

9 CONCLUSIONS

Overall, the assessment of magnitude of the potential impacts indicates that the environmental impacts are expected to be minor. The transmission line route has been selected to minimize impact on environmental and social resources. For the most part, biodiversity in the areas through which the transmission lines will pass has been degraded due to intensive human use for agriculture, hunting, and collection of NTFPs and TFPs.

The total area of the ROW for the length of the proposed transmission line is 5.5 km². The ROW travels through the land of 904 households within 81 villages. The level of impact will vary between villages depending on the proximity of the village settlement and land uses within the proposed ROW.

The key socio-economic impacts of the transmission line will be the resettlement of households within the ROW, the loss of productive land (forests and agricultural land) within the footprint of the sub-station and the towers and the loss of forests and commercial trees within the ROW.

Other Project impacts are likely to include temporary nuisance impacts related to construction activities.

With adequate compensation and implementation of management and mitigation measures the residual environmental and social impacts are likely to be minor.

The findings of this IEE indicate that the IEE, supported by the EMP and RAP, provide sufficient assessment of environmental and social issues and identification of management and mitigation measures. Therefore, further assessment (i.e. an EIA) is not required. This recommendation is based on the findings of this IEE, the current design of the Project and GOL legislation. The recommendation, however, will need to be reconsidered if the design or location of project infrastructure changes.

10 REFERENCES

ADB (2006) *Lao PDR: An Evaluation Synthesis On Rice*. A Case Study from the 2005 Sector Assistance Program Evaluation for the Agriculture and Natural Resources Sector in the Lao People's Democratic Republic.

ADB (2005). *GMS Biodiversity Conservation Corridors initiative Strategic Framework and Technical Assessment*.

Department of Forestry (2007), *Village Rights and Responsibilities to Manage and Use Land and Forest Resources*, Vientiane 2007

Duckworth, J. W., R. J. Timmins and T. D. Evans (1998) The conservation status of the river lapwing *Vanellus duvaucelii* in southern Laos. *Biological Conservation*. Volume 84, Issue 3, Pages 215-222.

Electricite du Lao (2006), *Environmental Management Plan for Xeset 1 to Saravan 115KV Transmission Line System and associated sub-station in Saravan*, October 2006

Electricite du Lao, Department of Electricity, JICA (2009), *The study on power network system plan in Lao PDR – Interim Report*, Vientiane, May 2009-08-21

FAO, Food and Agriculture Organization of the United Nations (2003) *Report on Asia regional workshop on "Traditional use and availability of aquatic biodiversity in rice-based ecosystems"*. Xishuangbanna, Yunnan, P.R. China.

Google Earth (2009), *Google Earth Imagery of the Transmission Line Route*, sourced May 2009, www.googleearth.com

IUCN (2008) *Red List of Threatened Species*. International Union for the Conservation of Nature.

James, D (2006) The impact of aquatic biodiversity on the nutrition of rice farming households in the Mekong Basin: Consumption and composition of aquatic resources. *Journal of Food Composition and Analysis*. Volume 19, Issues 6-7, September-November 2006, Pages 756-757.

Korea Electric Power Corporation (2007), *Initial Environmental Examination and Environmental Management Plan for the 115KV Transmission Project Ban Hat in Champassak Province (Laos) to Stung Treng (Cambodia)*, February 2007

Kosaka, Y., Shinya Takeda, Saysana Sithirajvongsa and Khamleck Xaydala (2006) Plant diversity in paddy fields in relation to agricultural practices in Savannakhet Province, Laos. *Economic Botany*, 60(1), 2006, pp. 49-61.

Kottelat, M (1997) *Distribution of the fishes previously considered endemic to the Nam Theun and Xe Bangfai basins, Lao PDR*. NTEC.

Forest Inventory Planning Department, FIPD (2002) *Appendix 1. Vegetation Classification Definitions*. Government of Lao PDR.

Mekong River Commission (MRC). 2008. *An Assessment of Water Quality in the Lower Mekong Basin*. MRC Technical Paper No. 19. November 2008.

Mekong River Commission (MRC). 2005. *Overview of the Hydrology of the Mekong Basin*. ISSN:1728 3248. November 2005.

Ministry of Industry and Handicrafts (2004), *Lao Electrical Power Standards*, Vientiane, February 2004

National Statistics Centre, (2005), Population and Housing Census Year 2005, Savannakhet, Lao PDR.

National Statistics Centre, (2006), Population and Housing Census Year 2005, Saravan, Lao PDR.

National Statistics Centre (2007), Population and Housing Census Year 2005, Preliminary Report, Vientiane, Lao PDR.

Newman-Meusch, E. 1996. Participatory assessment of ricefield fisheries in Atsaphangtong District, Savannakhet Province, Lao P.D.R. Auburn, AL, USA, Auburn University. 76 pp. (M.Sc. thesis)

STEA (2004). National Biodiversity Strategy to 2020 and Action Plan to 2010. Science Technology and Environment Agency. Vientiane.

Wikramanayake, E., E. Dinerstein, et al. (2002). Terrestrial Ecoregions of the Indo-Pacific: A Conservation Assessment. United State of America, Island Press.

WREA (2009) Lao PDR National Environmental Performance Assessment (EPA) Report. Prepared by Water Resources and Environmental Administration, Lao PDR and Project Secretariat UNEP Regional Resource Center For Asia and the Pacific, 2009

Savannakhet Province Government (2009) Savannakhet 2007-2008 Socio-Economic and Development Plan

Saravan Province Government (2008) Saravan 2007-2008 Socio-Economic and Development Plan

Appendix 1 – Stakeholder Consultation Information Brochure (English and Lao)

TRANSMISSION LINES INTERCONNECTION PROJECT IN THE CENTRAL AND SOUTHERN PROVINCES OF LAO PDR

1. NAME AND STATUS OF THE PROJECT

Project Name: The Transmission Lines Interconnection Project in the Central and Southern Provinces of Lao PDR.

Project Status: *Feasibility*

2. NAME AND ADDRESS OF DEVELOPER

Name of Developer: Electricite du Lao (EDL)

Funded by: Japan International Cooperation Agency (JICA)

Head Contractor: Tokyo Electric Power Company, INC. (TEPCO)

Contact Address:

Electricite du Laos (EDL)/ JICA Study Team, Lao PDR
JICA Laos Project Office
PO.Box 309, Nongbone Road,
Vientiane, Lao PDR

3. PROJECT OBJECTIVES, CHARACTERISTICS AND DEVELOPMENT PLAN

Project Objectives:

In Lao PDR, there are four electric power networks; the Northern network, the Central 1 network, the Central 2 network and the Southern network, which are independently operated and not interconnected. The Government of Lao PDR with support from the Government of Japan is planning to connect the four power networks. The objectives of network interconnection include:

- To improve the National power network
- To increase the efficient management of the power sector,
- To enhance economic activities
- To contribute to fulfilling the Basic Human Needs of Lao PDR.

This project focuses on the interconnection of the Central 2 and the South power networks.

TRANSMISSION LINES INTERCONNECTION PROJECT INFORMATION BROCHURE



Project Characteristics and Development Plan:

It is proposed that the Central 2 and South Power networks will be connected via a 115kV transmission line route which runs for approximately 220km, from Pakbo substation in Savannakhet Province through a switching station at Nongnou to a planned substation in Saravan Province. The transmission line route passes through seven districts across the two provinces. The 115kV right of way clearance is 25m resulting in a total area of 5.5km² that will be required for the line.

The transmission line corridor is adjacent to existing roads (Route 13 and Route 15) and passes within 500m of the Phou Xieng Tong National Protected Area (NPA) and 5km of the Xe Bang Nuan NPA and crosses three major rivers (Xe Banghiang, Xe Bang Nuan, Xe Done (Figure 1)).

4. THE ENVIRONMENTAL AND SOCIAL ASSESSMENT PROCESS

Company conducting the environmental and social assessment

Earth Systems Lao

015, Ave. Kaysone Phomvihane

P.O. Box 2582, Vientiane, Lao PDR

Tel: (+ 856) 021 413 723

Fax: (+ 856) 021 416 563

Web: www.earthsystemslao.com

The environmental and social assessment requirements of this project

Earth Systems Lao has been commissioned by TEPCO (funded by JICA) to conduct an independent Initial Environment Examination (IEE) and prepare an Environmental Management Plan (EMP) and a Resettlement Action Plan (RAP) for the project.

