Environmental Monitoring Report

Quarterly Report
July to September 2014

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


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NATIONAL POWER TRANSMISSION CORPORATION
SOUTHERN POWER PROJECT MANAGEMENT BOARD

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

220KV CAU BONG - HOC MON - BINH TAN TRANSMISSION LINE &
220KV CAU BONG - DUC HOA TRANSMISSION LINE SUBPROJECT

QUARTERLY INTERNAL REPORT
FOR
ENVIRONMENTAL SAFEGUARD

(JULY TO SEPTEMBER, 2014)

10.2014
NATIONAL POWER TRANSMISSION CORPORATION
SOUTHERN POWER PROJECTS MANAGEMENT BOARD

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220KV CAU BONG - DUC HOA TRANSMISSION LINE SUBPROJECT

QUARTERLY INTERNAL REPORT
FOR
ENVIRONMENTAL SAFEGUARD
(JULY TO SEPTEMBER, 2014)

SOUTHERN POWER PROJECT
MANAGEMENT BOARD
NATIONAL SAFEGUARD POLICY
SPECIALIST FOR ENVIRONMENT
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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 of NPT  Environmental Officer of NPT
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  Rights of Way
RP  Resettlement Plan
SiE  Site Engineers of Contractors
SPPMB  Southern Power Project Management Board
SPPMB EO  Environmental officers of SPPMB
SPPMB SE  Supervision Engineers of SPPMB
USD  United State Dollars
VNECO  Vietnam Power Construction Corporation
EXECUTIVE SUMMARY

The subproject of 220KV Cau Bong – Duc Hoa has a total line of 13.42km long and 43 supporting towers. The line starts from Cu Chi substation and traverses the five communes of Cu Chi district, HCMC and the two communes of Duc Hoa district, Long An province. The subproject of 220KV Cau Bong – Hoc Hon – Binh Tan has an entire line of 15.59km long and 59 supporting towers. The line begins from 110KV Cau Bong substation and goes through the five communes of Cu Chi district, the two communes of Hoc Mon district and the two communes of district 12, HCMC.

The internal monitoring objectives for ES are:

- Monitoring construction of the subprojects in compliance with both policies of ADB and the Government on the ES.
- Monitoring the construction contractors complying with the mitigation measures against the approved EMP and CEMP.
- Recommending measures to improve the effectiveness of mitigating the negative impacts on the environment during the construction phases.
- Identifying the environmental impacts non-determined in the designing stage, based on which solutions for monitoring and mitigating the impacts shall be recommended.

The execution of tower foundations was started on June 10, 2014. The progress of subproject No 3 lot 1: 220KV Cau Bong – Duc Hoa transmission line until end of September has achieved 10% of all works. The progress of subproject No 3 lot 2: 220KV Cau Bong – Hoc Mon – Binh Tan transmission line until end of September has achieved 15% of all works.

In terms of the environmental compliance, result of the internal ES monitoring has shown that the contractors have been in compliance with the ES policies and the mitigation measures, which has resulted in the good performances in terms of the environmental safeguards. Beside the achievements, several environmental issues need to be addressed and will be followed up in the next working period include:

- Contractor gathers its construction materials untidily, which may affect negatively on the community 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);

- The environmental sanitation surrounding the temporary worker camps is unhygienic (for example at the tower No 25 village 7, Binh My commune and contractor IEC in Tan My ward, Duc Hoa commune, Long An province);

- 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 occur;

The recommendations to solve the existing negative environmental issues are:

- Before transporting construction materials to sites, contractors need to prepare a clear ground, keep the materials tidily within the cleared ground, without occupying community roads causing difficulty in traffic.

- The community road damaged due to transporting materials to site, contractors must repair it in time, making sure no effect to activities of the community;

- Contractors must keep cement bags and xika cans tidily at site that will be reasonably recycled or reused; for nylon impossible to be recycled or reused, contractors must collect and dump it at local landfills.

- The contractor has to dredge all sedimentation to fill back the tower foundation after completion of constructing the tower foundation and agree with the land owner for a compensation of loss;

- Contractor needs to keep worker camps in sanitation, provides dust-bin and hygienic toilet for workers at the temporary worker camps.

- Contractors must equip their workers with labor protection equipments and request them to use the protective equipments reasonably before working to reduce a risk of accidents, for example, wearing gloves, protective glasses when welding or cutting iron and wearing masks when mixing concrete at site.

- Contractors have to set up a box of necessary medicines to respond to the first aid in case of accidents occur;

*****
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 two subprojects (i) 220KV Cau Bong – Duc Hoa & 220KV Cau Bong – Hoc Mon – Binh Tan transmission line are invested under the Tranche II with a total budget of around 19.13 millions USD. NPT is the executive agency and SPPMB is the implementing agency for both subprojects.

1.2 Project scale

1.2.1 Subproject of 220KV Cau Bong – Duc Hoa transmission line

The subproject of 220KV Cau Bong – Duc Hoa transmission line is 13.42 km long, which is situated within HCMC and Long An province. The line starts at 220KV Cu Chi substation, then passes through Nhuan Duc, Trung Lap Ha, Phuoc Hiep, Phuoc Thanh and Thai My communes that belong to Cu Chi district and goes through Duc Hoa commune and terminates at Duc Hoa substation located in Tan My ward, Duc Hoa district, Long An province. A general layout is presented in Figure 1, Table 1.

