trung commune. The current status of the road is better than its original condition;
- Contractor PCC1 dredged the sedimentation caused by pumping directly to the rice field the muddy water from the foundation hole of tower No.4 at Tan Phu Trung commune, returned the ground to its original condition and compensated all damaged rice to the villager.
- Contractor VNECO rent a plot of land of a local resident and removed the materials that were temporarily stored beside the community road to the rented land during the time of erecting the tower No 20 at village No 7, Binh My commune, which overcome the traffic difficulty of villagers in that time.

- Contractor PCC1 and VNECO collected and classified the cement bags and Xika cans littered at the towers of No 4, 9, 21 and 25 for reusing and recycling.
- Contractor PCC1 and VNECO provided their worker's camps with dustbins to collect and classified garbage at place. The organic garbage was buried as regulated at site because no local services have access to the sites during the construction period. The plastic garbage was reused and sold for recycling.
- Contractor equipped their workers with adequacy of labor protective equipment and forced them to use appropriately during the working time, for example, those welding must wear dark glasses and gloves.
- Contractor PCC1 and VNECO provided their worker's camps with first aid medicines.
- Most of the environmental performances were maintained and improved in the following period of construction.

## **6.2 Environmental issues need to be resolved in next period**

- The contractor VNECO should wrap the cement bags tidily for reusing and recycling as regulated (at tower No. 13, Tan Thanh Dong commune, Cu Chi district);
- The contractor VNECO should return the ground at tower No. 11 and No.13 for the AHs to cultivate the land as scheduled;
- The contractor VNECO should rebuild the damaged wall and corridor for Tho Nam Sang Environmental Company to its original condition as committed between the two sides (tower No. 17, Tan Thanh Dong commune, Cu Chi district);
- The contractor should ask local traffic agency for a permission to erect warning signs at both sides of Vo Van Bich street to meet the traffic regulations;
- The contractor should install fences, signal lights and boards around the tower No. 39 to warn people about a deep hole being excavated (Tower No. 39, Tam Thon 3 village, Thoi Tam Thon commune, Hoc Mon district).




### **• Plan to overcome the environmental issues**

Based on the recommendations made by NSSE, SPPMB issued a Letter No 9760/AMN-ĐB dated December 31 2014, requesting the contractors to resolve the identified environmental issues immediately on the period of 02 to 30 January 2015. The follow-up actions, progress and results of resolving the issues will be reflected in the first quarter of 2015 environmental monitoring report.

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## APPENDICES

### Appendix 1: The approved CEMP

	<b>CÔNG TY CỔ PHẦN XÂY LẬP ĐIỆN I</b> POWER CONSTRUCTION JOINT STOCK COMPANY No.1 Trụ sở làm việc: Số 583 Nguyễn Trãi - Quận Thanh Xuân - Hà Nội - Việt Nam Điện thoại: 084-04.38.456.329 Website: www.pcc1.vn	 
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**CONTRACTORS ENVIRONMENTAL MANAGEMENT PLAN  
(CEMP)**

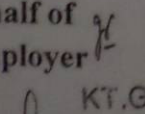
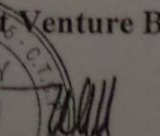


**Name of subproject: 220kV Cau Bong – Hoc Mon – Binh Tan Transmission Line**

**Package 3: Construction Erection works for lot 2**

**Name of Contractor: Power Construction Joinstock Company No.1**

**Address: 583 Nguyen Trai Street, Thanh Xuan District, Ha Noi City**

<b>On Behalf of The Employer</b>	<b>On Behalf of Joint Venture Bidders</b>
 KT. GIÁM ĐỐC PHÓ GIÁM ĐỐC	 TỔNG GIÁM ĐỐC
	

## Appendix 2: Contractor's staff responsible for implementing the CEMP

**LIÊN DANH NHÀ THẦU      CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**  
**PCCI & VNECO      Độc lập - Tự do - Hạnh phúc**

Số: **248**/CV-PCC-KTCN      Hà Nội, ngày 17 tháng 06 năm 2014

V/v Nhân sự thực hiện kế hoạch quản lý môi trường gói thầu số 3 - lô 2, đường dây 220kV Cầu Bông - Hóc Môn - rẽ Bình Tân và mở rộng ngăn lộ.

