Environmental Impact Assessment

Project Number: 41924
May 2014
Document Stage: Final

Nam Ngiep 1 Hydropower Project
(Lao People’s Democratic Republic)

Appendix J1: Houay Ngua PPA Communication Letters

Prepared by Nam Ngiep Power Company Ltd. with assistance from ERM-Siam Co., Ltd. and Environmental Research Institute, Chulalongkorn University for the Asian Development Bank. This is an updated version of the draft originally posted in January 2012 available on http://www.adb.org/projects/documents/nam-ngiep-1-hydropower-project-results-eia

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Appendix J

Houay Ngua Provincial Protected Area (PPA) Official Documents
Appendix J1

Houay Ngua PPA Communication Letters
Minutes of the meeting

The discussion meeting for the solution on Houy Ngua Protected Area invasion

On March 13, 2009 at 14:00, at Borikhan district meeting room, the discussion meeting for the solution on the invasion of Houy Ngua Protected Area was opened, chaired by Borikhan district head, Mr Khanmany, and also participated by heads of deputy heads of offices and technical staff and villagers who are related to Houy Ngua Protected Area and district improved forest, with total of 30 participants. The meeting consent agreed on the solution for the invasion of Houy Ngua Protected Area and the determination of the scope of the improved forest area along the edge of 4B as following:

1. All pieces of land in the invaded Protected Area are strictly prohibited from further any agriculture production. It must be improved and recovered to be the natural forest. For the rice field land, it is overed 100 hectares.

2. For Eucalyptus plantation land, which have the contract with Heung Fad Hong Company amount of 62.79 hectares, it is allowed to continue for 3 times of harvest until 2017, and the land would be transferred to the government and then it must be recovered to be the natural forest. (It is strictly prohibited to change the propose of the land utilization)

3. Rubber trees, Ketsanatrees, Jatropha trees and other industrial trees must be definitely transferred to the government. It is considered as plantation for replacing the damage from the forest invasion.

4. 87 trees with 113.801 cubic meters and thick forest area of 5.14 hectares of villager named Mrs Khamhou, and include 69 wooden tucks with 90.096 cubic meters, 22.3 hectares of thick forest area would be seized and transfer to the government. It also proposed the upper level authority to implement the measure for the violators.

5. The camps along the edge of the Protected Area must be taken out and strictly prohibited to conduct any agriculture production in the area. Within 30 days, if no taking out of the camps, the authority would cooperate with central authority to implement the measure against the violators.

6. If there were new invasion into the Protected Area in 2008-2009, the double fine of the damage would be implemented.
7. For the improved forest on the right side of the road to the Borikhan district, which starts from downhill Pha Vang to the farm of Mr Mor Sisouvanh, from the road deep into the forest of 300 meters with the area of about 32 hectares, it was agreed to authorize for Agriculture and Forestry School to manage. From Mr Mor Sisouvanh farm to the electricity transmission poles, it is defined to be the constructed land of the district and also it is for the office construction of Kao Xin Xao company (Concession Company). From electricity transmission poles to Ketsana tree farm of Mr Si Chanh, it is defined as Lao-Korea natural recovered forest project.

8. The improved forest on the left hand side of the road to Borikhan district, which starts from the junction road to xoumxeun village to Houy Jak Khor, it is preserved as the district Protected area for various beneficial proposes. From Houy Jak Khor to the Nonesomboun area, it is defined as Protected Area of the road and deep 200 meters.

Therefore, this record is made as the reference for the future implementation.

Certified by:

Borikhan district head
Signed and Stamped
Mr Ken Lorna

Borikhan district, date: 13/03/2009
Meeting record person
Signed
Keovongdeanu
Registration for the participation in the discussion meeting for the solution on Houy Ngua Protected Area invasion on March 13, 2009

<table>
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<tr>
<th>No</th>
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Registration for the participation in the discussion meeting for the solution on Houy Ngua Protected Area invasion on March 13, 2009

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Lao People’s Democratic Republic
Peace Independence Democracy Unity Prosperity

Borikhamxay Province
Borikhon District

Report
On determination of Huay Ngua Protected Area
as Protected Area of Borikhamxay Province

- According to the discussion and agreement made by District Party Committees on 15 September 2008.
- According to baseline survey from the district and provincial authorities undertook the survey in Huay Ngua Protected Area dated 11th to 30th August, 2008.
- According to the meeting of the School of Agriculture and Forestry of Borikhamxay Province as the current implementer, dated 30th September 2009.

Huay Ngua is one of the urban areas of Borikhon district determined as a Protected Area of the district since 1998. Geography of this area is rather flat. Its height compared with the mountain areas is about 150 metres above the sea level. In the area, there are two distinctive forests; rain forest and mix tree forest, rich with intact nature and biodiversity such as in the main river streams: Huay Phern and Huay Ngua which flow throughout the whole year supporting plantation trees, non-timber forest products, aquatic animals and wildlife living in the area which is suitable for scientific research and ecotourism in the future.