Table 1: The positions of 220KV Cau Bong – Duc Hoa transmission line

<table>
<thead>
<tr>
<th>No</th>
<th>Starting ÷ ending points</th>
<th>Province/city</th>
<th>District</th>
<th>Commune/ward</th>
<th>Lengths (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G3.11-G4.1</td>
<td>HCMC</td>
<td>Cu Chi</td>
<td>Nhuan Duc, Trung Lap Ha</td>
<td>125</td>
</tr>
<tr>
<td>2</td>
<td>G4.1-G4.1A</td>
<td>HCMC</td>
<td></td>
<td>Nhuan Duc</td>
<td>1,163</td>
</tr>
<tr>
<td>3</td>
<td>G4.1A-G4.1B</td>
<td>HCMC</td>
<td></td>
<td>Nhuan Duc</td>
<td>200</td>
</tr>
<tr>
<td>4</td>
<td>G4.1B-G4.1C</td>
<td>HCMC</td>
<td></td>
<td></td>
<td>157</td>
</tr>
<tr>
<td>5</td>
<td>G4.1C-G4.1D</td>
<td>HCMC</td>
<td>Cu Chi</td>
<td>Nhuan Duc, Trung Lap Ha</td>
<td>3559</td>
</tr>
<tr>
<td>6</td>
<td>G4.1D-G4.2</td>
<td>HCMC</td>
<td></td>
<td>Trung Lap Ha</td>
<td>683</td>
</tr>
<tr>
<td>7</td>
<td>G4.2-G4.3</td>
<td>HCMC</td>
<td></td>
<td>Phuoc Hiep</td>
<td>1,760</td>
</tr>
<tr>
<td>8</td>
<td>G4.3-G4.4</td>
<td>HCMC</td>
<td></td>
<td>Phuoc Thanh</td>
<td>444</td>
</tr>
<tr>
<td>9</td>
<td>G4.4-G4.5</td>
<td>HCMC</td>
<td></td>
<td></td>
<td>565</td>
</tr>
<tr>
<td>10</td>
<td>G4.5-G4.6</td>
<td>HCMC</td>
<td></td>
<td>Thai My</td>
<td>1,145</td>
</tr>
<tr>
<td>11</td>
<td>G4.6-G4.7</td>
<td>HCMC</td>
<td></td>
<td></td>
<td>323</td>
</tr>
<tr>
<td>12</td>
<td>G4.7-G4.8</td>
<td>LONG AN</td>
<td>Duc Hoa</td>
<td>Cau Bong,</td>
<td>2,160</td>
</tr>
</tbody>
</table>
The line consists of the 43 supporting towers in total. The line is contained within 22m RoW, 11m from either side of the centre of line.

The land affected by the project includes the land required for the rights of way (RoW) and for construction of the power tower foundations. According to the updated RP approved by ADB in 2014, a total of affected land are of 236,232 m², of which 242,402.1 m² shall be restricted for land use activities and 13,830.7 m² for the permanent use of 43 suspension and tension towers. A total of 290 affected household (AHs) and 02 organizations were identified to be affected by the project and their properties include (i) 16 houses due to height limit

**Figure 1: Layout of 220KV Cau Bong – Duc Hoa transmission line**

Source: Feasibility study report, PECC-2, 2012
under the RoW, (ii) 802.6 m² of other structures; and (ii) 353,482 trees due to the clearing of RoWs.

1.2.2 Subproject of 220KV Cau Bong - Hoc Mon - Binh Tan transmission line

The subproject of 220KV Cau Bong - Hoc Mon - Binh Tan transmission line is 15.94 km long, which passes through the three districts of HCMC. The line starts at 110kV Cau Bong substation, then traverses Tan Phu Trung, Tan Thanh Dong, Binh My communes of Cu Chi district; Dong Thanh, Thoi Tam Thon commune of Hoc Mon district and Tan Chanh Hiep and Tan Thoi Hiep, District 12. The areas the transmission line passing through and its layout are described at Table 2, Figure 2.

**Table 2: The positions of 220kV Cau Bong – Hoc Mon - Binh Tan power line**

<table>
<thead>
<tr>
<th>No</th>
<th>Starting + ending points</th>
<th>Province/ city</th>
<th>District</th>
<th>Commune/ wards</th>
<th>Length (m)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>DD2-G2.1A</td>
<td>HCMC</td>
<td>Cu Chi</td>
<td>Tan PhuTrung</td>
<td>464</td>
</tr>
<tr>
<td>2</td>
<td>G2.1A-G2.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>G2.1-G2.2</td>
<td></td>
<td></td>
<td>Tan Thanh Dong</td>
<td>1,456</td>
</tr>
<tr>
<td>4</td>
<td>G2.2-G2.3</td>
<td></td>
<td></td>
<td></td>
<td>2,549</td>
</tr>
<tr>
<td>5</td>
<td>G2.3-G2.4</td>
<td></td>
<td></td>
<td>Binh My</td>
<td>1,330</td>
</tr>
<tr>
<td>6</td>
<td>G2.4-G2.5</td>
<td></td>
<td></td>
<td></td>
<td>1,077</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>271</td>
</tr>
</tbody>
</table>