Kính gửi: Ban quản lý dự án các công trình điện miền Nam

Căn cứ Hợp đồng số: 040/2014/HDXL-SPPMB-PCC1/VNECO ngày 14 tháng 02 năm 2014 giữa Ban Quản lý dự án các công trình điện Miền Nam và Liên danh Nhà thầu Công ty Cổ phần Xây lắp Điện 1 & Tổng Công ty Cổ phần Xây dựng Điện Việt Nam về việc “Xây lắp đường dây và ngăn lộ” dự án “Đường dây 220kV Cầu Bông - Hóc Môn - rẽ Bình Tân”;

Căn cứ công văn số 4165/AMN-DB của Ban quản lý dự án các công trình điện miền Nam v/v bố trí cán bộ làm việc với chuyên gia Tư vấn an toàn môi trường tại hiện trường ĐZ 220kV Cầu Bông - Đức Hòa và ĐZ 220kV Cầu Bông - Hóc Môn - rẽ Bình Tân;


Căn cứ các danh mục tài liệu của Tư vấn cá nhân yêu cầu,

PCC1 xin gửi tới quý Ban danh sách nhân sự thực hiện kế hoạch quản lý môi trường trong quá trình thi công công trình như sau:

Stt	Họ và tên	Phân công	Ghi chú
1	Nguyễn Duy Chung	Kỹ sư hiện trường (SE).	0917224329 Chungnd@pcc1.vn
2	Nguyễn Văn Thịnh	Chuyên viên liên lạc cộng đồng (CLO).	0913042654 Thinhnv@pcc1.com.vn
3	Nguyễn Quang Vinh	Phụ trách an toàn sức khỏe và môi trường (ESHO).	0967055665 Vinhpcc1@gmail.com
4	Nguyễn Minh Hải		0918877155 Haiminh1903@yahoo.com.vn

Rất mong nhận được sự quan tâm phối hợp của quý Ban.  
Trân trọng cảm ơn!

**Nơi nhận:**  
- Như trên;  
- VNECO (để p/hợp);  
- PCC1-MN;  
- Lưu Ban CHC

**TỔNG GIÁM ĐỐC**  
  
TỔNG GIÁM ĐỐC CÔNG TY  
PHÓ TỔNG GIÁM ĐỐC  
*Dặng Văn Nghĩa*



**TỔNG CÔNG TY CỔ PHẦN  
XÂY DỰNG ĐIỆN VIỆT NAM**

Số: 979 CV/VNECO - KTVT

V/v: Nhân sự thực hiện kế hoạch quản lý môi trường gói thầu số 3-lô 2, đường dây 220kV Cầu Bông – Hóc Môn – rẽ Bình Tân

**CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**

Độc lập - Tự do - Hạnh phúc

Đà Nẵng, ngày 30 tháng 06 năm 2014

**Kính gửi: Ban quản lý dự án các công trình điện Miền Nam**

Liên doanh nhà thầu Công ty cổ phần Xây lắp điện I và Tổng công ty cổ phần xây dựng điện Việt Nam đảm nhận thi công xây lắp đường dây 220kV Cầu Bông – Hóc Môn – rẽ Bình Tân”.

Căn cứ công văn số 4165/AMN-ĐB ngày 18/06/2014 của Ban quản lý dự án các công trình điện Miền Nam v/v bố trí cán bộ làm việc với chuyên gia Tư vấn an toàn môi trường tại hiện trường ĐZ 220kV Cầu Bông – Hóc Môn – rẽ Bình Tân.

Tổng công ty cổ phần xây dựng điện Việt Nam đề trình danh sách nhân sự thực hiện kế hoạch quản lý môi trường trong quá trình thi công công trình và báo cáo thực hiện CMEP như sau:

STT	Họ và tên	Phân công	Ghi chú
1	Nguyễn Đức Hiếu	Kỹ sư hiện trường (SE)	0905633294 duchieuvneco@gmail.com
2	Hoàng Mạnh Hùng	Chuyên viên liên lạc Cộng đồng(CLO)	0935555720 hungbql86@gmail.com
3	Cần Trung Hưng	Phụ trách an toàn sức khỏe và môi trường (ESHO)	0918009254 cantrunghung@gmail.com
4	Võ Duy Thủy		0916484007 duythuytravinh@gmail.com
5	Đỗ Văn Nam		0914000084
6	Lê Đình Danh		0917363233

Rất mong nhận được sự quan tâm phối hợp của Quý Ban.