Huay Ngua Protected Area is very important for Borikhon district particularly the livelihood of 5 villages around the Protected Area. A part of Huay Ngua will receive direct and indirect benefits in the future if the management plan is in place.

Borikhon district office has worked with the Office of Agriculture and Forestry and has a forestry management and land use management plan in the handing over of the land–forest, which is completed. Yet, the area has been seriously threatened from: mainly poaching, timber extraction and non-timber forest products and illegal land use. This has happened due to no commitment from everyone, lack of public awareness, incapacity of relevant organisations and financial constraints in the implementation.

In 2009, Huay Ngua Protected Area Project received financial support in the implementation of forest management activities by Lens and Lao-Luxemburg. This was to carry out the policies of Parliament, agreement of district parliamentary committee, to enable the activities to be implemented according to the socio-economic development plan of the district and as reference for donor in implementing project activities. The Provincial Agriculture and Forestry Department announced to all relevant sectors including villages, departments, sectors, offices, organisations, staff of private companies, government officials, soldiers, police, business people, traders, and to all ethnic people in the district and surrounding the Borikhamxay province alerting them to the nomination of Huay Ngua Protected Area in following details:

# Objectives:
- To inform everyone about the location and the area of Huay Ngua Protected Area.
- To restrict poachers from illegally hunting in the Protected Area, the illegal extract other resources in the area and to prevent unlawful occupation of the land for private use ownership.
- To serve as a baseline for a planning strategy and action plan of the project

# Target groups
- To conserve biodiversity and ecosystems in the area as that are growing.
- To create reforestation to compensate the deteriorated sections in the Protected Area to grow and become natural forest.
- To become a site for scientific research and eco-tourism of the province in the future (Borikhamxay School of Agriculture and Forestry use this Protected Area for students’ field studies).

# Geographic location, the area of HuayNgua Protected Area
1) Geographic location
Huay Ngua Protected Area is situated about 5 km away from the urban area of Borlikhan district, close to Nam Ngiep River and 15 km far from the Phou Khao Khuay National Protected Area.
- On the north, it borders with Ban Tha Heua, Sa Phou Ngou (Phou Dan Meuang) as: latitude: 356856, and longitude 2062000
- On the south, it borders with Houy Phern, the area of Ban Xomxeun as: latitude357425 and longitude2051250.
- On the east, it borders with Houy Phern, the area of Ban Nonsomboun and Ban Sisavath: latitude: 361375, and longitude 2055125,
- On the west, it borders with Nam Ngiep River as: latitude353400 and longitude 2054750.

2) Protected Area
The area of Huay Ngua Protected Area starts from Huay Phern Kong Phoung Fai to Pak Huay Nong to Hua Hai, and the area of Hua Pa Lot to Huay Ngua, Pak Tham Pa Douk to Ban Hang Hat Soup, to Huay Pa Kang to Plantation area of Mr Khounsup, along the bottom of the forest until the road, then along the road to Dan Viet to the old road access to Huay Ngua. Along Huay Ngua it climbs up to the foot of Phou Ngou Mountain at line level of 200 along the foot of this mountain to Phou Noy Mountain 204 Na Heua Liene to the old road route. Along the edge of rice field under the road to the Huay KhaLouang along the walkway then up to Hua Don Gnai close to Dan Fhoy Tong Hao along the start of forest upto the new road, and then along this new road up to plantation garden of Ms Khamhouh, then along the walkway on the north of this village up to and along past Huay Phernupto Pung Fai in a total area of 4,595 hectares.

Apart from this Huay Ngua Protected Area, the district also has two other Protected areas which are close to HuayNgua Protected Area:
  a) First Protected area: on the southern side, close to Nam Ngiep, the river of Hat Nguin villagers and Ban Tha Hua with a total area of 163 hectares.
  b) Second Protected area: is close to Huay Phern and close to the area of Ban Sisavath, Ban Nonsomboun and Ban Xomxeun with an area of 504 hectares.
+ There is also thick dense forest outside of the Protected Area of approximately 201.49 hectares in area.

Generated by Camscanner from intsig.com
# Restrictions

1. Extraction of timbers, non-forest timber products and illegal logging in this Protected Area is not permitted. If there is a necessity to use the timber in this area for public activities or household consumption, that has to proceed through the right procedures and permission from the concerned authorities.

2. No poaching or fish harvesting of any kind of fish, in all seasons, is permitted in this Protected Area and other Protected Areas.

3. No use of any technical tools and weapons that cause loud noise in this Protected Area and Protected areas.

4. No disposal of polluted waste, waste, discharging any chemicals into rivers, or littering of the Protected Area and Protected areas.

5. No use of any land lot in the Protected Area and Protected areas for the purposes of livestock and agricultural production are permitted. If any family has livestock there, this should be discontinued and remove such activities out of the Protected area to other places.

6. No land occupation by any individuals, slashing and burning the forest for plantation, agriculture and activities in the Protected Area and Protected areas are permitted. If such evidence is found to have occurred, the concerned sectors will conduct fieldwork and resolve the problems, laws and regulations will be imposed.