These documents need to be prepared to obtain approval from Department of Electricity (DOE), Ministry of Energy and Mines (MEM), and the Water Resources and Environment Administration (WREA) prior to an Environmental Compliance Certificate (ECC) being issued as stipulated in the Regulation on Environment Assessment, Regulation No. 1770/STEA.

No decision has been taken as to whether or not this project will be developed. The reason for this study is to assess the impact of the transmission line on the environment and the livelihoods of communities living close to the project area.

Key potential environmental and social impacts

The primary impact of the project is likely to be loss of agricultural, forest and other land and structural assets along the transmission line corridor and within the footprint of the switching station and the Saravane sub-station.

Construction of the transmission line in close proximity to two NPAs and within the corridor between the two NPAs may also impact biodiversity in the area.

Other impacts, primarily associated with construction, are likely to include:

- Nuisance noise and air quality (dust and vehicle exhaust) impacts;
- Erosion and sediment transport from construction sites;
- Water quality impacts associated with sediment transport and the potential release of hazardous materials, such as oils and hydrocarbons;
- Waste management (spoil and solid waste).

All potential environmental and social impacts will be investigated during the IEE, and management measures will be identified to prevent or minimise identified impacts.

Consultation

Effective community consultation is a central aspect of contemporary development projects in Lao PDR. For this assessment, the following stakeholder groups will be consulted:

- Affected households;
- Village authorities of villages within the Project Area;
- Diverse social groups within the Project Area including (but not limited to): women, ethnic minority groups, youth and elderly;
- Provincial and District Authorities of the two provinces and seven districts affected;
- Central Government of Lao PDR (DOE, MEM; WREA);
- Non-governmental organisations and development agencies operating in the project area.

The following consultation methodologies will be used:

- Formal interviews / meetings;
- Focus group meetings;
- Consultation workshops.

An open consultation session to report the findings of the IEE, the next steps in the environmental approvals process and to obtain feedback from stakeholders will be held in Savannakhet in August 2009. Persons and groups consulted during the IEE process (as listed above) will be officially invited to this session, and an open invitation to the meeting will be published in the Vientiane Times.

5. NEXT STEP AFTER THE CONSULTATIONS

Comments from the consultation meetings will be incorporated into the draft IEE, EMP and RAP documents. Final documents will then be submitted to DOE, MEM and WREA for final consideration.

The final IEE, EMP, RAP and related Management Plans will be submitted to JICA and EDL for review then submitted to EDL and DOE. These documents will be stored at the EDL and WREA offices. A copy of these documents can be obtained by contacting the ESIA Division of WREA and the EDL Environment Office during business hours (contact details below).

6. WHERE TO ADDRESS COMMENTS

When there are comments or concerns regarding to the Project, the people, particularly in the Project Area can send their comments to the following address.

Water Resources and Environment Administration (WREA) ESIA Unit Office Prime Minister's Office P.O.Box 2279, Sidamdaoun Road Vientiane, Lao PDR Business Hours: 8:30 am – 4:30 pm	Electricite du Lao (EDL) JICA Laos Project Office PO.Box 309, Nongbone Road, Vientiane, Lao PDR Business Hours: 8:30 am – 4:30 pm
--	---

ໂຄງການເຊື່ອມຕໍ່ສາຍສົ່ງສາຍໄຟຟ້າແຮງສູງຢູ່ພາກກາງ ແລະ ແຂວງພາກໃຕ້ທີ່ ສປປ ລາວ

1. ຊື່ ແລະ ສະຖານະຂອງໂຄງການ

ຊື່ໂຄງການ: ໂຄງການເຊື່ອມຕໍ່ສາຍສົ່ງສາຍໄຟຟ້າແຮງສູງຢູ່ພາກກາງ ແລະ ແຂວງພາກໃຕ້ທີ່ສປປ ລາວ
ສະຖານະຂອງໂຄງການ: ຂັ້ນຕອນການສຶກສາຄວາມເປັນໄປໄດ້

2. ຊື່ ແລະ ທີ່ຢູ່ຂອງຜູ້ພັດທະນາໂຄງການ

ຊື່ຜູ້ພັດທະນາໂຄງການ: ລັດວິສາຫະກິດໄຟຟ້າລາວ (ຟຟລ)

ຊື່ຜູ້ໃຫ້ທຶນຊ່ວຍເຫລືອ: ອົງການຍີ່ປຸ່ນ ຮ່ວມມືສາກົນ (ອົງການ ໄຈກ້າ)
(Japan International Cooperation Agency (JICA))

ຊື່ຜູ້ຮັບເໝົາຫລັກ: ບໍລິສັດ ໂຕກຽວພະລັງງານໄຟຟ້າ ຈຳກັດ (ເທັບໂກ)
(Tokyo Electric Power Company, INC. (TEPCO))

ທີ່ຢູ່ຕິດຕໍ່:

ລັດວິສາຫະກິດໄຟຟ້າລາວ(ຟຟລ)/ທີມງານສຶກສາຂອງ ອົງການໄຈກ້າ, ສປປ ລາວ
ຫ້ອງການໂຄງການ ອົງການການໄຈກ້າປະຈຳລາວ
ຕູ້ ປ.ນ. 309, ຖະນົນໜອງບອນ
ວຽງຈັນ, ສປປລາວ

3. ຈຸດປະສົງ, ຈຸດພິເສດ ແລະ ແຜນການພັດທະນາຂອງໂຄງການ

ຈຸດປະສົງຂອງໂຄງການ:

ໃນ ສປປ ລາວ, ແມ່ນມີເຄືອຄ້າຍພະລັງງານໄຟຟ້າຢູ່ 4ເຄືອຄ້າຍ: ເຄືອຄ້າຍພາກເໜືອ, ເຄືອຄ້າຍພາກກາງ ທີ່ 1, ເຄືອຄ້າຍພາກກາງ ທີ່ 2 ແລະ ເຄືອຄ້າຍພາກໃຕ້ ເຊິ່ງມີການຄວບຄຸມປະຕິບັດວຽກບໍ່ຂຶ້ນນຳກັນ ແລະ ບໍ່ມີການເຊື່ອມຕໍ່ກັນ. ລັດຖະບານ ສປປລາວ ໂດຍການໃຫ້ການສະໜັບສະໜູນຈາກລັດຖະບານ ຍີ່ປຸ່ນໄດ້ມີແຜນການທີ່ຈະເຊື່ອມຕໍ່ 4 ເຄືອຄ້າຍພະລັງງານໄຟຟ້າເລົ່ານີ້. ເບົ້າໝາຍໃນການເຊື່ອມຕໍ່ສາຍສົ່ງແມ່ນ

- ເພື່ອປັບປຸງເຄືອຄ້າຍພະລັງງານໄຟຟ້າແຫ່ງຊາດ
- ເພື່ອເພີ່ມສະມັດຕະພາບໃນການຄຸ້ມຄອງຂອງພາກສ່ວນພະລັງງານໄຟຟ້າ
- ເພື່ອສົ່ງເສີມກິດຈະກຳທາງດ້ານເສດຖະກິດ
- ເພື່ອເປັນພາກສ່ວນໜຶ່ງໃນການຕອບສະໜອງຄວາມຈຳເປັນຂັ້ນພື້ນຖານຂອງປະຊາຊົນໃນ ສປປ ລາວ

ໂຄງການນີ້ແມ່ນເໜັ້ນໃສ່ ການເຊື່ອມຕໍ່ເຄືອຄ້າຍພະລັງງານໄຟຟ້າພາກກາງ ທີ່ 2 ແລະ ເຄືອຄ້າຍພາກໃຕ້.

ໂຄງການເຂື່ອນຕໍ່ສາຍສົ່ງສາຍໄຟຟ້າແຮງສູງຢູ່ພາກກາງ ແລະ ແຂວງພາກໃຕ້ທີ່ ສປປ ລາວ



ຈຸດພິເສດ ແລະ ແຜນການພັດທະນາຂອງໂຄງການ:

ໄດ້ມີການສະເໜີໃຫ້ມີການເຊື່ອມຕໍ່ເຄືອຍຄ້າຍພະລັງງານໄຟຟ້າພາກກາງ ທີ່ 2 ແລະ ເຄືອຄ້າຍພາກໃຕ້ ໂດຍນຳໃຊ້ສາຍສົ່ງໄຟຟ້າແຮງສູງ 115 ກິໂລໂວນ ເຊິ່ງມີຄວາມຍາວປະມານ 220 ກມ, ຈາກສະຖານີຍ່ອຍປາກໂບ ທີ່ແຂວງສະຫວັນນະເຂດ ໄປຜ່ານສະຖານີເປີດປິດ ຢູ່ບ້ານ ນອງນູ ໄປຫາສະຖານີຍ່ອຍທີ່ມີການວ່າງແຜນທີ່ ແຂວງສາລະວັນ. ເສັ້ນທາງຂອງສາຍສົ່ງໄຟຟ້າແຮງສູງແມ່ນຜ່ານ 7 ເມືອງ ຂອງ 2 ແຂວງ. ສາຍສົ່ງໄຟຟ້າ ແຮງ ສູງຂະໜາດ 115 ກິໂລໂວນ ນີ້ ແມ່ນຈຳເປັນຕ້ອງມີການຖ່າງປ່າ ຫລື ບໍ່ໃຫ້ມີສິ່ງກົດຂວ້າງໃນຂອບເຂດ 25 ແມັດ ໄປທັງສອງຂ້າງຂອງສາຍສົ່ງ ເຊິ່ງລວມເນື້ອທີ່ທັງໝົດທີ່ຕ້ອງຖ່າງໃນການສ້າງສາຍສົ່ງແມ່ນ 5.5 ກິໂລແມັດກາເລັ້.