Trân trọng cảm ơn!.

Đính kèm: báo cáo thực hiện CMEP của nhà thầu

Nơi nhận:

- Như trên.
- Lưu KTVT.

**TỔNG GIÁM ĐỐC**  
**TỔNG GIÁM ĐỐC**  
**TỔNG CÔNG TY CỔ PHẦN**  
**XÂY DỰNG ĐIỆN VIỆT NAM**  
**THÀNH KHÉ - TP. ĐÀ NẴNG**  
**NGUYỄN TRỌNG BÌNH**

### Appendix 3: Training workshops on environmental safeguard policies conducted by ADB's environmental specialist



### Appendix 4: Letter issued by SPMB requesting contractors to resolve the environment issues found in the third quarter environmental monitoring trip

TỔNG CÔNG TY  
TRUYỀN TẢI ĐIỆN QUỐC GIA  
BAN QUẢN LÝ DỰ ÁN  
CÁC CÔNG TRÌNH ĐIỆN MIỀN NAM

Số: **7 478** /AMN-ĐB

V/v: Khắc phục các thiếu sót trong  
quá trình thi công đường dây 220kV  
Cầu Bông – Đức Hòa và Cầu Bông -  
Hóc Môn – rẽ Bình Tân.

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM  
Độc lập - Tự do - Hạnh phúc

TP. Hồ Chí Minh, ngày 10 tháng 10 năm 2014

Kính gửi: - Tổng Công ty Cổ phần Xây dựng Điện Việt Nam;  
- Công ty Cổ phần Xây lắp Điện 1;  
- Công ty Cổ phần Sông Đà 11;  
- Công ty TNHH MTV Sông Đà 11 – Thăng Long;  
- Công ty Cổ phần lắp máy và Xây dựng Điện.

Đường dây 220kV Cầu Bông – Đức Hòa và Cầu Bông – Hóc Môn – rẽ Bình Tân được đầu tư xây dựng bằng vốn vay của Ngân hàng phát triển châu Á (ADB). Để đảm bảo đáp ứng đầy đủ các yêu cầu của tổ chức này, Ban QLDA đã ký hợp đồng với ông Dương Đình Dũng – chuyên gia Tư vấn an toàn về môi trường cho hai dự án trên. Kết quả giám sát của Tư vấn sẽ gửi cho ADB và đây là một trong những điều kiện bắt buộc để giải ngân.

Qua công tác kiểm tra, đánh giá tại hiện trường và rà soát tài liệu dự án đường dây 220kV Cầu Bông – Đức Hòa và Cầu Bông – Hóc Môn – rẽ Bình Tân, Tư vấn an toàn về môi trường đã đề nghị các đơn vị xây lắp khắc phục các thiếu sót trong quá trình thi công theo thư số 0314/DDD-TV ngày 08/10/2014. Cụ thể như sau:

1. Tập kết vật liệu tại công trường chưa gọn gàng ảnh hưởng đến lối đi của người dân (tại móng trụ 20, ấp 8, xã Bình Mỹ, huyện Củ Chi, VNECO);
2. Đường giao thông dân sinh bị hư hỏng do nhà thầu vận chuyển nguyên vật liệu xây dựng vào công trường (tại vị trí trụ số 4, ấp Láng Cát, xã Tân Phú Trung, Củ Chi);
3. Một số vị trí đúc cọc và đổ móng trụ, chất thải xây dựng bao gồm vỏ bao xi măng và vỏ can xika chưa thu gom gọn gàng và xử lý theo qui định (tại trụ số 4, ấp Láng cát, huyện Tân Phú Trung; Trụ số 9, ấp Láng Chà, xã Tân Thạnh Đông; trụ số 25, ấp 7, xã Bình Mỹ; trụ số 21, ấp 8, xã Bình Mỹ, huyện Củ Chi, VNECO);
4. Nhà thầu thi công tại móng trụ số 4, ấp Láng Cát, xã Tân Phú Trung, huyện Củ Chi bơm nước từ hồ móng ra ngoài gây bồi lắng và ảnh hưởng môi trường xung quanh (nhà thầu PCC1);