# Implementation measures

1. After this announcement is released by the Provincial authority, everyone is encouraged to take responsibility in the management of the Protected Area and other Protected Areas, being a good role model for each other, help government sectors to monitor for illegal activities and report any to authorities for further law enforcement.

2. The Provincial Agriculture and Forestry Department and relevant sectors must have a proper plan of management for the forest. If any problems can’t be solved they should be reported to the Provincial governor for consideration and guidance.

3. If any cause of disobeying the rules is found, the concerned authority will take action.

Therefore, this is an announcement to all people and sectors for implementation.

Certified by

School of Agriculture and Forestry, Borikhamxay  Head of Huay Ngua Protected Area

Mr Somsavath Xomkhamnilandon  Mr Sonexay
Lao People’s Democratic Republic
Peace Independence Democracy Unity Prosperity

BORIKHAMXAY PROVINCE
Agriculture and Forestry Division
Agriculture and Forestry School
No: 224/AFC.Bkh

Proposal

To: Borikhamxay governor

On: Proposal for determination of Houy Ngua Protected Area as the provincial Protected Area

- Based on the Forestry law No: 06/NA, dated: December 24, 2007, Part: II, article 11,
- Based on the resolution record for the invasion of Houy Ngua Protected Area, No: 030/DH.Bkh, dated: March 13, 2009,
- Based on the practical survey on the field of the Agriculture and Forestry School in the Houy Ngua Protected Area, it is found that it is lacking of entity to be the reference for the fund provider and other related organizations,

Borikhamxay Agriculture and Forestry School, who closely works for Houy Ngua Protected Area, would like to propose for the Houy Ngua Protected Area, located in Borikhan district, Borikhamxay Province with the area of 4595 hectares to be under the management of the province (provincial Protected Area) because the area is plentiful of natural forest resources and various biodiversity with high value, and it is also the wild elephant trail (with rich-ful Elephant food) between Phou Khao Khoay National Protected Area to Ngou mountain (Phou Dan Muang). This is an important place for wild elephant conservation project and can be the indicator the number of wild elephants in the future.

Therefore, I wrote this proposed letter for the consideration in the suitable way.

With best regards,

Certified

Provincial Agriculture and Forestry Division
Signed and stamped
Bounseng Thammavong

At School, dated: June 10, 2010
Borikhamxay Agriculture and Forestry School
Signed and stamped
Somsavath Somkhannilundon

Keoxomphou SAKDAVONG
Borikhamxay Province No: 0294
Pakxan, date: June 24, 2010

The agreement

of the Borikhamxay governor

on determination of the Houy Ngua Protected Area as the provincial Protected Area

- Based on the Forestry law No: 06/NA, dated: December 24, 2007
- Based on the discussion and consent agreement among the district party committee dated: September 15, 2008,

Borikhamxay governor agrees:

Article 1: It is agreed to adopt the forest area and land forest area of 4,595 hectares to be the Provincial Protected Area.

1.1 The Protected area location:
- On the north, it borders with Ban Tha Heua, Sai Phou Ngou (Phou Dan Meuang) latitude: 356856, and longitude 2062000,
- On the south, it borders with HouyPhern, the area of Ban Xomxeun: latitude: 357425, and longitude 2051250,
- On the east, it borders with Houy Phern, the area of Ban Nonsomboun and Ban Sisavath: latitude: 361375, and longitude 2055125,
- On the west, it borders with Nam Ngiep: latitude: 353400, and longitude 2054750.

1.2 Two more conservation areas
A. First conservation area: on the southern side, close to Nam Ngiep, the river of Hat Yuin villagers and Ban Tha Hua with a total area of 163 hectares.
B. Second conservation area: is close to Huay Phern and close to the area of Ban Sisavath, Ban Nonsomboun and Ban Xomxeun with an area of 504 hectares.
Article 2: It is assigned for provincial agriculture and forestry division, related sectors and Borikhan district authority to effectively implement the agreement.

Article 3: This agreement is effective since its signature date.

Borikhamxay governor
Signed and stamped
Pan Noymany

[Signature]
selectAll
NOTICE

To: - Borikhan District
    - Provincial Office of Natural Resources and Environment
    - Provincial Office of Public Works and Transport
    - Provincial Office of Agriculture and Forestry

Subject: Construction of Road through HouaNgoa Conserved Forest of Nam Ngiup 1 Hydropower Project

Based on the decision of Governor of Borikhamxay No. 094/BP, dated 18th February 2013;
Based on the report of Provincial Office of Natural Resources and Environment No. 1381/PONRE.BP, dated 25th March 2013;

Provincial Administrative Office of Borikhamxay Province has the honor to inform you the leading direction of the leaders that: Agree that Nam Ngiup 1 Hydropower Project operates the construction and improvement of road that goes through HouaNgoa Conserved Forest i.e. from Ban Nonsomboun to Nam Ngiup 1 hydropower dam; Provincial Office of Natural Resources and Environment is the center of coordination with Borikhan District, Provincial Office of Public Works and Transport, Provincial Office of Agriculture and Forestry and related organization in order to establish Management plan for implementation in accordance with Laws and regulations and provide conveniences and cooperation for this work.