ຈຸດເຊື່ອມຕໍ່ ຂອງສາຍສົ່ງໄຟຟ້າແຮງສູງ ແມ່ນຈະຢູ່ໃກ້ຄຽງ ກັບເສັ້ນທາງ (ເລກທີ 13 ແລະ 15) ແລະ ຜ່ານພາຍໃນຂອບເຂດ 500 ແມັດ ຂອງປ່າສະຫວງແຫ່ງຊາດພູຊຽງທອງ ແລະ 5 ກິໂລແມັດ ຂອງປ່າສະຫວງແຫ່ງຊາດ ເຊບັງນວນ ຜ່ານ 3 ສາຍແມ່ນຈຳໃຫ້ເຊັ່ນ: (ເຊບັງຮຽງ, ເຊບັງນວນ ແລະ ເຊໂດນ) (ແຜນທີ່ 1).

4. ຂະບວນການຂັ້ນຕອນໃນການປະເມີນຜົນທາງດ້ານສິ່ງແວດລ້ອມ ແລະ ສັງຄົມ

ບໍລິສັດທີ່ ດຳເນີນການປະເມີນສິ່ງແວດລ້ອມ ແລະ ສັງຄົມ

ບໍລິສັດ ເອີດຊີສະແຕມລາວ
015, ສະຖິນໄກສອນ ພິມວິຫານ
ຕູ້ ປ.ນ 2582, ວຽງຈັນ, ສປປ ລາວ
ໂທ: 856-21-413723
ແຟກ: 856-21-416563
ແວບ: www.earthsystemslao.com

ການປະເມີນຜົນທາງດ້ານ ສິ່ງແວດລ້ອມ ແລະ ສັງຄົມທີ່ຕ້ອງການສຳຫລັບໂຄງການ

ບໍລິສັດ ເອີດຊີສະແຕມລາວ ໄດ້ຖືກມອບໜ້າທີ່ ໃຫ້ສຶກສາການປະເມີນຜົນກະທົບດ້ານສິ່ງແວດລ້ອມຂັ້ນຕົ້ນ ແລະ ກະກຽມແຜນການຄຸ້ມຄອງທາງດ້ານສິ່ງແວດລ້ອມ (EMP) ແລະ ແຜນການຍົກຍ້າຍຈັດສັນ (RAP) ສຳຫລັບໂຄງການນີ້.

ເອກະສານບົດລາຍງານດັ່ງກ່າວມາຂ້າງເທິງນັ້ນ ແມ່ນຕ້ອງໄດ້ກະກຽມ ເພື່ອໃຫ້ໄດ້ຮັບອະນຸຍາດຈາກ ກົມໄຟຟ້າ, ກະຊວງພະລັງງານ ແລະ ບໍ່ແຮ່, ແລະ ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສິ່ງແວດລ້ອມກ່ອນ, ກ່ອນທີ່ຈະໄດ້ຮັບໃບຢັ້ງຢືນທາງດ້ານສິ່ງແວດລ້ອມ ຕາມເງື່ອນໄຂ ຂອງກົດລະບຽບການປະເມີນຜົນກະທົບທາງດ້ານສິ່ງແວດລ້ອມ, ກົດລະບຽບນໍ້າເບີ 1770/ອວຕສ.

ແນວໃດກໍຕາມ ຍັງບໍ່ທັນໄດ້ມີການຕັດສິນໃຈ ວ່າໂຄງການນີ້ຈະມີການພັດທະນາ ຫຼື ບໍ່. ເຊິ່ງເຫດຜົນຂອງການສຶກສານີ້ແມ່ນເພື່ອປະເມີນຜົນກະທົບຈາກສາຍສົ່ງທີ່ຈະມີຕໍ່ສິ່ງແວດລ້ອມ ແລະ ຊີວິດການເປັນຢູ່ຂອງຊຸມຊົນທີ່ອາໄສຢູ່ໃກ້ກັບຂອບເຂດໂຄງການ.

ຈຸດທີ່ອາດ ຈະຖືກຜົນກະທົບ ທາງດ້ານ ສິ່ງແວດລ້ອມ ແລະ ສັງຄົມ

ຜົນກະທົບເບື້ອງຕົ້ນ ຈາກໂຄງການ ອາດຈະແມ່ນ ການເສຍພື້ນທີ່ ການທຳການຜະລິດ, ພື້ນທີ່ປ່າຈຳນວນ ໜຶ່ງ ແລະ ດິນນຳໃຊ້ ຕ່າງໆ ແລະ ອາດຈະມີ ຊັບສິນສ່ວນບຸກຄົນ ບາງຈຳນວນ ທີ່ຢູ່ລຽບຕາມຂອບເຂດ ເຊື່ອມຕໍ່ຂອງສາຍສົ່ງໄຟຟ້າ ແລະ ໃນບໍລິເວນພື້ນທີ່ເປົ້າໝາຍ ຂອງສະຖານີ ປັດເປັດ ແລະ ສະຖານີ ຍ່ອຍໃນແຂວງ ສາລະວັນ.

ການກໍ່ສ້າງ ສາຍສົ່ງໄຟຟ້ານີ້ ແມ່ນໃກ້ກັບ ສອງເຂດປ່າ ສະຫວງແຫ່ງຊາດ ແລະ ໃນເຂດເຊື່ອມ ຕໍ່ຂອງສອງປ່າສະຫວງ ແຫ່ງຊາດນີ້ ກໍ່ອາດຈະຖືກຜົນກະທົບທາງດ້ານ ຊີວະນານາພັນ ເປັນຕົ້ນ.

ຜົນກະທົບອື່ນໆ, ເຊິ່ງເນື່ອງຈາກການທຳການກໍ່ສ້າງ ເບື້ອງຕົ້ນ ອາດຈະຖືກຜົນກະທົບເຊັ່ນ:

- ຜົນກະທົບຈາກ ສຽງລົບກວນຕ່າງໆ ແລະ ຄຸນນະພາບອາກາດ (ຂີ້ຝຸ່ນ ແລະ ຂວັນລົດ)
- ການເຊາະເຈື່ອນ ແລະ ການເຄື່ອນຍ້າຍ ຂອງຂີ້ຕະກອນ ຈາກບໍລິເວນທຳການກໍ່ສ້າງ
- ຜົນກະທົບ ເລື່ອງຄຸນນະພາບນ້ຳ ເນື່ອງຈາກ ການເຄື່ອນຍ້າຍຂອງ ຂີ້ຕະກອນ ແລະ ອາດມາຈາກ ການວັດສະດຸແຂງ ຕ່າງໆ ເຊັ່ນ: ນ້ຳມັນ ແລະ ທາດໄຮໂດຼກາກບອນ.
- ການຈັດສັນຂີ້ເຫຍື້ອຕ່າງໆ (ສິ່ງເສດເຫຼືອ ແລະ ຂີ້ເຫຍື້ອ ຊະນິດແຂງ ຕ່າງໆ)

ທຸກໆຜົນກະທົບ ທາງດ້ານສິ່ງແວດລ້ອມ ແລະ ສັງຄົມ ຈະໄດ້ຮັບການສຶກສາ ແລະ ສຳຫຼວດ ໃນຊ່ວງການ ສຶກສາດ້ານສິ່ງແວດລ້ອມເບື້ອງຕົ້ນ ແລະ ວິທີປ້ອງກັນ ຫຼື ການລຸດຜ່ອນ ຜົນກະທົບຈະມີການການວາງອອກເພື່ອໃຫ້ຜົນກະທົບມີໜ້ອຍສຸດ.