I Total of new construction line

<table>
<thead>
<tr>
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<th>Province/ city</th>
<th>District</th>
<th>Commune/ wards</th>
<th>Length (m)</th>
</tr>
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<tbody>
<tr>
<td>7</td>
<td>G2.5-G2.6</td>
<td>HCMC</td>
<td>Hoc Mon</td>
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<td>7,147</td>
</tr>
<tr>
<td>8</td>
<td>G2.6-G2.7</td>
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<td>515</td>
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<tr>
<td>9</td>
<td>G2.7-G2.8</td>
<td></td>
<td></td>
<td>Dong Thanh</td>
<td>826</td>
</tr>
<tr>
<td>10</td>
<td>G2.8-G2.9</td>
<td></td>
<td></td>
<td>Thoi Tam Thon</td>
<td>559</td>
</tr>
<tr>
<td>11</td>
<td>G2.9-G2.10</td>
<td></td>
<td></td>
<td></td>
<td>781</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>870</td>
</tr>
<tr>
<td>12</td>
<td>G2.10-G2.11</td>
<td>HCMC</td>
<td>12</td>
<td>Tan Chanh Hiep</td>
<td>791</td>
</tr>
<tr>
<td>13</td>
<td>G2.11-G2.12</td>
<td></td>
<td></td>
<td></td>
<td>707</td>
</tr>
<tr>
<td>14</td>
<td>G2.12-G2.13</td>
<td></td>
<td></td>
<td></td>
<td>567</td>
</tr>
<tr>
<td>15</td>
<td>G2.13-G2.14</td>
<td></td>
<td></td>
<td></td>
<td>748</td>
</tr>
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<td>16</td>
<td>G2.14-G2.15</td>
<td></td>
<td></td>
<td></td>
<td>819</td>
</tr>
<tr>
<td>17</td>
<td>G2.15-G2.16</td>
<td></td>
<td></td>
<td></td>
<td>150</td>
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<tr>
<td>18</td>
<td>G2.16-DC2</td>
<td></td>
<td></td>
<td>Tan Thoi Hiep</td>
<td>308</td>
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II Upgrading line

<table>
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<th>Commune/ wards</th>
<th>Length (m)</th>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>7,641</td>
</tr>
<tr>
<td></td>
<td>Total of new construction and upgrading line</td>
<td></td>
<td></td>
<td></td>
<td>14,788</td>
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<table>
<thead>
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<th>No</th>
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<th>Province/ city</th>
<th>District</th>
<th>Commune/ wards</th>
<th>Length (m)</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>Connect to Cau Bong 220kV</td>
<td>HCMC</td>
<td>Cu Chi</td>
<td>Tan Phu Trung</td>
<td>314</td>
</tr>
<tr>
<td>2</td>
<td>Connect to Cau Bong 110kV</td>
<td></td>
<td></td>
<td></td>
<td>619</td>
</tr>
<tr>
<td>3</td>
<td>Hoc Mon 110/220 kV</td>
<td></td>
<td>District 12</td>
<td>Tan Thoi Hiep</td>
<td>219</td>
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III Total of connection to substations

<table>
<thead>
<tr>
<th>No</th>
<th>Starting + ending points</th>
<th>Province/ city</th>
<th>District</th>
<th>Commune/ wards</th>
<th>Length (m)</th>
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<td></td>
<td></td>
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<td>1,152</td>
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IV. Total I, II, III

<table>
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<th>Length (m)</th>
</tr>
</thead>
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<tr>
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<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>15,940</td>
</tr>
</tbody>
</table>

Source: Feasibility report PECC-2, 2012
The transmission line has 59 tension and suspension towers. The line is contained within 22m RoW, 11m from either side of the centre of line.

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 RP for the project approved by ADB in June 2012, a total of affected land are of 352,928 m², of which 327,381.5 m² shall be restricted for land use activities and 25,546.5 m² for the permanent use of 59 suspension and tension towers. A total of 260 affected household (AHs) were identified during the inventory of losses (IOL) who own the following affected properties: (i) 81 houses due to height limit under the RoW, (ii) 21 other structures.

1.3 The objectives of internal environmental monitoring

The objectives of internal environmental monitoring are as follows:

- Monitoring the environmental compliance with both policies of ADB and the Government of subprojects’ construction activities
- Monitoring the construction contractors to comply with the mitigation measures in accordance with the approved EMP and CEMP.
- Recommending measures to improve the effectiveness of mitigating the environmental negative impacts during the subprojects’ construction period.
- Identifying the environmental impacts non-determined in the designing stage, based on which solutions for monitoring and mitigating the impacts shall be recommended.

2. INCORPORATION OF ENVIRONMENTAL REQUIREMENTS INTO PROJECT CONTRACTUAL ARRANGEMENTS

2.1. Environmental law, regulation and standards

- ADB’s environmental safeguard put in effect on 1/1/2010;
- Law on Environment, 2005;
- Circular No. 22/2010/TT-BXD regulating on labor safety in executing constructions issued by Ministry of Construction on December 03, 2010;
- Decree No.14/2014/NĐ-CP dated February 26, 2014 regulating detail 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 EMP and EMoP concurred by ADB in December 2012 (IEE, 12/2012), a layout on the internal environmental monitoring is presented in Figure 3
2.2.2 Duties of the related stakeholders in the institution

- **SPPMB**
  - SPPMB 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 officers (EOs) from its Resettlement Division to be responsible for implementing and monitoring EMP during the project phases. Under the supports from IES, EO of NPT and NSSE, the SPPMB SEs and EOs will be in charge of the following duties:

  **SPPMB ENVIRONMENTAL OFFICERS (EOs)**
  - Supporting SPPMB to approve the CEMPs
  - Introducing the contractors to sites;
  - 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 conduct quarterly workshops on the compliance with the ES policies of the project and the improvement awareness of the project staff and contractors on occupational and communal health and safety.
  - Preparing monthly, quarterly and mid-year reports on coordination implementing the EMP and EMoP to be submitted to ADB, NPT;

  **SPPMB SUPERVISION ENGINEERS (SEs)**
  - 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**
  The construction contractors have the following duties:
  - Mobilizing its human resources include (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 SPPMB 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, health;
  - Preparing monthly compliance report submitted to SPPMB.

- **NATIONAL SAFEGUARD SPECIALIST FOR ENVIRONMENT (NSSE)**
  The NSSE has the following duties:
- Supporting SPPMB in compliance with the ES policies and in coordinating implementing the EMP and EMoP for the project.
- Conducting capacity building 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 quarter and mid-year internal monitoring reports on environment;

2.2.3 Safeguard implementation procedures

A system of internal monitoring arrangement established by SPPMB was discussed to reach a consensus with the contractors at a workshop conducted on July 08, 2014.