Therefore, we inform you for considerations and implementation of the content of this notice.

Deputy Head of Provincial Administrative Office of Borikhamxay Province

[Seal and Signature]
SingkhamSouvankham

Send to:
- Borikhan District 1 copy
- Provincial Office of Natural Resources and Environment 1 copy
- Provincial Office of Public Works and transport 1 copy
- Provincial Office of Agriculture and Forestry 1 copy
- Archive 7 copies
Borikhamxay Province
Department of Natural Resource and Environment

Memo of minute for consultation meeting for environmental management

NNP1
➢ Refer to discussion of meeting held on 14-Feb-2014 (ADB ‘s visit)

The meeting was held on 19-2-2014 at 13:30hrs at PoNRE office with chairman
by Mr. Leuan vilay CHANTHALAPHAN_ Head of PoNRE and participated by several
Organization from Province and District which registered enclose herewith.

I. Purpose of this meeting
• To discus about environmental management work for NNP1
• To discus about forest and biodiversity management of Houy Ngoua
  PPA due to impacted from Road construction from Ban Nonsomboun
to Ban HatGniun_NNP1 and other activities

II. Result of meeting
1. Discussion about Houy Ngoua PPA protected management as
   following:
   • To be build up checking point at 2 Location along the PPA boundary ,
     and closely cooperate between local authority and NNP1; for expected
     budget shall be discussed later to clarify
   • To assign patrol team at least 15 times /month, inspection sheet forms
     shall be provided in according to regulation rule.
   • To have awareness program and incite to local community around 5
     villagers, district officer and spreading information by mean of
     appropriate way such as by radio, and TV) to understand about
     important of PPA
   • All action plan for PPA shall be completed within 21-2-2014.

2. Action Procedure
• Detail of action for implementation for each activity shall be complied
  with action plan enclosed herewith
• Responsibility is assigned to PoNRE and NNP1 (Mr. Apirat) to
  coordinate directly
• PoNRE will approve all budget necessary for work implementation..

3. To be held a consultation meeting and reporting of action result
To be provide budget for Provincial EMU and district to conduct the activities of environmental management (ESMMP)

Provincial EMU and District shall hold a consultation meeting with NNP1 ESM team

4. Basically agree with PPA site management guide line (with enclosed herewith) for detail will be discuss for next stage.

Therefore all party agree to record this MOM with NNP1 for reference, action and monitoring environmental work for next stage.

Borikhamxay, date 19/02/2014

Head of PoNRE

Leuan vilay CHANTHALAPHAN

Recorded by

Thavone
ឈ្នះបញ្ជាឆ្នើ

ក្រុមសិក្សារៀនឱ្យការប្រការចុងក្រោយប្រកបដោយឱ្យដែលអំពូលសំរាប់

ឈ្នះឱ្យការចុងក្រោយប្រកបដែលអំពូលសំរាប់

- គ្រឿងគួរប្រការចុងក្រោយ នៅថ្ងៃទី 14 ខែធ្នូ ឆ្នាំ 2014

ក្នុងថ្ងៃទី 10 ខែធ្នូ ឆ្នាំ 2014 និងថ្ងៃទី 13 ខែធ្នូ ឆ្នាំ 2014 គ្រឿងប្រការចុងក្រោយក្នុងប្រកបដែលអំពូលសំរាប់

I. ក្រុមសិក្សារៀនស្គាល់ពីការប្រការចុងក្រោយ

- គ្រឿងស្គាល់ពីការប្រការចុងក្រោយពីក្រុមសិក្សារៀនឱ្យនឹងប្រកបដែលអំពូលសំរាប់

II. សៀវភៅបំពាក់គ្រឿងស្គាល់ពីការប្រការចុងក្រោយ

1. សៀវភៅបំពាក់គ្រឿងស្គាល់ពីការប្រការចុងក្រោយប្រកបដែលអំពូលសំរាប់ (នៅថ្ងៃទី 14 ខែធ្នូ ឆ្នាំ 2014)

2. សៀវភៅបំពាក់គ្រឿងស្គាល់ពីការប្រការចុងក្រោយប្រកបដែលអំពូលសំរាប់ (នៅថ្ងៃទី 14 ខែធ្នូ ឆ្នាំ 2014)

3. សៀវភៅបំពាក់គ្រឿងស្គាល់ពីការប្រការចុងក្រោយប្រកបដែលអំពូលសំរាប់ (នៅថ្ងៃទី 14 ខែធ្នូ ឆ្នាំ 2014)
- ដើម្បីទទួលបានការប្រឈមប្រាកដយការប្រការក្នុងEMU អូក្លែវ ហើយ មេីង ៖ បុគ្គលិកនីមួយៗ និង បំបាលដ៏ពេញនិយម របស់អ្នកដែលចង់ទូទៅបាន (ESMMP).
- ដើម្បីទទួលបានការប្រការក្នុងEMU អូក្លែវ ហើយ មេីង ៖ បុគ្គលិកនីមួយៗ និង បំបាលដ៏ពេញនិយម របស់អ្នកដែលចង់ទូទៅបាន (ESMMP).