ການປົກສາຫາລື

ການປົກສາຫາລືຂັ້ນຊຸມຊົນທີ່ມີປະສິດທິຜົນ ແມ່ນເປັນຈຸດໃຈກາງທີ່ສຳຄັນຂອງການພັດທະນາໂຄງການທີ່ທັນສະໄໝ ໃນປັດຈຸບັນທີ່ ສປປ ລາວ. ສຳຫລັບການປະເມີນຜົນຄັ້ງນີ້, ແມ່ນຈະໄດ້ມີການປົກສາຫາລືກັບຜູ້ທີ່ມີສ່ວນຮ່ວມໂດຍກົງ ແລະ ທາງອ້ອມກໍ່ຄືກຸ່ມຄົນຈາກພາກສ່ວນດັ່ງຕໍ່ໄປນີ້

- ຄົວເຮືອນທີ່ໄດ້ຮັບຜົນກະທົບຕໍ່;
- ຄະນະ ຫລືອົງການຈັດຕັ້ງບ້ານ ຂອງບັນດາບ້ານທີ່ຂອບເຂດໂຄງການ;
- ລວມເຖິງບັນດາກຸ່ມຄົນ ທີ່ມີຄວາມແຕກຕ່າງກັນໃນສັງຄົມ ຢູ່ໃນຂອບເຂດໂຄງການ (ແຕ່ວ່າບໍ່ໄດ້ຈຳກັດ) ລວມເຖິງ: ກຸ່ມແມ່ທຍົງ, ກຸ່ມຊົນຊາດຊົນເຜົາສ່ວນໜ້ອຍ, ກຸ່ມຊາວໜຸ່ມ ແລະ ຜູ້ອາຈຸໂສ;
- ອຳນາດການປົກຄອງແຂວງ ແລະ ເມືອງໃນສອງ ແຂວງ ແລະ ເຈັດເມືອງທີ່ຖືກຜົນກະທົບ

- ພາກສ່ວນລັດຖະບານຈາກສູນກາງຂອງ ສປປ ລາວ (ກົມໄຟຟ້າ, ກະຊວງພະລັງງານ ແລະ ບໍ່ແຮ່, ແລະ ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສິ່ງແວດລ້ອມ)
- ອົງການສາກົນ ຕ່າງໆ ແລະ ອົງການພັດທະນາຕ່າງໆ ທີ່ໄດ້ມີການເຄື່ອນໄຫວ ໃນຂົງເຂດຂອງໂຄງການ.

ວິທີການ ຕ່າງໆທີ່ຈະນໍາໃຊ້ເຂົ້າ ໃນການປຶກສາຫາລື ມີຄື:

- ການສອບຖາມ/ການປະຊຸມຢ່າງເປັນທາງການ
- ການປຶກສາຫາລື ກັບກຸ່ມເປົ້າໝາຍ
- ການປະຊຸມປຶກສາຫາລືແບບປະຕິບັດເປັນກຸ່ມໃຫຍ່

ການຈັດກອງປະຊຸມປຶກສາຫາລືຢ່າງເປີດເຜີຍ ແລະ ເປັນທາງການ ເພື່ອລາຍງານຜົນໄດ້ຮັບຈາກການ ສຶກສາ ການປະເມີນຜົນກະທົບດ້ານສິ່ງແວດ ລ້ອມຂັ້ນຕົ້ນ, ແມ່ນຂັ້ນຕອນຕໍ່ໄປໃນຂະບວນການ ເພື່ອຂໍອະນຸມັດທາງ ດ້ານສິ່ງແວດລ້ອມ ແລະ ເພື່ອຈະໄດ້ຮັບຄໍາແນະນໍາເພີ່ມເຕີມຈາກຜູ້ທີ່ມີສ່ວນຮ່ວມໂດຍກົງ ແລະ ທາງອ້ອມ ທີ່ແຂວງສະຫວັນນະເຂດໃນເດືອນ ສິງຫາ 2009. ບັນດາບຸກຄົນ ແລະ ກຸ່ມຄົນຕ່າງໆ (ດັ່ງທີ່ໄດ້ກ່າວໄວ້ທີ່ຜ່ານ ມາຂ້າງເທິງ) ຈະໄດ້ຖືກຮັບເຊີນເຂົ້າຮ່ວມກອງປະຊຸມປຶກສາຫາລືຢ່າງເປັນທາງການ ແລະ ເນື້ອໃນຂອງການ ປະຊຸມຄັ້ງນີ້ແມ່ນຈະຖືກຈັດພິມອອກທາງໜັງສືພິມ ວຽງຈັນທາມສ.

5. ຂັ້ນຕອນຕໍ່ໄປທັງຈາກການປຶກສາຫາລື

ຄໍາສະເໜີຈາກກອງປະຊຸມປຶກສາຫາລືຈະຖືກປະກອບເຂົ້າໃນຮ່າງບົດລາຍງານການສຶກສາ ການປະເມີນຜົນ ກະທົບດ້ານສິ່ງແວດລ້ອມຂັ້ນຕົ້ນ, ແຜນການຄຸ້ມຄອງທາງດ້ານສິ່ງແວດລ້ອມ, ແລະ ແຜນການຍົກຍ້າຍຈັດ ຂັ້ນ. ບົດລາຍງານເລົ່ານີ້ ພາຍຫລັງມີການກວດແກ້ຄັ້ງສຸດທ້າຍແລ້ວຈະຖືກສົ່ງໄປໃຫ້, ກົມໄຟຟ້າ, ກະຊວງພະລັງງານ ແລະ ບໍ່ແຮ່, ແລະ ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສິ່ງແວດລ້ອມເພື່ອຮັບການພິຈາລະນາຂັ້ນສຸດ ທ້າຍ.

ບົດລາຍງານການສຶກສາການປະເມີນຜົນກະທົບດ້ານສິ່ງແວດລ້ອມຂັ້ນຕົ້ນ, ແຜນການຄຸ້ມຄອງທາງດ້ານສິ່ງແວດ ລ້ອມ, ແຜນການຍົກຍ້າຍຈັດຂັ້ນ ແລະ ແຜນການຄຸ້ມຄອງທີ່ກ່ຽວຂ້ອງຕ່າງໆສະບັບກວດແກ້ຄັ້ງສຸດທ້າຍຈະມີ ການເກັບມ້ຽນທີ່ທ້ອງຖານລັດວິສາຫະກິດໄຟຟ້າລາວ ແລະ ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສິ່ງແວດລ້ອມ. ສໍາເນົາຂອງບົດລາຍງານເລົ່ານີ້ແມ່ນສາມາດເອົາໄດ້ ໂດຍການຕິດຕໍ່ກັບທ້ອງຖານກອງປະເມີນຜົນກະທົບທາງ ດ້ານສິ່ງແວດລ້ອມ ແລະ ສັງຄົມ ທີ່ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສິ່ງແວດລ້ອມ ແລະ ທ້ອງຖານສິ່ງແວດລ້ອມ ລັດວິສາຫະກິດ ໄຟຟ້າລາວ ໃນໂມງລັດຖະການ (ທີ່ຢູ່ແມ່ນຄືດັ່ງລຸ່ມນີ້).

6. ສະເໜີຄຳເຫັນໄດ້ທີ່

ເມື່ອມີຄຳສະເໜີ ຫລື ຂອດຂ້ອງໃຈ ຫລື ບໍ່ເຂົ້າໃຈອັນໃດກ່ຽວກັບໂຄງການ, ບັນດາປະຊາຊົນ ໂດຍສະເພາະ ປະຊາຊົນຢູ່ໃນບໍລິເວນຂອບເຂດເນື້ອທີ່ໂຄງການແມ່ນສາມາດສົ່ງຄຳສະເໜີຕ່າງໆມາໄດ້ດັ່ງທີ່ຢູ່ລຸ່ມນີ້.