In terms of personnel organization, SPPMB assigned its SEs who have attached to the Technical Department and its EOs from the Compensation Department. The Associations of contractors also assigned their staff of SiE, ESHO and CLO in charge of the ES at site daily and reporting on ES monthly to SPPMB. All ES staff from SPPMB and contractors were invited to participate in a training workshop on the ES policies conducted on August 14-15, 2014 by the ADB’s environmental specialist. The templates of monthly compliance report of contractors and the templates of quarter and mid-year internal monitoring reports on environment of SPPMB have been agreed to be applied since then.

In terms of report information, based on monthly reports prepared by contractors and observations from a monthly site visit and results of quarterly workshop on ES conducted by SPPMB and NSSE at site, all shortcomings identified at site shall be planned to overcome immediately by the related stakeholders while improving awareness on occupational and community health and safety for the project staff and contractors. SPPMB shall also assemble and analyze the information to formulate the month, quarter and mid-year reports which are submitted to NPT and ADB for consideration.

2.3 The 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 3

Table 3: Summary of the environmental requirements in EMP/IEE and in B&C documents

<table>
<thead>
<tr>
<th>Environmental issues</th>
<th>Environmental requirements in the EMP/IEE</th>
<th>In B&amp;C documents</th>
</tr>
</thead>
</table>
| 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 | All environmental requirements in the EMP/IEE have been integrated into the B&C documents and the CEMP |
| 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 useable trees within the RoW and arrange for these to be approved for removal.  
- Limit area to be cleared  
- Identify areas with any significant vegetation.  
- Areas to be defined by a clear boundary.  
- Clearing boundaries shown to machinery operators.  
- 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. |
| Preparation of site: excavation, removal and disposal of unusable (incompetent) materials | - Limit area to be excavated.  
- Topsoil to be removed and stored for re-use.  
- Excavated incompetent 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 particularly noisy activities are required 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; |
<p>| Waste water to construction site | - Not allow to discharge waste water directly to water body surrounding |</p>
<table>
<thead>
<tr>
<th><strong>Prevention of soil erosion on construction site.</strong></th>
<th><strong>Disposal of site waste</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Apply soil conservation and erosion protection technologies.</td>
<td>- All waste materials to be collected and sorted; (i). those that can be recycled and</td>
</tr>
<tr>
<td>- Avoid operating machinery in adverse ground conditions.</td>
<td>(ii) those that need to go to an approved landfill site for disposal;</td>
</tr>
<tr>
<td>- Protect and vegetate newly excavated areas as soon as possible</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Storage and handling of: fuel and lubricants</strong></th>
<th><strong>Community Safety from increased vehicle movements</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- All fuel storage areas to be security fenced and provided with oil and water separators. Fuel hoses and shut off valve to be locked.</td>
<td>- All vehicles to be properly maintained and operated in accordance with road laws.</td>
</tr>
<tr>
<td>- Fuel should be stored in properly sealed containers. Regularly check its locks to prevent fuel from running over to environment.</td>
<td>- All loads to be properly secured and fugitive loads to be covered.</td>
</tr>
<tr>
<td>- All refueling to be done at least 20 m away from waterways by trained personnel</td>
<td>- Drivers to be fined if ignore safety requirements.</td>
</tr>
<tr>
<td>- All waste oil and oil filters to be collected and if possible recycled, otherwise to be disposed of to landfills</td>
<td></td>
</tr>
<tr>
<td>- The contractor is to train refueling personnel in these procedures. The contractor is to have developed an accidental spill handling action plan</td>
<td></td>
</tr>
</tbody>
</table>

- 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;
- Not allow to drop oil and fuel from machinery to site;
- Prevention of soil erosion on construction site.
- Disposal of site waste
- 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;
- All fuel storage areas to be security 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 is to train refueling personnel in these procedures. The contractor is to have developed an accidental spill handling action plan
- All vehicles to be properly maintained and operated in accordance with road laws.
- All loads to be properly secured and fugitive loads to be covered.
- Drivers to be fined if ignore safety requirements.
| Workplace health and safety | - Contractor to abide by: Vietnamese Labor Code as amended 2002. Workers to be provided with safe working environment including:  
- Erect warning signs and barriers around work areas  
- No drugs or alcohol allowed on-site  
- Noise and dust to be controlled.  
- All workers provided with safety equipment appropriate for the task in which they are employed.  
- To be supplied on-site for workers:  
  - Potable water, chemical toilet, changing place with clothes storage, and washing and showering facilities.  
  - Work Statements prepared for each activity  
  - Prior to entering site for first time workers to be inducted to site and site hazards explained together with explanation of work site safety procedures.  
  - Medical and first aid facilities provided together with a person qualified in first aid. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chance discovery of archaeological and cultural sites</td>
<td>- 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.</td>
</tr>
</tbody>
</table>
| Clearance and rehabilitation of Construction sites and removal of contractor’s facilities. | - All solid waste to be removed from sites and disposed in approved landfills.  
- All contaminated soil to be removed.  
- All sites to be rehabilitated and restored to original condition.  
- Drainage to be re-established.  
- To 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 to be inducted to site with an explanation of the site hazards |
that may be experienced
- Promulgate, educate workers on the social problems. Implement measures of preventing HIV/AIDS;
- Provide life condition for workers in camps in terms of sanitation, safe water and cooking;
- Worker’s camps shall be constructed in a high places and use more local workers 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;

3. PROGRESS ON PROJECT IMPLEMENTATION
The contract of constructing the 220KV Cau Bong – Duc Hoa transmission line was signed on 19/12/2013 between SPPMB and the Association of Song Da 11, Song Da 11 Thang Long & IEC, of which Song Da 11 is head of the Association.