4. បានឈ្នះយកធាតុឈើប៉េងប៉េងលើកទីរបស់ប្រការក្នុងការប្រការប្រការសម្រាប់អ្នកនិងអ្នកដែលចង់ទូទៅបាន(សង្គមទារាយញ្ចូន)

ឯកុមារ, ថ្ងៃទី 19 /02/2014

កុមារ, សាលាកំរើតឱ្យប្រការប្រការប្រការសម្រាប់ អ្នកនិងអ្នកដែលចង់ទូទៅបាន សង្គមទារាយញ្ចូន

[សម្រាប់ប្រការប្រការ]

[អ្នកនិយាយ/ដំណើរការ]
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<td>10</td>
<td>APIRAT ZAMZIRZ</td>
<td>FMO MANGA</td>
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<td>NNP1PC</td>
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<tr>
<td>11</td>
<td>KASEM CHUOTHONG</td>
<td>DMO ESO</td>
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<td>12</td>
<td>PhonSawany-Phimmasone</td>
<td>Assistant Manager</td>
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<tr>
<td>13</td>
<td>Pynoshe Tanaka</td>
<td>Assistant Manager(Civil)</td>
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<td>NNP1PC</td>
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<td>14</td>
<td>Khengkhan</td>
<td>Senior Engineer</td>
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<td>NNP1 PC</td>
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<tr>
<td>15</td>
<td>Khengkhan</td>
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</table>
1. Location of Ancillary Sites
   1.1 Project activities within the Protected Area shall be kept to the minimum essential for its implementation and to approved activities only.
   1.2 Workers camps, machinery depots and material storage areas (other than the storage of small volumes of construction material excavated from the Protected Area site or about to be utilized in works within a week, on already disturbed areas) shall not be located within the Protected Area. Where activities or ancillary sites can be located outside the Protected Areas they shall. Where activities or sites are required within the Protected Area government approval shall be obtained before use.

2. Site Preparation
   2.1 Owner and the Contractor shall walk over or drive through the Protected Area with PoNRE representatives prior to commencing construction activities to confirm the extent of the area to be utilised, the type and duration of construction activities, and the associated environmental management measures that will be implemented.
   2.2 The extent of all works shall be surveyed and clearly pegged prior to the commencement of any related construction activities. Owner and the Contractor shall then jointly inspect the pegged works. Once approval has been granted by the Owner, the Contractor will install any management measures as early as possible.
   2.3 Initial environmental management measures shall be installed prior to the commencement of construction activities where possible or as soon as possible after construction commences where these measures cannot be physically installed any earlier. Major control measures shall be surveyed and pegged. The Construction Contractor or its nominated sub-contractor will then seek agreement for each major control with Owner’s Site Manager prior to commencing construction of that measure. Following agreement, the measure shall be installed immediately.
   2.4 All staff involved in construction activities within the Protected Areas shall be walked through the on-site layout of control measures to familiarize themselves with the functioning of controls and to avoid the removal or damage of these measures.
   2.5 The installed construction works and mitigation measures shall be checked
against the approved designs/plans by the Owner Site Manager and Owner Environment Officer.

3. Vegetation Protection

3.1 Any specified individual trees to be retained shall be clearly marked prior to the commencement of vegetation clearance or other project works with 50 m of these trees.

3.2 All machinery and tools with mud and soil brought from outside the country will be thoroughly washed down prior to use within the Protected Area to help prevent the spread of weeds and plant pathogens.

3.3 The re-vegetation of disturbed areas shall be done with a cover crop and species found within adjacent native vegetation in the Protected Area.

3.4 Weed control will be regularly undertaken using the best available practice/s.

4. Wildlife Protection

4.1 The Contractor shall develop a construction procedure that allows/encourages wildlife to move off-site before and during construction activities to avoid deaths. Measures may include: undertaking sequential clearing; and searching for fauna immediately prior to clearing then delaying clearing of any trees/areas with fauna until fauna have moved away from the area.

4.2 All heavy vehicles are only permitted to use the section of the main Project access road through Huay Ngua PPA during daylight hours to minimize the disturbance of wildlife in the Protected Area and the potential for wildlife deaths from traffic.

4.3 A speed limit of 30 km/hr shall apply to all project vehicle movements through the Protected Areas.

4.4 All project staff prohibited from harvesting any forest products and hunting wildlife within the Protected Areas.

5. General Provisions

5.1 Construction activities in the Protected Areas will primarily be undertaken during dry conditions to minimize erosion, sedimentation and water quality decline.

5.2 Project works and associated management measures in the Protected Areas shall be inspected one month prior to the commencement of the rainy season to identify any required works and prepare a maintenance program to be conducted prior to the rainy season.