<p>ອົງການຊັບພະຍາກອນນໍ້າ ແລະ ສົ່ງແວດລ້ອມ (WREA) ຫ້ອງການກອງປະເມີນຜົນກະທົບທາງດ້ານສົ່ງແວດລ້ອມ ແລະ ສັງຄົມ ສຳນັກງານນາຍຍົກ ຕູ້ ປ.ນ. 2279, ຖະນົນ ສີດຳດວນ ວຽງຈັນ, ສປປ ລາວ ໂມງລັດຖະການ: 8:30 - 16:30</p>
<p>ລັດວິສາຫະກິດໄຟຟ້າລາວ(ຟຟລ) ຫ້ອງການໂຄງການ ອົງການໄຈກ້າປະຈຳລາວ ຕູ້ ປ.ນ. 309, ຖະນົນໜອງບອນ ວຽງຈັນ, ສປປລາວ ໂມງລັດຖະການ: 8:30 - 16:30</p>



Appendix 2 – List of Stakeholders Consulted

Table 1: List of Stakeholders Consulted: Field Mission 1, June 2009

Central Government			
1	Water Resources and Environment Adm	Mr Phouvong Luangsaysan	Deputy Director, ESIA Department
2	Land Management Authority	Mr. Noupanh Mahaphonh	Director General, Land Policy and Inspection Division
3	Ministry of Agriculture and Forestry	Mr. Khamma Homsysavath	GIS Unit, Department of Forestry
4	Ministry of Energy and Mines	Mr Chanto Milattanapheng	Head of Environment and Social Division
Saravanh Provincial Level			
5	Provincial Administrative Office	Mr. Bounthavy Lasasimma	General Manager
6	Provincial Agriculture and Forestry Department	Mr. Viengkeo chanthaboun	Deputy Director of Planning
7	Land Authority provincial Department	Mr. Symon Simmavong	Director of information section
8	Energy and Mine Department	Mr. Sangthong Inthapavy	General Manager
Saravanh District			
9	District Administrative Office	Mr. Bounlan Khammexay	Technical staff
10	District Agriculture and Forestry Department	Mr. Oulot	Technical staff
11	Land Management Authority	Mr. Thavyxay	Technical staff
Vapi District			
12	District Administrative Office	Mr. Keooudon	Technical staff
13	District Agriculture and Forestry Department	Mr. Souk	Technical staff
14	Land Management Authority	Mr. Bouangun	Technical staff
Lakhonepheng District			
15	District Administrative Office	Mr. Vaha Keobounlay	Technical staff
16	District Agriculture and Forestry Department	Mr. Vaisanit	Technical staff
17	Land Management Authority	Mr. Xayxana	Technical staff
Savannakhet Provincial Level			
18	Provincial Administrative Office	Mr. Inthavongsin Sithivorada	Deputy Director
19	Provincial Agriculture and Forestry Department		
20	Land Authority provincial Department	Mr. Kongsy Prasysombat	Deputy Director
21	Energy and Mine Department	Mr. Phoukhong Nammachack	Deputy Director
Khaisone District			
22	District Administrative Office	Mr. Phoxay	Technical staff
23	District Agriculture and Forestry Department	Mr. Somphan	Technical staff

Annex 2: List of Stakeholders Consulted

24	Land Management Authority	Mr. Chindavong	Technical staff
<i>Champhone District</i>			
25	District Administrative Office		Technical staff
26	District Agriculture and Forestry Department		Technical staff
27	Land Management Authority	Mr. Thongsa	Technical staff
<i>Xayphothong District</i>			
28	District Administrative Office	Mr. Thitdoug	Technical staff
29	District Agriculture and Forestry Department	Mr. Sengsavanh	Technical staff
30	Land Management Authority	Mr. Phetsomphone	Technical staff
<i>Songkhone District</i>			
31	District Administrative Office	Mr. Bounlang	Technical staff
32	District Agriculture and Forestry Department	Mr. Souksavat	Technical staff
33	Land Management Authority	Mr. Patchan	Technical staff
<i>Villages</i>			
Village representatives x 19 (See table 4 below)			

Table 2: List of Stakeholders Consulted: Field Mission 2, July 2009

No.	Sector	Name	Position
Saravanh Provincial Level			
1	Energy and Mine Department	Mr. Khammany	Technical staff
Saravanh District			
2	District Administrative Office	Mr. Xaiyasith	Technical staff
3	Land Management Authority	Mr. Souksakhone	Technical staff
4	District WREA	Mr. Keovongkot	Technical staff
Vapi District			
5	District Administrative Office	Mr. Keooudon	Technical staff
6	Land Management Authority	Mr. Bouangun	Technical staff
Lakhonepheng District			
7	District Administrative Office	Mr. Vaha Keobounlay	Technical staff
8	Land Management Authority	Mr. Songthong	Technical staff
Savannakhet Provincial Level			
10	Energy and Mine Department	Mr. Phoukhong Nammachack	Deputy Director
Khaisone District			
11	District Administrative Office	Mr. Phoxay	Technical staff
Champhone District			
12	District Administrative Office	Mr Lamthoun	Technical staff
Xayphothong District			
13	District Administrative Office	Mr. Khanxay	Technical staff
Songkhone District			
14	District Administrative Office	Mr. Kham-anh	Technical staff
Villages			
15	Village representatives x 63 (See table 4 below)		

Table 3: List of Stakeholders, Workshop, August 2009

No.	Sector	Name	Position
Central Level			
1	Land Management Authority	Mr. Noupanh Mahaphonh	Director General, Land Policy and Inspection Division
2	Ministry of Agriculture and Forestry	Mr.Sukan Bounthapandith	GIS Unit, Department of Forestry
3	Electricity du Laos	Mr. Bounjieng Keovilayvanh	Director of system planning
4	Electricity du Laos	Mr. Anongsith Philavong	Technical official of Environmental Division
5	Ministry of Energy and Mines, DOM	Mr.Southan Nanthaparaya	Environment and Social Division
Saravan Provincial Level			
6	Provincial Administrative Office	Mr. Bounthavy Lasasimma	General Manager
7	Provincial Agriculture and Forestry Department	Mr. Sengdan Khonbuan	Deputy Director of Planning
8	Land Authority provincial Department	Mr. Symon Simmavong	Director of information section
9	Energy and Mine Department	Mr. Sangthong Inthapavy	General Manager
10	Electricity du Lao of saravan	Mr. Lerthsamay	Deputy Director
11	Electricity du Lao	Mr. Bounsom	Head of substation
12	District WREA	Mr. Vithaya sinavong	Chief unit
Saravan District			
13	District Administrative Office	Mr. Phoumi Orsathai	Deputy Governor
14	District Agriculture and Forestry Department	Mr. Oulot	Technical staff
15	Land Management Authority	Mr. Thavyxay	Technical staff
Vapi District			
16	District Administrative Office	Mr. Bounthavi	Governor
17	District Agriculture and Forestry Department	Mr. Souk	Technical staff
18	Land Management Authority	Mr. Bouangun	Technical staff
Lakhonepheng District			
19	District Administrative Office	Mr. Langsi	Governor
20	District Agriculture and Forestry Department	Mr. Vaisanit	Technical staff
21	Land Management Authority	Mr. Xayxana	Technical staff
Savannakhet Provincial Level			
22	Provincial Administrative Office	Mr.Phonevilay Keobounsone	Deputy Officer
23	Provincial Agriculture and Forestry Department	Mr. Bounyod Namsena	
24	Land Authority provincial Department	Mr. Kongsy Prasysombat	Deputy Director
25	Energy and Mine Department	Mr. Phoukhong Nammachack	Deputy Director
26	District WREA	Mrs. Vaiyuveth sixaisonboun	Chief environmental division

<i>Khaisone District</i>			
27	District Administrative Office	Mr. Chanthalay Sitthinalongsin	Deputy Governor
28	District Agriculture and Forestry Department	Mr. Saysavanh Ounoutha	Chief Office
29	Land Management Authority	Mr. Chindavong	Technical staff
<i>Champhone District</i>			
30	District Administrative Office	Mr. Lamngeun Thongsiakson	Governor
31	District Agriculture and Forestry Department	Mr. Banlang	Chief Office
32	Land Management Authority	Mr. Thongsa	Technical staff
<i>Xayphothong District</i>			
33	District Administrative Office	Mr. Soukkaserm Senavong	Governor
34	District Agriculture and Forestry Department	Mr. Sengsavanh	Chief Office
35	Land Management Authority	Mr. Phetsomphone	Chief Office
<i>Songkhone District</i>			
36	District Administrative Office	Mr. Keo oudone	Governor
37	District Agriculture and Forestry Department	Mr. Kiengsack	Chief Office
38	Land Management Authority	Mr. Patchan	Technical staff

(See also, Annex 3: Workshop Report)

Table 4: Villages Consulted

Consulted Field Mission 1, June 2009. All other villages consulted during Field Mission 2, July 2009