5. Công tác vệ sinh môi trường xung quanh lán trại tạm thời của công nhân tại các trụ xây dựng chưa được sạch sẽ (trụ số 25, trụ số 19, ấp 7, xã Bình Mỹ (PCCI), nhà thầu IEC tại Đức Hòa, Long An);

6. Công tác trang bị và sử dụng bảo hộ lao động của công nhân làm việc tại hiện trường chưa đầy đủ (tất cả các nhà thầu);

7. Công tác chuẩn bị cho cứu thương khi tai nạn lao động xảy ra chưa được chuẩn bị chu đáo (tất cả các nhà thầu).

Ngoài ra, đề nghị các Công ty lưu ý các chất thải nguy hại phát sinh (nếu có) cần phải được thu gom và xử lý theo đúng quy định pháp luật.

Để đáp ứng yêu cầu về công tác an toàn lao động và giảm thiểu tác động đến môi trường trong thời gian thi công, Ban QLDA đề nghị các Công ty khẩn trương khắc phục các thiếu sót trên và thông báo tình hình khắc phục cho Ban QLDA trước ngày 25/10/2014.

Nếu có khó khăn vướng mắc trong quá trình thực hiện, đề nghị các Công ty thông báo kịp thời để Ban QLDA phối hợp giải quyết theo quy định.

Trân trọng.

**Nơi nhận:**

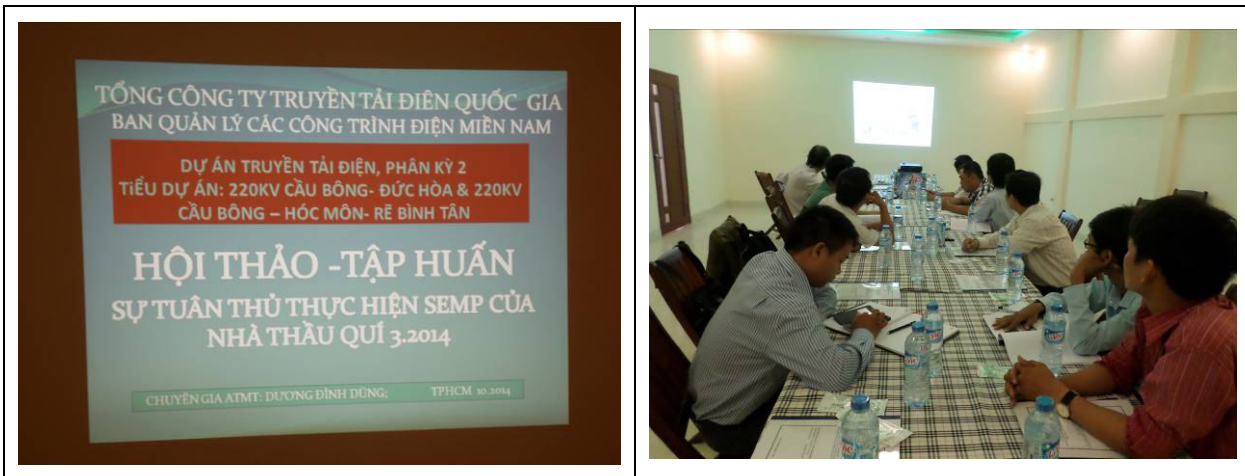
- Như trên;
- Phòng KT “để phối hợp”;
- Lưu TH, ĐB.