5.3 No storage of fuels, chemicals or other hazardous materials shall occur
within the Protected Areas.

5.4 Construction wastes will be removed from site each day, with no waste stored within the Protected Area.

5.5 No chemicals will be used within the Protected Area unless essential to construction.

5.6 No burning will be undertaken within the Protected Areas.

6. Reporting Illegal Activities

6.1 Owner and the Contractor (or its sub-contractors) shall report any suspected illegal activities within the Protected Area it is using / working within to the relevant Government agency as soon as practical.

7. Supervisions and Remedial Action

7.1 Inspect construction activities within the Protected Area at least twice a week, advising the Contractor or its nominated sub-contractor of any non-conformances against permit conditions and specifying any required remedial action.

7.2 The Contractor or its nominated sub-contractor shall implement the remedial actions specified by the Owner Environment Officer within the time frame advised.

8. Site Signoff

8.1 Upon completion of construction activities, the Owner Environment Officer shall sign off on completed sections within the Protected Areas only after all remedial actions have been implemented by the Contractor or its nominated sub-contractor.
1. ตามเรื่องขอข้อมูล
1.1 ท่านจะยินยอมหรือไม่แล้วแต่กรณีที่ข้อมูลที่จะขออยู่ในข้อมูลปัจจุบันเกี่ยวกับที่ต้องการ ที่จะระบุเกี่ยวกับที่ต้องการได้ตามที่ต้องการ
2. ตามเรื่องขอข้อมูล
2.1 ตามที่ระบุไว้ในข้อมูลที่ต้องการขอให้ท่านได้รับข้อมูลที่ต้องการ ที่จะต้องการที่ต้องการขอให้ท่านได้รับข้อมูลที่ต้องการ
3. ตามเรื่องขอข้อมูล
2.3 _PACKET_3

3.3 _PACKET_3

4. _PACKET_4

5. _PACKET_5
6. ប្រាក់បន្ថែមពីការអារម្មណ៍
6.1 ចំណាត់ថ្នាក់ក្រាហរប្រឹក្សាមួយប្រភេទដូចជាក្រាហរសិប្បន័យ,ប្រភេទដូចជាក្រាហរជាធិបតី,ក្រាហរប្រភេទដូចជាក្រាហរប្រឹក្សាភិបាលនៃប្រទេស។ ប្រភេទនេះត្រូវបានក្លាយជាសេវាកម្មដោយមានប្រធានាធិបតីប្រកួតប្រជុំក្នុងក្រុមការអារម្មណ៍ ប្រភេទនេះទៅដល់អង្គការរបស់ប្រទេស។

7. ការដាក់ប្រសិទ្ធភាពនិងធ្វើដំណើរ
1.7 ការដាក់ប្រសិទ្ធភាពគឺជាមួយនឹងការសំខាន់ក្នុងការអារម្មណ៍ ត្រូវតែធ្វើការដាក់ប្រសិទ្ធភាពដោយផ្តល់ផ្នែកយោងដែលអាចធ្វើអោយក្រាហរប្រភេទនេះមានប្រាក់ប្រជុំការដែលប្រែប្រួលបាន។
2.7 ក្រាហរប្រភេទនេះត្រូវបានការដាក់ប្រសិទ្ធភាពដោយផ្តល់ផ្នែកជាមួយនឹងការដាក់ប្រសិទ្ធភាពនិងធ្វើដំណើរ។

8. ការធ្វើការប្រកួតប្រជុំ
8.1 ការទទួលបានខុសពិបាលនឹងត្រូវបានបញ្ហាប្រកួតប្រជុំ និងប្រកួតប្រជុំដែលធ្វើនៅក្នុងក្រាតី របស់ក្រាហរប្រភេទនេះ។ ការធ្វើប្រកួតប្រជុំនេះប្រកួតប្រជុំដែលសម្រាប់ប្រកួតប្រជុំនេះ។

Page 3 of 3
### Action Plan for control of illegal logging and poaching within Houay Ngua PPA