Province	District	Village Name	Village Chief
SVK	Kaysone	Ban Pakbor	Mr. Boualai Saiyalat
		Ban Nongduern	Mr. Khamwan Thongsamlit
		Ban Dongnakham	Mr. Thongphoun Bounmixay
		Ban Phonsim	Mr Panya Keovilayvong
		Ban Dongmakyang	Mr Noupphone Saykosi
		Ban Houay	Mr Bounthieng Yothmalakham
		Ban Somsa-at	Mr. Bouavanh
		Ban Xokvang-Tai	Mr. Khanha
	Champhone	Ban Lak 35	Mr. Khamphan Thepkaisone
		Ban Nateuy	Mr. Nounsin
	Xaiphouthong	Bna Khamxan	Mr BounthiengSibouaphan
		Ban Khasavang+Khousa	Mr.Kham Phanthavong
		Ban Sisavang	Mr Khounxay Khammixay
		Ban Dongmakfai	Mr.Phoukeo Duangdy
		Ban Phonsikeo	Mr. Daosadeth Sonesuvamasee
		Ban Nakae+++	Mr. Chantha
	Songkhone	Ban Oumnamkhong	Mr. Bounlurn
		Ban Nongnokkhian	Mr.Thong
		Ban Nonesomphou	Mr. Jonh
		Ban Nonesomboune	Mr. Khamdee
		Ban Lattana	Mr.Vongphachan(keaug)
		Ban Thongsymouang	Mr Bounthomsiphoxay
		Ban Malaythong	Mr Sathien Thongsob
		Ban Khummouan	Mr Somchai Somsit
		Ban Hintek	Mr. Ampha
		Ban Nonesavang	Mr. Keokhamphat
		Ban Salaleio	Mr Laothong
		Ban Nongkhangou	Mr Khamphai
		Ban Nontaothanh	Mr vaen
		Ban Kengtanganh	Mr. Southavi

Annex 2: List of Stakeholders Consulted

		Ban Naoudom	Mr Phu kam	
		Ban Houaypian	Mr. Loun	
		Ban Nakhanhom	Mr Suli keoboun heung	
		Ban Donxat	Mr. Loun	
		Ban Senouan Nuea	Mr Kamhone	
SRV	Lakhonggeng	Ban Phouangsavanh	Mr. Hong	
		Ban Phouangmalay	Mr. Noum	
		Ban Okart	Mr. Ko	
		Ban Nonsavang	Mr Boun Leun	
		Ban Nongkhitom	Mr. Kham	
		Ban Donvay	Mr kian ketsone	
		Ban Nathom	Mr Sam Lan	
		Ban Lakhonsy-Tai	Mr. Somesack	
		Ban Houaykaphoxay	Mr. Phomsalit	
		Ban Xokpheng	Mr. Khamsen	
		Ban Nadoukao	Mr. Chit	
		Ban Nonedinsai	Mr. Lern	
		Ban Lak 94	Mr. Amkha savilai	
		Ban Lak 90	Mr. Ngan lasikeo	
		Ban Phoudaochang	Mr. Boun	
		Ban Nongsano	Mr. Bounhom	
		Ban Tangbeng	Mr Thong Vanh	
		Ban Phonepheng	Mr. Khamsen	
		Ban Nanglao	Mr. Nika Chanthalansi	
		Ban Lakhonsy-Kang	Mr NaLong shi	
	Ban Donelay	Mr Vanta		
		Vapi	Ban Vapi	Mr. Pany
			Ban Phaylom	Mr.Somlay
			Ban Nonkho	Mr. Nokhone
			Ban Nakoktan	Mr BounKham
			Ban Nongngong	Mr. Somchai
		Ban Bangkhanam	Mr somphone	
		Ban Phakha	Mr Bounhueng	
		Ban Sapath	Mr. Khamla	
		Ban Mouang	Mr. Phommee	
		Ban Kengsouthi	Mr somlith	

Annex 2: List of Stakeholders Consulted

		Ban Lao	Mr Boudsa
		Ban Kengkou	Mr Khamta
		Ban Mai oudomxai	Mr Sida
	Salavan	Ban Bungkham	Mr. Bounta Khanthasenghong
		Ban Nongsai	Mr. Sounthone
		Ban Bungxai	Mr. Chanthone
		Ban Donekeo	Mr. Bounmee
		Ban Thongnakham	Mr. Bounmee
		Ban Nonbouhin	Mr. Khamla
		Ban Phakphaewthong	Mr Vansy
		Ban Nadonkoua	Mr. Khamphong
		Ban Tong-noi	Mr. Sounthone
		Ban Maisivilay	Mr. Khanthaly
		Ban Nathon	Mr. Samlan
		Ban Tong-Ngai	Mr. Dam

Appendix 3 – Workshop Report

Agenda

Minutes

Photos

Attendance

Stakeholders Workshop Agenda

Presenting the Draft Initial Environmental Examination
(IEE) and Draft Preliminary Resettlement Action Plan
(RAP)

For the

Transmission Lines Interconnection Project in the
Central and Southern Provinces of Lao PDR

Workshop conducted by



EARTH SYSTEMS LAO
Environment - Water - Sustainability

13.30 Wednesday 5th August – Savannakhet

&

13.30 Thursday 6th August – Saravanh

Workshop Agenda

Wednesday, 5 th August 09 (Savannakhet)	WORKSHOP			
	Time	Session	Description of session	Presenter
And	13.30– 13.40	Opening address	Opening speech	Mr. Phoukong Nammachack (Savannakhet)
				Mr. Bounthavy Lasasimma (Saravanh)
Thursday, 6 th August 09 (Saravanh)	13.40- 13.50	Opening	Introduce the development goals of Lao PDR and the importance of this interconnection transmission line project	EDL Manager Mr. Souli Vongsengkeo (SNK) EDL Manager Mr. Dethsouvanh Vongsengkeo (SRV)
	13.50 – 14.05	Overview of the proposed project	Provide details of the proposed project.	Ms Mayumi Goto (JICA) & Mr Vilaphorn Visounnarath (EDL)
	14.05- 14.15	Welcome	Introduction the role of ESL, importance of the IEE and RAP and the workshop agenda - objectives and anticipated outputs	Mr Nanong Khotphathoum (ESL)
	14.15- 15.00	Initial Environmental Examination	Present findings from the Initial Environment Examination	Mr Nanong Khotphathoum (ESL) and Mr Bouavong Luangkhot (ESL)
	15.00– 15.10	Coffee break		
	15.10- 15.40	Questions and Answers	Participants present questions regarding IEE presentation	Lead: Nanong Khotphathoum (ESL)
	15.40-	Resettlement	Presentation of Draft Preliminary	John Pilgrim (ESL)

	16.05	Action Plan	Resettlement Action Plan	Associate) Translation: Vongvilay Khotphathoum (ESL)
	16.05– 16.35	Questions and Answers	Participants present questions regarding RAP presentation	John Pilgrim (ESL Associate) Translation: Vongvilay Khotphathoum (ESL)
	16.35– 16.45	Next steps: IEE & RAP	Provide overview of next steps in the IEE process	Mr Nanong Khotphathoum (ESL)
	16.45	Close	Meeting close	Mr. Phoukong Nammachack (Savannakhet) Mr. Bounthavy Lasasimma (Saravanh)

Initial Environmental Examination (IEE) and Draft Preliminary Resettlement Action Plan (RAP)

for

Transmission Lines Interconnection Project in the Central and Southern Provinces of Lao PDR

Workshop, 5th – 6th August, 2009

Objectives:

1. To open the meeting session and report the findings of the IEE and the RAP
2. To obtain feedback from the stakeholders for incorporation into the draft IEE and RAP.

Proceedings:

- **Workshop at Savannakhet, 5th August 2009**

1. Opening of the workshop:

13.45pm

The ceremony was opened by the Deputy Director of Energy and Mine, Mr. Phoukong Nammachack, who outlined the objectives of the meeting and gave a general overview of the importance of electricity in Lao PDR and of the 115kv transmission line interconnection, from Pakbo substation in Savannakhet Province to a planned substation in Saravan Province. He also asked for the participants' opinion of the project.

14.00pm

Mr. Souli Vongsenko, from EDL Savannakhet introduced the hydropower electricity development plan project for Lao PDR and gave a brief overview of hydropower projects in the country such as Nam Theun 2, Theun HinBoun, Xeset 2, and Xe Khaman 3. He outlined the objectives of the transmission line interconnection project and discussed the problems faced by Lao PDR in the power sector, with the main one being that the country still imports electricity from both Thailand and Vietnam. Approximately 90% of the southern region of Lao PDR (from

Savannakhet to Saravan) still imports electricity from Thailand. He also mentioned the environmental and social development for this project and the villages that will be impacted by the project.

2. Overview of the proposed project:

2.15pm

Mrs. Phouthone Phalangok (Deputy Manager of the EDL Environment Office), briefly introduced herself, roles and responsibilities of Environmental Office and the transmission line interconnection project.