The contract of constructing the 220KV Cau Bong – Hoc Mon – Binh Tan transmission line was signed on 14/02/2014 between SPPMB and the Association of PCC1 and VNECO, of which PCC1 is head of the Association.

Because of pressure of the project construction progress, the contractors executed the construction of tower foundations that are located in paddy field right after harvesting time with an aim of reducing the negative impacts on the next crop of villagers. The execution of tower foundations was started on June 10, 2014. Before that, the affected land was negotiated and committed to being compensated by contractors under the witness of its CPC, which has been agreed by the land owners. The progress of executing the two subprojects until September 30, 2014 is summarized in Table 4

**Table 4: Progress on the subprojects’ execution**

<table>
<thead>
<tr>
<th>Contractors</th>
<th>Construction packages</th>
<th>Construction progress on each item</th>
<th>Progress against all works (% of completion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Association of Song Da 11, Song Da 11</td>
<td>No 3 lot 1: 220KV Cau Bong – Duc</td>
<td>Tower foundations</td>
<td>30</td>
</tr>
</tbody>
</table>
4. ENVIRONMENT COMPLIANCE MONITORING

4.1 Environment compliance at construction site

In the quarter 3, 2014, contractors constructed the tower foundations at the positions where the contractors have agreed with the land owners on compensation and land clearance. Most of the towers being executed are located in the paddy field or grass field, which is far from the residential areas. Contractors have not stored hazard substances such as oil, lubricants at the construction sites.

The main environmental issues at sites need to be concerned include:

- Dust generates mainly during the process of mixing cement to concrete tower foundations and transporting construction materials to sites;
- Noise and vibration generate mainly during the time of hammering piles and operating machines;
- Preparing temporary roads for transporting, cleared grounds for storing construction materials and for preparing piles;
- Management of construction wastes;
- Status of safety on construction sites (sign boards, fences…)
- Landslides, sedimentations and blockage of water flows;
- Natural forest, biodiversity protection;
- Returning ground to its original condition after completion of tower foundations;

Most of the contractors have complied with the ES policies and implemented the environmental mitigation measures. The negative impacts and the mitigation measures are summarized in Table 5.

**Table 5: Summary of the adverse impacts and applied mitigation measures at the construction sites**

<table>
<thead>
<tr>
<th>Position/time</th>
<th>Adverse impacts</th>
<th>Implemented mitigation measures</th>
<th>Implementing agency</th>
<th>Recommended activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>All executing tower</td>
<td>Dust generated from activity of mixing concrete and transporting</td>
<td>Trucks transporting construction</td>
<td>Contractors</td>
<td>Workers should wear masks</td>
</tr>
<tr>
<td>foundations and during the period of mixing concrete and transporting materials;</td>
<td>construction materials will affect air quality of workplaces and surrounding community;</td>
<td>materials such as sand, soil, stones were carefully covered to avoid generating dust;</td>
<td>during the time of mixing concrete;</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>All executing tower foundations and during operation of hammering piles and machines;</td>
<td>Noise generated from hammering piles and operating machines will affect workers at workplaces and surrounding community;</td>
<td>Operating machines are technically regular examined; No construction activities conducted at night times at the positions that can affect residential areas;</td>
<td>Contractors</td>
<td></td>
</tr>
<tr>
<td>Tower foundation execution and transporting materials to site</td>
<td>Damaging banks of paddy field; Preparing temporary roads blocks flow of water; Use private land without permission; Damaging community roads;</td>
<td>Banks of paddy fields were repaired after completion; Conduits in canals was put before making temporary roads on; An agreement on borrowing/ renting land for storing materials has been conducted.</td>
<td>Contractors</td>
<td></td>
</tr>
<tr>
<td>Positions of tower construction and time of foundation excavation</td>
<td>Excavation of foundation may cause landslides and sedimentation surrounding area;</td>
<td>Build technical piles against landslides. Turbidity of water was being reduced before pumping it out.</td>
<td>Contractors</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dredging sedimentation to restore the water bodies to its original condition.</td>
<td></td>
</tr>
</tbody>
</table>
Have an agreement with the land owner for compensation of loss;

<table>
<thead>
<tr>
<th>Positions of tower foundation construction</th>
<th>Solid wastes such as cement bags, xika cans and nylon not perfectly managed, recycled and reused;</th>
<th>Cement bags and xika cans are managed but not tidy enough and not reasonably recycled and reused</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid wastes such as cement bags and xika cans must be tidily kept, recycled and reused;</td>
<td>Nylon wastes could not be reused or recycled must be dumped in local landfill;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4.2 Compliance on ES in safety and health for workers and affected communities

In the stage of executing tower foundations, which requires simple works, contractors mainly mobilized local laborers. Worker camps serve as a temporary place for workers staying at noon time and for protecting materials at night time only. All contractors have their office located close to the sites. Activities of ensuring labor safety and community health are concerned by SPPMB and contractors. The monitoring indicators related to aspects of labor safety and community health are as follows:

- 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 during operating machines at sites;
- Preparing for first aid;
- Educating workers on transmission of social diseases such as HIV/AIDS;
- Transporting safety and community rest;
- All negative impacts and mitigation measures for occupational and communal health and safety are summarized in Table 6.
### Table 6: Summary of adverse impacts and mitigation measures for labor safety and community health