#### During road construction works (Feb 2014 to Apr 2015)

<table>
<thead>
<tr>
<th>No.</th>
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<td>Implementation of monitoring by NNP1 and contractor ad hoc basis</td>
<td>NNP1</td>
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<td>1-2</td>
<td>Implementation of Joint Inspection by Bolikhhamxay Province and NNP1</td>
<td>RMU / NNP1</td>
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<td>1-2-1</td>
<td>Planning of inspection items, frequency, organization and location of check point for Joint Inspection</td>
<td>RMU / NNP1</td>
<td>30-Apr-14</td>
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<tr>
<td>1-2-2</td>
<td>Confirmation of responsible authority for control of illegal and poaching within Houay Ngua PPA</td>
<td>PoNRE</td>
<td>31-Mar-14</td>
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<tr>
<td>1-2-3</td>
<td>Confirmation of legally authorized logging companies with related certification</td>
<td>PoAF</td>
<td>30-Apr-14</td>
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<td>1-2-4</td>
<td>Confirmation of regulations applied to local communities in terms of prohibited and acceptable activities within PPA</td>
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<td>1-3</td>
<td>Implementation of monitoring by stationed security guard</td>
<td>RMU</td>
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<td>1-Jun-14</td>
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<td>1-3-1</td>
<td>Planning of stationed security guard at agreed check points (monitoring items, monitoring frequency, organization, location of check points)</td>
<td>RMU / NNP1</td>
<td>30-Apr-14</td>
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<td><strong>Reporting procedure</strong></td>
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<td>2-1</td>
<td>Establishment of reporting procedure (From NNP1 to Bolikhhamxay Province)</td>
<td>RMU / NNP1</td>
<td>30-Apr-14</td>
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<td>2-2</td>
<td>Establishment of sharing procedure of monitoring results by stationed security guard between Bolikhhamxay Province and NNP1 including protocols for data collection, analysis and periodic reports on monitoring records.</td>
<td>RMU / NNP1</td>
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<td>3</td>
<td><strong>Legal status of Houay Ngua PPA</strong></td>
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<td>Confirmation of (i) conservation objectives, (ii) zoning such as concept of road corridor, (iii) management responsibilities and (iv) other restrictions.</td>
<td>PoNRE</td>
<td>21-Feb-14</td>
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<td>3-2</td>
<td>Preparation of revised Houay Ngua PPA map</td>
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<td>3-3</td>
<td>Erection of updated sign posts with the new PPA boundary and information on management arrangements including contact persons</td>
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<td><strong>Consultation meeting with local communities</strong></td>
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<td>4-1</td>
<td>Explanation control plan of illegal logging and poaching to local communities including Joint Inspection and to confirm concern of local villagers on forest use and monitoring by villagers themselves with local communities</td>
<td>RMU / NNP1PC</td>
<td>31-Mar-14</td>
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<td>4-2</td>
<td>Discussion with local communities on control plan involved with resident participation against illegal logging and poaching</td>
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<td>30-Apr-14</td>
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<td>Budget for stationed security guard</td>
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<td>30-Apr-14</td>
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<td><strong>Agreement with local authorities on control plan of illegal logging and poaching within Houay Ngua PPA</strong></td>
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<td>6-1</td>
<td>Agreement with local authorities for Joint Inspection</td>
<td>RMU / NNP1</td>
<td></td>
<td>31-May-14</td>
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<tr>
<td>6-2</td>
<td>Agreement with local authorities for stationed security guard</td>
<td>RMU / NNP1</td>
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<td>31-May-14</td>
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#### After road construction works up to COD of NNP1 (May 2015 to Jan 2019)

<table>
<thead>
<tr>
<th>No.</th>
<th>Task</th>
<th>Responsible Agency</th>
<th>Planned Completion Date</th>
<th>Current Status or Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td><strong>Monitoring</strong></td>
<td></td>
<td></td>
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<tr>
<td>7-1</td>
<td>Implementation of monitoring by stationed security guard</td>
<td>RMU</td>
<td>1-May-15</td>
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<tr>
<td>8</td>
<td><strong>Review</strong></td>
<td></td>
<td></td>
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<tr>
<td>8-1</td>
<td>Annual review of monitoring, reporting procedure and budget</td>
<td>RMU / NNP1</td>
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<td>Annually</td>
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#### After COD (From Feb 2019)

<table>
<thead>
<tr>
<th>No.</th>
<th>Task</th>
<th>Responsible Agency</th>
<th>Planned Completion Date</th>
<th>Current Status or Remarks</th>
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<tbody>
<tr>
<td>9</td>
<td><strong>Monitoring</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>9-1</td>
<td>Implementation of monitoring by stationed security guard</td>
<td>RMU</td>
<td>1-Feb-19</td>
<td></td>
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</tbody>
</table>
# Action Plan for control of illegal logging and poaching within Houay Ngua PPA

**As of 20th Feb 2014**

<table>
<thead>
<tr>
<th>No.</th>
<th>Task</th>
<th>Responsible Agency</th>
<th>Planned Completion Date</th>
<th>Current Status or Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Monitoring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1.1</td>
<td>Implementation of monitoring by NNPI and contractor ad hoc basis</td>
<td>NNPI</td>
<td>Already started</td>
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<tr>
<td>1.1.2</td>
<td>Implementation of Joint Inspection by Bolikhamsay Province and NNPI</td>
<td></td>
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<tr>
<td>1.2</td>
<td>Monitoring</td>
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<td></td>
</tr>
<tr>
<td>1.2.1</td>
<td>Planning of inspection items, frequency, organization and location of check point for Joint Inspection</td>
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</tr>
<tr>
<td>1.2.2</td>
<td>Confirmation of responsible authority for control of illegal and poaching within Houay Ngua PPA</td>
<td></td>
<td></td>
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<tr>
<td>1.2.3</td>
<td>Confirmation of legally authorized logging companies with realised certification</td>
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<tr>
<td>1.2.4</td>
<td>Confirmation of regulation apposite to local communities in term of prohibited and acceptable activities within PPA</td>
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<tr>
<td>1.3</td>
<td>Monitoring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3.1</td>
<td>Implementation of monitoring by stationed security guard</td>
<td>EMU</td>
<td>01-Jun-14</td>
<td></td>
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<tr>
<td>1.3.2</td>
<td>Planning of stationed security guard at agreed check points (monitoring items, monitoring frequency, organization, location of check points)</td>
<td>EMU</td>
<td>1-May-2014</td>
<td></td>
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<tr>
<td>1.4</td>
<td>Reporting procedure</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2.1</td>
<td>Establishment of reporting procedure (From NNPI to Bolikhamsay Province)</td>
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</tbody>
</table>