Ms. Mayumi Goto, the environmental specialist from the JICA study team gave an overview of the study on the Power Network System Plan in Lao PDR. Lao PDR currently has four electric power networks - the northern network, the central 1 network, the central 2 network, and the southern network - which are independently operated and not interconnected. Due to this, Lao PDR is facing problems related to technical inconvenience, financial inefficiency and dependency on power imports from Thailand.

The Government of Lao PDR is being supported by the Government of Japan for the interconnection of the four electric power networks. Currently, the interconnection between the central 2 and southern networks is at the feasibility stage.

Lastly, Ms. Mayumi discussed the project goals and JICA's overview on environment and society. She also highlighted the importance of this meeting for receiving opinions and inputs for the project.

3. Introduction to the role of Earth Systems Lao and the importance of the IEE:

2.30pm

The findings of the IEE were presented by Mr Nanong Khotpathoum on behalf of ESL, who began by outlining ESL's roles and responsibilities and explaining the importance of environmental and social impact studies for all projects (for example for hydropower or mining projects).

Mr Nanong then presented the findings of the draft IEE. Firstly, he introduced the project and the project owners then provided an overview of the environmental and social assessment

process including the main objectives of the IEE, the project background, the project description, the project design and the project alternatives.

Next he presented the biophysical and socio-economic impacts and mitigation measures that were identified for the project. These included the impacts and mitigation measures in relation to biodiversity and conservation, land use, aquatic biodiversity, erosion and sediment transport, water quality, air quality, waste, archaeology, health and safety, and UXO. The IEE concluded that the environmental and social impacts are likely to be minor and that the main impacts are likely to include the temporary impacts related to construction activities.

4. Resettlement action plan:

4.10pm

Mr. John Pilgrim, an ESL associate, presented the draft preliminary resettlement action plan. (RAP) Firstly, Mr. John discussed the impact of the transmission line (TL). There are 904 households along the TL and little adverse impact is expected on households and communities in the project area. The main impact is from the felling trees and this is the most expensive part of the compensation. Loss land is also caused by the footprints of 544 towers of the transmission line. This has a minor impact and households will be compensated for their paddy lands, gardens and swidden land at the market price. The main impact is on the land of 9 villages.

In addition, the construction of substation will require approximately 3ha. ESL proposed for the TL to be re-aligned to go around the impacted villages. Further discussion will need to be undertaken with EDL on how to realign the TL. The main task for EDL will be to conduct a full Inventory of Losses for all 904 households in both Savannakhet and Saravan provinces (which is likely to require between 2-3 months work with approximately 20 people to conduct the survey). Mr. John Pilgrim also mentioned that the compensation for the villages will need to be done at least 2 months before construction and that the compensation budget will be based on a full Detailed Measurement Survey (DMS).

The temporary losses from the construction of the project will be determined when the IOL and DMS are completed. Mr John mentioned that construction should be undertaken during the dry season and that the work be conducted according to a timetable (in consultation with the farmers) in order to minimize the impact on land. He also mentioned that in the past transmission line projects have had less financial support, and so the project will require assistance from the communities and other relevant sectors.

The estimated value of tree loss is approx. 30.000 and the price of compensation will require further discussion. However, the impact of the project will not push anyone into poverty (with the exception of a few groups). The RAP can add value to the communities in the project area and ESL proposes that financial support for village funds, Lao language learning for ethnic minorities, literacy, mother-child health care, agricultural learning, and financing of provincial HIV/AIDS programs (awareness and prevention) be undertaken. Mr. John also highlighted the risk of HIV/AIDS from the contractors that are brought in during construction.

5. Questions and answers:

- Mr. Sukan Bounthapandith, GIS unit from the Ministry of Agriculture and Forestry, raised the following points at the meeting. Firstly, he mentioned option 1 of the proposed transmission alignment and was concerned that the route would pass through productive forest in Laongam district. He raised a second concern regarding compensation, and mentioned that if the impacted households are not properly compensated for they may disturb the National Protected Areas (NPAs). Therefore, he requested that compensation be taken seriously and fairly by EDL and the other organizations involved.
 - Mr. John Pilgrim answered that regarding fair compensation, monitoring and evaluation will be provided by ESL through the Environmental Management Plan (EMP) and through an independent organisation appointed by EDL. This will ensure that the compensation process is carefully conducted.
- Mr. Soukaserm Xayyavong, from the Xayphothong District Administration Office, requested for JICA and EDL to review the compensation price (at page 47 of RAP report) as there is some land that may be more expensive than others. He also inquired about what other projects do to derive the unit price. And other point is that at the table 8.2 ban Khamxan, most of the land is agriculture land then the impacted to agriculture should be “Yes”.
 - Mrs. Phouthone Phalangok, explained that the compensation prices are just an estimate for the moment and example from previous EDL project, it are not yet finalized. Further study will be undertaken and if the project is approved there will be more consultation with the relevant sectors.
- Mr. Lumgnern Thongsyarksone, from Chumphone district, mentioned that even though there are 2 villages in the Chumphone district that are impacted by the project, he still agrees with the project as the impacts are minor.

- Mr. Noupbane Mahaphon, from the Land Management Authority, stressed that EDL should carefully undertake the compensation for land loss.
- Mrs. Vaiyuleth Vixaysomboun from the provincial WREA commented that district level WREA should be involved with the project.
- Mrs. Phouthone Phalangok answered that WREA is usually involved with most projects, then thanked everyone for their comments.

6. Meeting close

17.25pm

Mr. Phouvong Nammachack closed the meeting.

Workshop at Savannakhet, 6th August 2009

1. Opening of the workshop:

13.45pm

The general manager of the Saravan Provincial Administrative Office, Mr. Bounthavy Lasasimma, opened the ceremony and gave a general overview on the importance of electricity in Lao PDR and of the transmission line interconnection project. He also asked for the participants' opinion and inputs.

1.55pm

Mr. Dethsuvanh from Saravan EDL, discussed the objectives of the project and the problems being faced by Lao PDR in the power sector. He gave examples of hydropower projects such as Nam Theun 2, Theun Hinboun and Xeset 2 that can also help reduce dependence on electricity imports from the neighbouring countries (Thailand and Vietnam). In addition, he briefly discussed the JICA transmission line interconnection project and the potential impacts of this project.

2. Overview of the proposed project:

2.05pm

Mrs. Phouthone Phalangok, briefly introduced herself, roles and responsibilities of Environmental Office and the project.

Ms. Mayumi Goto, the environmental specialist from the JICA study team gave an overview of the study on the Power Network System Plan in Lao PDR. Lao PDR currently has four electric power networks - the northern network, the central 1 network, the central 2 network, and the southern network - which are independently operated and not interconnected. Due to this, Lao PDR is facing problems in relation to technical inconvenience, financial inefficiency and dependency on power imports from Thailand.

The Government of Lao PDR is being supported by the Government of Japan for the interconnection of the four electric power networks. Currently, the interconnection between the central 2 and southern networks is at the feasibility stage.

Lastly, Ms. Mayumi discussed the project goals and JICA's overview on environment and society. She also highlighted the importance of this meeting for receiving opinions and inputs for the project.

3. Introduction the role of Earth Systems Laos and the importance of the IEE:

2.25pm

The findings of the IEE were presented by Mr Nanong Khotpathoum on behalf of ESL, who began by outlining ESL's roles and responsibilities and explaining the importance of environmental and social impact studies for all projects (for example hydropower or mining projects).

Mr Nanong then presented the findings of the draft IEE. Firstly, he introduced the project and the project owners then provided an overview of the environmental and social assessment process including the main objectives of the IEE, the project background, the project description, the project design and the project alternatives.

Next he presented the biophysical and socio-economic impacts and mitigation measures that were identified for the project. These included the impacts and mitigation measures in relation to biodiversity and conservation, land use, aquatic biodiversity, erosion and sediment transport, water quality, air quality, waste, archaeology, health and safety, and UXO. The IEE concluded that the environmental and social impacts are likely to be minor and that the main impacts are likely to include the temporary impacts related to construction activities.

4. Resettlement action plan:

Mr. John Pilgrim, the ESI associate presented the draft preliminary resettlement action plan (RAP). First, Mr. John mentioned that the project will affect about 46 villages (460 households) in Saravan but these will only lose a small amount of land. There is little severe social impact associated with the project and no relocation of houses is expected.