KT. GIÁM ĐỐC  
PHÓ GIÁM ĐỐC



Nguyễn Công Toàn

**Appendix 5: Training workshops on the contractor's compliance with the implementation of CEMP and improving awareness on occupational health and safety for workers and communities;**



**Training workshop on contractor's compliance with CEMP**





**Training workshop on health and safety for workers**



**Appendix 6: Results of resolving the environmental issues found in the third quarter of 2014**

Environmental issues	Results of resolving the issues
	
<p>Untidy materials at site narrowed the community road (tower No 20)</p>	<p>The issue was resolved (tower No 20)</p>
	
<p>Road damaged because of heavy transport of contractor (tower No 4)</p>	<p>The damaged road was totally repaired (tower No 4)</p>
	



<p>Nylon waste was not collected and treated as regulated</p>	<p>The waste was collected and treated</p>
	
<p>Cement bags were not collected and treated (Tower No 19)</p>	<p>The ground was cleaned after the cement bags collected (tower No 19)</p>
	
<p>Sedimentation occurred because of pumping water from foundation hole (tower No 4)</p>	<p>Contractor dredged the sedimentation and compensated for the rice loss</p>
	
<p>Nylon waste was not fully collected</p>	<p>The contractor overcome the condition</p>





Waste from workers' camp was not collected and treated



Contractor resolved the issue and the neighboring household has satisfied



Environment was unhygienic at tower No 25



Contractor resolved the issue



Workers cutting iron without protective gloves



Workers used protective tools when working but are not adequate



## Appendix 7: Contractor's good environmental performances at sites



Contractor collected and classified the construction wastes for treatment (tower No 4)



Cement bags were tidily collected at site for reusing and recycling (tower No 4)

Materials were tidily kept at site (tower No 4)



Workers were wearing suitable labor protective tools while erecting towers





## Appendix 8: The environmental issues found in Quarter 4.2014



Cement bags at tower No 13 was not fully collected, reused and recycled



Ground at tower No 11 and 13 was not returned in time for farmers to prepare land for next crop;



Execution of tower No 17 damaged the wall and corridor of Tho Nam Sang Company;





No warning sign installed around the foundation hole of tower 39



No traffic warning sign installed at tower No 17 being excavated nearby Vo Van Bich treet;

**Appendix 9: Letter No 9760 issued by SPPMB on 31/12/2104 requesting the contractors to resolve the environmental issues found in the fourth quarter of 2014**

TỔNG CÔNG TY  
TRUYỀN TẢI ĐIỆN QUỐC GIA  
BAN QUẢN LÝ DỰ ÁN  
CÁC CÔNG TRÌNH ĐIỆN MIỀN NAM

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM  
Độc lập - Tự do - Hạnh phúc

Số: **9 760** /AMN-ĐB  
V/v: Khắc phục các thiếu sót trong  
quá trình thi công đường dây 220kV  
Cầu Bông – Đức Hòa và Cầu Bông -  
Hóc Môn – rẽ Bình Tân.

TP. Hồ Chí Minh, ngày 31 tháng 12 năm 2014

Kính gửi: - Tổng Công ty Cổ phần Xây dựng Điện Việt Nam;  
- Công ty Cổ phần Xây lắp Điện I;  
- Công ty Cổ phần Sông Đà 11;  
- Công ty TNHH MTV Sông Đà 11 – Thăng Long;  
- Công ty Cổ phần lắp máy và Xây dựng Điện.

Đường dây 220kV Cầu Bông – Đức Hòa và Cầu Bông – Hóc Môn – rẽ Bình Tân được đầu tư xây dựng bằng vốn vay của Ngân hàng phát triển châu Á (ADB). Để đảm bảo đáp ứng đầy đủ các yêu cầu của tổ chức này, Ban QLDA đã ký hợp đồng với ông Dương Đình Dũng – chuyên gia Tư vấn an toàn về môi trường cho hai dự án trên. Kết quả giám sát của Tư vấn tại công trường sẽ gửi cho ADB và đây là một trong những điều kiện bắt buộc để giải ngân.