**During road construction works (Feb 2014 to Apr 2015)**

**特别重要时间表如下：**

- **监测工作**
  - 1.1.1：实施监测工作
  - 1.1.2：实施联合检查

- **监控工作**
  - 1.2.1：制订检查项目、频率、组织和检查点
  - 1.2.2：确认控制非法采伐和偷猎的责任
  - 1.2.3：确认合法授权的采伐公司
  - 1.2.4：确认与当地社区的相关规定

- **监测**
  - 1.3.1：实施固定看守监测
  - 1.3.2：固定看守监测规划

- **报告程序**
  - 2.1：报告程序建立

**Page 1 of 3**
<table>
<thead>
<tr>
<th>2-1</th>
<th>Establishing a monitoring plan (except for NNP1) (continued)</th>
<th>30-Mar-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-2</td>
<td>Establishment of sharing procedure of monitoring results by stationed security guard between Bolikhemxay Province and NNP1</td>
<td>EMU / NNP1 30-Apr-14</td>
</tr>
<tr>
<td>2-2</td>
<td>ตั้งแผนการติดตามผลการตรวจสอบผลการดำเนินการ โดยร่วมกับกรมป่าไม้</td>
<td>EMU / NNP1 30-May-2014</td>
</tr>
<tr>
<td>3</td>
<td>Legal status of Houay Ngua PPA</td>
<td>21-Feb-14</td>
</tr>
<tr>
<td>3-1</td>
<td>Confirmation of (i) conservation objectives, (ii) zoning such as concept of road corridor, (iii) management responsibilities and (iv) other restrictions.</td>
<td>21- กุมภาพันธ์-2014</td>
</tr>
<tr>
<td>3-2</td>
<td>เอกสารข้อมูลที่จำเป็นต่อการจัดทำแผนผัง</td>
<td>EMU / NNP1 30-Apr-14</td>
</tr>
<tr>
<td>3-2</td>
<td>Preparation of revised Houay Ngua PPA map</td>
<td>Already prepared</td>
</tr>
<tr>
<td>3-3</td>
<td>Erection of updated sign posts with the new PPA boundaries and information on management arrangement including contact person</td>
<td>EMU / NNP1 30-May-2014</td>
</tr>
<tr>
<td>3-3</td>
<td>ตั้งป้ายติดตามเขตพื้นที่ใหม่และข้อมูลเกี่ยวกับการจัดการ</td>
<td>EMU / NNP1 30-May-2014</td>
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<tr>
<td>4</td>
<td>Consultation meeting with local communities</td>
<td>31-Mar-14</td>
</tr>
<tr>
<td>4-1</td>
<td>Explanation control plan of illegal logging and poaching to local communities including Joint Inspection and to confirm concern of local villagers on forest use and monitoring by villagers themselves with local communities</td>
<td>EMU / NNP1 31-เมษายน-2014</td>
</tr>
<tr>
<td>4-2</td>
<td>Discussion with local communities on control plan involved with resident participation against illegal logging and poaching</td>
<td>EMU / NNP1PC 30-เมย-2015</td>
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<tr>
<td>5</td>
<td>Budget</td>
<td>30-Apr-14</td>
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<tr>
<td>5-1</td>
<td>Budget for Joint Inspection</td>
<td>EMU / NNP1 30-May-2014</td>
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<tr>
<td>5-2</td>
<td>Budget for stationed security guard</td>
<td>EMU / NNP1 30-Apr-14</td>
</tr>
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<td>5-2</td>
<td>งบประมาณสำหรับการจัดการป่าไม้</td>
<td>EMU / NNP1 30-May-2014</td>
</tr>
<tr>
<td>6</td>
<td>Agreement with local authorities on control plan of illegal logging and poaching within Houay Ngua</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Amount</td>
</tr>
<tr>
<td>------</td>
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<tr>
<td>6-1</td>
<td>Agreement with local authorities for Joint Inspection</td>
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<td>Agreement with local authorities for stationed security guard</td>
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<td>6-3</td>
<td></td>
<td>EMU / NNP1 31-May-14</td>
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</tbody>
</table>

After road construction works up to COD of NNP1 (May 2016 to Jan 2019)

7 Monitoring

7-1 Implementation of monitoring by stationed security guard | EMU 01-May-15 |

8 Review

8-1 Annual review of monitoring, reporting procedure and budget | EMU / NNP1 Annually |

After COD (From Feb 2019)

9 Monitoring

9-1 Implementation of monitoring by stationed security guard | EMU 01-Feb-19 |

9-2  |  | EMU 1-February-2015 |