<table>
<thead>
<tr>
<th>Position/time</th>
<th>Adverse impacts</th>
<th>Implemented mitigation measures</th>
<th>Implementing agency</th>
<th>Recommended activities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At the tower No 4, 9, 25 of contractor PCC1; At the tower No 28 of contractor VNECO; At tower No 41 of contractor IEC</td>
<td>Domestic wastes not yet carefully collected will affect workers’ health</td>
<td>Contractor</td>
<td>Keep worker’s camps in sanitation and provide dust bins to the camps for collecting solid wastes daily;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker’s camps are located at high and ventilated places and have hygienic toilets.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All workplaces</td>
<td>Workplace accidents and health of workers; loss of productivity Accidents to surrounding communities</td>
<td>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; Construction site can only be accessed with permission of Contractors.</td>
<td>Contractor</td>
<td>Providing workers with adequacy of laborer’s protective equipment; Providing the worker’s camps with a box of necessary medicines for first aid;</td>
</tr>
<tr>
<td>All roads used for transporting materials to sites</td>
<td>Accidents to surrounding communities from vehicles</td>
<td>All vehicles to be properly maintained and operated in accordance with road laws. All loads to be properly secured and fugitive loads</td>
<td>Contractor</td>
<td></td>
</tr>
</tbody>
</table>
220 KV Cau Bong – Duc Hoa & 220KV Cau Bong – Hoc Mon – Binh Tan Transmission line Subprojects
Quarter 3.2014 Internal monitoring report on Environmental safeguard

<table>
<thead>
<tr>
<th>Villages covered.</th>
<th>Drivers are fined if ignore safety requirements.</th>
<th>Contractors, SE and EO</th>
</tr>
</thead>
<tbody>
<tr>
<td>All workplaces and worker’s camps</td>
<td>Loss of cultural value; Disturbance to forest, wildlife; Social unrest;</td>
<td>Chance discovery notified to local functioning agencies for resolving Educating workers on social transmission diseases HIV/AIDS; Registering temporary residence for workers with local authorities; No hunting wild animals and protecting forest.</td>
</tr>
</tbody>
</table>

5. PROGRESS/ RESULTS ON OVERCOMING THE SHORTCOMMINGS IDENTIFIED IN THE PREVIOUS REPORT

For the two subprojects 220KV Cau Bong – Duc Hoa and 220KV Cau Bong – Hoc Mon – Binh Tan transmission line, contractors started executing in the quarter 3.2014, therefore no shortcomings related to environmental performances at site identified in the previous report to be reviewed on the progress on overcome that in the quarter 3.2014 internal report.

6. SUMMARY ON KEY ENVIRONMENTAL ISSUES NEED TO BE RESOLVED

6.1. Identified key environmental issues

6.1.1 Environmental issues at site

- A village road at No.8 villages, Binh My commune, Cu Chi district was narrowed because the contractor gathered the construction materials to the tower No.20;
- A commune road at Lang Cat village, Tan Phu Trung commune, Cu Chi district was damaged due to transporting materials to construct the tower foundation No 4;
- Nylon used for bottom line for preparing piles at the workplace of tower No 4, Lang Cat village, Tan Phu Trung commune, Cu Chi district have not yet carefully collected and treated;
- Cement bags at the workplace for construction the tower foundation No 21 at village 8, Binh My commune, Cu Chi district have not yet carefully collected and treated;
- Sedimentation occurred when the contractor pumping water from a dug foundation to surrounding paddy field at the tower No 4, Lang Cat village, Tan Phu Trung commune, Cu Chi district.
6.1.2. Mitigation measures addressing these issues

- Before gathering materials to sites, the contractor needs to prepare a cleared ground and arranged the materials within the cleared ground tidily, without narrowing the village road and affect community traffic;
- The community road was damaged due to transporting materials to site, the contractor needs to repair it in time to ensure no affect to the community traffic;
- The contractors must collect all cement bags and xika cans to be recycled and reused reasonably; for the nylon unable to be recycled or reused, the contractors have to remove it to local dumping site;
- The contractor must dredge the sedimentation to fill back the tower foundation after completion of constructing the tower foundation and make an agreement on compensation of loss with the land owner;

6.2 Environmental issues in safety and healthy for workers and affected communities

6.2.1 Identified environmental issues

- Solid waste surrounding the worker’s camp at the tower No. 19 and No.25 at the No.7 village, Binh My commune, Cu Chi district was not collected and treated in accordance with its commitment.
- The workers preparing iron and welding at workplace of the tower No 21 – Binh My commune, Cu Chi district did not wear gloves and protective glasses;

6.2.2 Mitigation measures addressing these issues

- The contractors have to equip the worker’s camps with dustbins to store the solid waste and treat it in accordance with the commitment.
- The contractors have to provide their workers with the adequacy of laborer’s protective equipment, making sure that those who are welding and cutting iron wear the protective gloves and glasses; the workers mixing concrete have protective gloves and masks and the workers working with cranes, excavators have protective caps;
- A box of necessary medicines for the first aid needs to be set up at workplaces

A summary of the main negative impacts and the mitigation measures need to be implemented is presented in Table 7.

Table 7: Main environmental issues and mitigation measures need to be implemented

<table>
<thead>
<tr>
<th>No</th>
<th>Main environmental issues</th>
<th>Mitigation measures</th>
<th>Implementing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>At construction sites</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Southern power project management board
<table>
<thead>
<tr>
<th></th>
<th>Construction materials stored at site narrowing the village roads;</th>
<th>Construction materials must be tidily stored without affecting negatively on the village traffic;</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Construction wastes managed imperfectly at sites</td>
<td>All cement bags, xika cans at sites must be daily collected, recycled and reused reasonably; Nylon used for lining bottom to prepare piles need to be collected and dumped at local landfills after completion;</td>
<td>Contractors</td>
</tr>
<tr>
<td>3</td>
<td>Community roads damaged because of transporting construction materials to sites</td>
<td>Community roads damaged due to transporting materials must be in time repaired for the affected communities;</td>
<td>Contractors</td>
</tr>
<tr>
<td>4</td>
<td>Status of sedimentation occurred at the surrounding paddy field because of pumping directly the turbidity water from foundation holes into the field.</td>
<td>The contractor has to dredge the sedimentation to fill back the tower foundation after completion and agree with the land owner on compensation of loss;</td>
<td>Contractor</td>
</tr>
</tbody>
</table>