Qua công tác kiểm tra, đánh giá tại hiện trường và rà soát tài liệu dự án đường dây 220kV Cầu Bông – Đức Hòa và Cầu Bông – Hóc Môn – rẽ Bình Tân, Tư vấn an toàn về môi trường đã đề nghị các đơn vị xây lắp khắc phục các thiếu sót trong quá trình thi công theo thư số 0514/DDD-TV và 0614/DDD-TV ngày 30/12/2014. Cụ thể như sau:

1. Nhà thầu IEC cần phải hoàn trả mặt bằng đầy đủ, bao gồm cả lề đường mà nhà thầu sử dụng để đúc cọc móng bị hư hỏng (vị trí trụ 40, tỉnh Long An)
2. Nhà thầu IEC phải hướng dòng nước bom từ móng trụ số 43 (nước có hàm lượng phèn cao) ra phía nương người dân không sử dụng để lắng phèn và tận dụng nước bổ sung cho ruộng lúa của dân đang canh tác;
3. Nhà thầu Sông Đà 11 cần trang bị bảo hộ lao động và yêu cầu công nhân mang khẩu trang khi tham gia trộn bê tông và thực hiện các công việc khác có liên quan;
4. Nhà thầu Sông Đà 11 cần trang bị và nhắc nhở công nhân sử dụng bảo hộ lao động khi lắp ráp trụ điện trên cao bao gồm công nhân hỗ trợ dưới mặt đất;
5. Nhà thầu VNECO cần thu gom vỏ bao xi măng tại vị trí trụ số 13, xã Tân Thạnh Đông để tái sử dụng hoặc bán cho đại lý thu mua phế liệu tái chế;

6. Nhà thầu VNECO hoàn trả mặt bằng tại trụ số 11 và 13, thuộc xã Tân Thạnh Đông kịp thời để người dân chuẩn bị đất gieo lúa vụ Đông – Xuân

7. Nhà thầu VNECO hoàn trả bờ tường và đường hành lang cho Công ty môi trường Thọ Nam Sang ngay sau khi hoàn thành phần móng trụ số 17 ở xã Tân Thạnh Đông;

8. Nhà thầu PCC1 (tại vị trí trụ số 3) và nhà thầu VNECO (tại vị trí số 29) cần phải trang bị dụng cụ chứa rác thải sinh hoạt tại vị trí lán trại tạm thời để thu gom rác và xử lý theo qui định;


9. Nhà thầu VNECO cần phải xin phép đơn vị quản lý giao thông địa phương để dựng biển cảnh báo công trình tại vị trí trụ số 17, giao với đường giao thông Võ Văn Bích, xã Tân Thạnh Đông để phương tiện tham gia giao thông nhận biết, chú ý và giảm tốc độ khi đi qua;

10. Nhà thầu VNECO cần phải tiến hành rào chắn xung quanh hố móng, lắp đèn báo hiệu về ban đêm và biển cảnh báo hố sâu nguy hiểm tại trụ số 39, ấp Tam Thôn 3, xã Thới Tam Thôn, huyện Hóc Môn

Hiện nay, rất nhiều hộ dân bức xúc về các đơn vị xây lắp trong quá trình hoàn trả mặt bằng không như ban đầu, thậm chí làm hư hỏng nhiều hơn. Để tránh việc khiếu nại, khiếu kiện và ngăn cản việc thi công các công việc tiếp theo, Ban QLDA đề nghị các Công ty chấn chỉnh việc hoàn trả mặt bằng sau khi thi công xong các vị trí móng trụ và thực hiện theo đúng cam kết với các hộ dân. Ngoài ra, đề nghị các Công ty lưu ý các chất thải nguy hại phát sinh (nếu có) cần phải được thu gom và xử lý theo đúng quy định pháp luật.

Để đáp ứng yêu cầu về công tác an toàn lao động và giảm thiểu tác động đến môi trường trong thời gian thi công, Ban QLDA đề nghị các Công ty khẩn trương khắc phục các thiếu sót trên và thông báo tình hình khắc phục cho Ban QLDA biết.

Nếu có khó khăn vướng mắc trong quá trình thực hiện, đề nghị các Công ty thông báo kịp thời để Ban QLDA phối hợp giải quyết theo quy định.

Trân trọng. 

**Nơi nhận:**

- Như trên;
- Phòng KT “để phối hợp”;
- Ô. Dương Đình Dũng “để theo dõi”;
- Lưu TH, ĐB.

KT. GIÁM ĐỐC  
PHÓ GIÁM ĐỐC  
  
  
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