**II Safety and health of workers and communities**

<table>
<thead>
<tr>
<th></th>
<th>The temporary worker camps are imperfectly managed their wastes;</th>
<th>The temporary worker camps must be provided with dust bins and hygienic toilets. The wastes should be perfectly managed.</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Workers did not use the labor protection equipment adequately when working</td>
<td>Workers must be provided with the adequacy of labor protective equipment and requested to use the equipment reasonably when working to reduce a risk of accidents. For example: Those operate welding machines and cutting iron need to wear protective gloves and glasses;</td>
<td>Contractors</td>
</tr>
</tbody>
</table>
Workers who work with cranes and excavators need to wear protective caps;
Workers who are mixing concrete need to wear masks;

<table>
<thead>
<tr>
<th></th>
<th>Contractors did not prepare well for responding to accidents at sites;</th>
<th>A box of necessary medicines for the first aid needs to be set up at workplaces</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. CONCLUSION AND RECOMMENDATIONS

7.1 Conclusion

The contractors started the execution on June 10, 2014. The result of internal ES monitoring has shown that the contractors have been in compliance with the ES policies and the mitigation measures, which has resulted in the good performances in terms of the environmental safeguards. Beside the achievements, several environmental issues need to be addressed in the next working period include:

- Contractor gathers its construction materials untidily at site, which may affect negatively on the community 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 materials to the site.
- In several tower foundations, contractors managed its construction wastes such as cement bags and xika cans disorderly at site (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);
- The environmental sanitation surrounding the temporary worker camps is unhygienic (for example at the tower No 25 village 7, Binh My commune and contractor IEC in Tan My ward, Duc Hoa commune, Long An province);
- Most of the workers did not use adequately the labor protective equipment when working, for example the welders and iron cutters operating without protective glasses gloves;
Most of the contractors have not prepared well for responding to the first aid in case of accidents occur;

### 7.2 Recommendations

- Before transporting construction materials to sites, contractors need to prepare a clear ground, keep the materials tidily within the cleared ground, without occupying community roads causing difficulty in traffic.
- The community road damaged due to transporting materials to site, contractors must repair it in time, making sure no effect to activities of the community;
- Contractors must keep cement bags and xika cans tidily at site that will be reasonably recycled or reused; for nylon impossible to be recycled or reused, contractors must collect and dump it at local landfills.
- The contractor has to dredge all sedimentation to fill back the tower foundation after completion of constructing the tower foundation and agree with the land owner for a compensation of loss;
- Contractor needs to keep worker camps in sanitation, provides dust-bin and hygienic toilet for workers at the temporary worker camps.
- Contractors must equip their workers with labor protection equipment and request them to use the protective equipment reasonably before working to reduce a risk of accidents, for example, wearing gloves, protective glasses when welding or cutting iron and wearing masks when mixing concrete at site.
- Contractors have to set up a box of necessary medicines at site to respond to the first aid in case of accidents occur;

*****
APPENDIX

Lists of the assigned staff of contractors in charge of ES

<table>
<thead>
<tr>
<th>STT</th>
<th>Họ và Tên</th>
<th>Phân công</th>
<th>Ghi chú</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Đào Minh Hiền</td>
<td>Chuyên viên liên lạc công đồng (CLO)</td>
<td>0983139417 <a href="mailto:Minhhiem11.2@gmail.com">Minhhiem11.2@gmail.com</a></td>
</tr>
<tr>
<td>2</td>
<td>Vượng Trí Tuấn</td>
<td>Kỹ sư hiện trường (SE)</td>
<td>0972083338 <a href="mailto:Mr.nuan2409@gmail.com">Mr.nuan2409@gmail.com</a></td>
</tr>
<tr>
<td>3</td>
<td>Nguyễn Duy Bình</td>
<td>Phu trách an toàn sức khỏe và môi trường (ESHO)</td>
<td>0978173463 <a href="mailto:Duybing70x1@gmail.com">Duybing70x1@gmail.com</a></td>
</tr>
</tbody>
</table>

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

Nơi nhận:
- Như trên.
- KT-CG, TCHC.
- BDH

ĐẠI DIỆN NHÀ THÀNH
(kiểm dân dự án)

Nguyễn Văn Bằng
220 KV Cau Bong – Duc Hoa & 220KV Cau Bong – Hoc Mon – Binh Tan Transmission line Subprojects
Quarter 3.2014 Internal monitoring report on Environmental safeguard

Association of PCC1 and VNECO;
LIÊN DANH NHÀ THẦU
PCC1 & VNECO

Số: 248 /CV-PCC-KTCN
V/v Nhận sự thực hiện kế hoạch quản lý môi trường gió thuôc số 3 - lô 2, đường dây 220kV Cau Bong - Hoc Mon - re Binh Tan và một số ngành lỏ.

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

Căn cứ Hợp đồng số: 040/2014/HĐXL-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 Cơ phần Xây lắp Điện 1 & Tổng Công ty Cơ phần Xây dựng Điện Việt Nam về việc “Xây lập đường dây và ngăn lòng” dự án “Đường dây 220kV Cau Bong - Hoc Mon - re Binh Tan”;

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 DZ 220kV Cau Bong - Duc Hoa và DZ 220kV Cau Bong - Hoc Mon - re Binh Tan;

Căn cứ các danh mục tài liệu của Tư vấn cần nhận 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:

<table>
<thead>
<tr>
<th>Stt</th>
<th>Họ và tên</th>
<th>Phân công</th>
<th>Ghi chú</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nguyễn Duy Chung</td>
<td>Giám sát hiện trường (SE).</td>
<td>0917224329 <a href="mailto:Chungnd@pcc1.vn">Chungnd@pcc1.vn</a></td>
</tr>
<tr>
<td>2</td>
<td>Nguyễn Văn Thành</td>
<td>Chuyên viên liên lạc công động (CLO).</td>
<td>0913042654 <a href="mailto:Thinhnv@pcc1.com.vn">Thinhnv@pcc1.com.vn</a></td>
</tr>
<tr>
<td>3</td>
<td>Nguyễn Quang Vinh</td>
<td>Phu trách an toàn sức khỏe và môi trường (ESHO).</td>
<td>0967055665 <a href="mailto:Vinhpcc1@gmail.com">Vinhpcc1@gmail.com</a></td>
</tr>
<tr>
<td>4</td>
<td>Nguyễn Minh Hải</td>
<td></td>
<td>0918877155 <a href="mailto:Haiinh1903@yahoo.com.vn">Haiinh1903@yahoo.com.vn</a></td>
</tr>
</tbody>
</table>

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

Trân trọng cảm ơn!

Nơi nhận:
- Như trên;
- VNECO (để p/hictory);
- PCC1-MM;
- Lưu Ban CHQ.

TỔNG GIÁM ĐỐC

[Signature]

[Place and Date]

Southern power project management board

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Kính gửi: Ban QLDA Các Công Trình Điện Miền Nam

Can cứ hợp đồng xây dựng số 42/HĐXL-SPPMB-SD11-SD11TL-IEC/PM2 ngày 19/12/2013 giữa Ban quản lý dự án các công trình điện miền Nam (Ban AMN) và liên danh Công ty CP Sông Đà 11 – Công ty Cổ Phần Sông Đà 11 Thăng Long – Công ty Cổ Phần Lập máy & xây dựng điện về việc "Xây lắp đường dây điện ở zam Đường dây 220kV Cau Bong – Duc Hoa".

Can cứ giấy ủy quyền số 406/UQ-SD11-KTI1 ngày 25 tháng 12 năm 2013 giữa Công ty Cổ Phần Sông Đà 11 và Chi nhánh Công ty Cổ Phần Sông Đà 11 tại miền Nam.

Can cứ công văn 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 DZ 220kV Cau Bong - Duc Hoa và DZ 220kV Cau Bong - Hoa Mein - re Binh tan;

Chi nhánh Công ty Cổ phần Sông Đà 11 tại Miền Nam 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:

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Nguyễn Việt Dung</td>
<td>Chuyên viên liên lạc công động (CLO)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hà Thành Luân</td>
<td>Kỹ sư hiện trường (SF)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Nguyễn Văn Giang</td>
<td>Phu trách an toàn sức khỏe và môi trường (ESH0)</td>
<td></td>
</tr>
</tbody>
</table>

Rất mong nhận được sự quan tâm phối hợp của quý Ban

Trân trọng,

[Signature]

Ghi chú:
- Như kính gửi
- Lưu EKT-CG, BT-C-HC

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Southern power project management board
220 KV Cau Bong – Duc Hoa & 220KV Cau Bong – Hoc Mon – Binh Tan Transmission line Subprojects
Quarter 3.2014 Internal monitoring report on Environmental safeguard

TỔNG CỘNG TY CỔ PHẦN
XÂY DỰNG ĐIỆN VIỆT NAM
Số: CV/VNECO - KTVT

V/v: Nhân sự thực hiện kế hoạch quản lý môi trường dự án Dự án số 3-Mái 2, đường dây 220kV Cầu Bống – Học Môn – rẽ Bình Tân

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

Liên doanh nhà đầu tư Công ty cổ phần Xây lắp điện 1 và Tổng công ty cổ phần xây dựng điện Việt Nam đảm nhận thi công xây lắp đường dây 220kV Cầu Bống – Học Môn – rẽ Bình Tân”.

Căn cứ công văn số 4165/AMN-DB 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 DZ 220kV Cầu Bống – Học 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:

<table>
<thead>
<tr>
<th>STT</th>
<th>Họ và tên</th>
<th>Phân công</th>
<th>Ghi chú</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nguyễn Đức Hiếu</td>
<td>Kỹ sư hiện trường (SE)</td>
<td>0995632394 <a href="mailto:duchieuvneco@gmail.com">duchieuvneco@gmail.com</a></td>
</tr>
<tr>
<td>2</td>
<td>Hoàng Mạnh Hùng</td>
<td>Chuyên viên liên lạc Công động (CLO)</td>
<td>0935555720 <a href="mailto:hungbq186@gmail.com">hungbq186@gmail.com</a></td>
</tr>
<tr>
<td>3</td>
<td>Cấn Trung Hùng</td>
<td>Phù trách an toàn sức khỏe và môi trường (ESHQ)</td>
<td>0918000254 <a href="mailto:cantrunghung@gmail.com">cantrunghung@gmail.com</a></td>
</tr>
<tr>
<td>4</td>
<td>Võ Duy Thụy</td>
<td>Phù trách an toàn sức khỏe và môi trường (ESHQ)</td>
<td>0916484007 <a href="mailto:duythuytrinhv@gmail.com">duythuytrinhv@gmail.com</a></td>
</tr>
<tr>
<td>5</td>
<td>Đỗ Văn Nam</td>
<td>Phù trách an toàn sức khỏe và môi trường (ESHQ)</td>
<td>0914000084</td>
</tr>
<tr>
<td>6</td>
<td>Lê Đình Dạnh</td>
<td>Phù trách an toàn sức khỏe và môi trường (ESHQ)</td>
<td>0917363233</td>
</tr>
</tbody>
</table>

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.
Pictures of the workshop conducted by SPPMB before civil work started.

Pictures of the training course on environmental policies conducted on 14-15/8/2014 by the ADB’s social and environmental specialists
Several shortcomings on environmental performances at sites
Shortcomings of environmental performances on worker’s health and safety