Around 1.5ha of land will be lost in Saravan due to the transmission line from the footprints of the towers (size 7m x 7m). The losses lands include village settlement, forestry and agriculture land (Table 8.2 in RAP handout). The biggest impact is the loss of valuable trees. All those who lose land and timber trees will be compensated for at the market price. Mr. John mentioned that the owners might even gain an income from tree loss as they will be able to keep or sell the timber that was cleared. He also highlighted that in this case, resettlement is about the restoration of the wealth and livelihoods of project affected people.

ESL proposed for the TL to be re-aligned to go around the impacted villages. Further discussion will need to be undertaken with EDL on how to realign the TL. The main task for EDL will be to conduct a full Inventory of Losses for all 904 households in both Savannakhet and Saravan provinces (which is likely to require between 2-3 months work with approximately 20

people to conduct the survey). Mr. John Pilgrim also mentioned that the compensation for the villages will need to be done at least 2 months before construction and that the compensation budget will be based on a full Detailed Measurement Survey (DMS).

The temporary losses from the construction of the project will be more accurately determined when the IOL and DMS are completed. Mr. John mentioned that construction should be undertaken during the dry season and that the work be conducted according to a timetable (in consultation with the farmers) in order to minimize the impact on land. He also mentioned that in the past transmission line projects have had less financial support, and so the project will require assistance from the communities and other relevant sectors. The impact of the project will not push anyone into poverty (with the exception of a few groups). The RAP can add value to the communities in the project area and ESL proposes that financial support for village funds, Lao language learning for ethnic minorities, literacy, mother-child health care, agricultural learning, and financing of provincial HIV/AIDS programs (awareness and prevention) be undertaken. Mr. John also highlighted the risk of HIV/AIDS from the contractors that are brought in during construction.

Mr John then discussed the methodology employed by ESL and explained that the study that was carried out in order to establish the social feasibility of the project and that the surveys were not conducted at 100%. This will later be necessary. ESL has studied the impact of TL on farmers' lands and conducted interviews with affected households. Although little adverse social impact is expected from the project, some people may not be satisfied with the compensation received and may have grievances. Registration of complaints and grievances can be done at the district and provincial level, but where possible should be settled at the local level. A monitoring program will be implemented and EDL and WREA will be responsible for the monitoring and implementation of the RAP. An independent agency will also be appointed for monitoring.

5. Questions and answers:

- Mr. Thongxay Voutthisavath from Department of Energy and Mine Saravan Province, raised the following few points:
 - Table 8.2 requires clarification regarding the data on impacted households and explanation of "Settlement within ROW" Y/N
 - The differences in compensation rates.

- Mrs. Phouthone Phalagnok, said that there will be a full detailed survey in order to clarify all the impacts from the project.
- Mr. John Pilgrim mentioned that the rates will be derived through consultation, for example consultation with provincial authorities, before more precise rates are determined. He stressed that the rates in the report are estimates only and that the study conducted so far was aimed at finding out the general size of the impact. Further study will need to be undertaken to determine the compensation rates and obtain accurate figures (e.g for Table 8.2).
- Mr. Noupahn Mahaphonh, the director general of the central Land Management Authority, gave a few comments for the project:
 - As there will be temporary impacts during the construction period (for example on agriculture lands, irrigation, fish ponds and access roads), EDL and other relevant organizations should either make improvements or at least ensure things are same or better as before.
 - There may be problems in regards to buying and selling new land in the TL alignment as this has happened in other projects before.
 - The selected TL routes should not be changed as there are already done for inventory detail survey.
- Mr. Dethsuvanh Malaythong, EDL Saravan, commented that this project is quite rushed, so it needs communities to cooperate with the Lao government and other relevant organisations in order for the project to be successfully completed. In addition, he mentioned that the substation has been changed the Nongsano switching station to Tao Tharn 2 sub-station. The total area is 3 ha.

6. Meeting closed

17.15 pm

Mr. Bounthavy Ladsasima closed the meeting.

Savannakhet Workshop: ESL Director Presents the Draft IEE



Savannakhet Workshop: Questions from the Audience



Savannakhet Workshop: Group Photo



Saravan Workshop: Welcome from Saravan Government



Saravan Workshop: ESL Resettlement Expert takes questions from the audience



Saravan Workshop: Group Photo



Savannakhet Workshop Attendance

(See Annex 2 for English list of participants)

ຈັດຂຶ້ນທີ່ ຫ້ອງປະຊຸມ EDL ແຂວງ ສະຫວັນນະເຂດ, ວັນທີ 05/8/ 2009

ລາຍຊື່ຜູ້ເຂົ້າຮ່ວມກອງປະຊຸມ

ລຳດັບ	ລາຍຊື່ ແລະ ນາມສະກຸນ	ຈາກພາກສ່ວນ (ກະຊວງ/ບໍລິສັດ/ອົງການ)	ໜ້າທີ່ຮັບຜິດຊອບ	ເບີຕິດຕໍ່	ໝາຍເຫດ
1	ທ. ສຸກຍະ ບຸກຄະລາກອນ	ກົມໂຮງຮຽນ (ກະຊວງກະສິກໍາ ແລະ ກະສິກໍາສັງຄົມ)	ຫົວໜ້າ 2:1007 GIS	5449393 2081008	
2	ທ. ບຸນຍຸດ ບຸກຄະລາກອນ	ບໍລິສັດ ສະຖຽນ ສະຖຽນ (ບໍລິສັດ)	ສະຖຽນ ສະຖຽນ	2407009	
3	ທ. ພອນ ສິນທິ	ບໍລິສັດ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	1706848	
4	ທ. ຫິມມະ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2243184	
5	ທ. ອິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2316194	
6	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5642254	
7	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	9801563	
8	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5824056	
9	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2413358	
10	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2455669	
11	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2608589	
12	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5440018	
13	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5640469	
14	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2817609	
15	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5541719	
16	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5642062	
17	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	5642236	
18	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	✓	
19	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	2633536	
20	ທ. ສິນທິ ສິນທິ	ອົງການ ສະຖຽນ ສະຖຽນ	ສະຖຽນ ສະຖຽນ	3323406	

21	ស៊ុន ហួង ឈន់រុក្ខា	សិស្ស បរិស្ថាន	6156907	
22	ស៊ុន ហួង	ស្រី	9622889	
23	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	5863295	
24	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	5966189	
25	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	5861035	
26	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	2049635	
27	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	5231090	
28	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	2614152	
29	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	6733797	
30	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	5634362	
31	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	2606612	
32	ហ៊ុន ធីតា ឈន់រុក្ខា	សិស្ស បរិស្ថាន	2206749	
33	Ms. Mayumi GOTO Environmental Specialist	JICA Study Team	422-3097	
34	Miss. Vengvilay ESL	consultant	413723	
35	Gwendoline Ntoumos ESL	consultant	413723	
36	BANDITH Chamthavong ESL	Bandith	0207895700	
37	Boua Vong LUANG KHOT ESL	Consultant	0207709191	
38	Khutpa Khom ESL	Director	0205516071	
39				
40				
41				
42				
43				
44				
45				

Initial Environmental Examination
Transmission lines Interconnection Project in the Central and Southern Provinces of LAO PDR

At EDL Savannakhet Office, date: 05/08/2009

No.	Name and Surname	Organization / Sector	Responsibility	Phone Number
1	Mr. Soukhan BOUNTHABUNDITH	Ministry of Agriculture and Forestry	Director of GIS Department	5448393
2	Mr. Bounthan NHANTHABHANYA	Ministry of Hydropower and mine	Academic matter	2407009
3	Mr. Phonevilay KEOBOUNSONE	Savannakhet province of office	Deputy Director	7706848
4	Mr. Kongsy PHASYSONBATH	Land Management Agency of province	Deputy Director of Administration	2243184
5	Mis Vayouvet VIXAYSOMBOUN	Water Research and Environment Office	Director of Environmental Department	2316194
6	Mr. Xaysavhan OUTHOUTA	Agriculture and forestry office of kaysone District	Official Director	5642754
7	Mr. Bounphan MAHAPHON	National land management Agency	Director of policy Department	9801563
8	Mr. Buthjar	Land Management Agency of sonkone District	Academic matter	5864056
9	Mr. Boun jeng KEOVILAYVHAN	Lao hydropower office	Official Director of Planing	2413358
10	Mr. Arnosith PILAVHAN	Lao hydropower office	Staff of Environmental Office	2455669
11	Mr. Lumgnet thongsy ORSONE	Jumphone District	Governor	2608589
12	Mr. Chanthalay SITHITANONGSY	kaysone District	Deputy Governor	5440018
13	Mr. Koeoukdone	sonkone District	Deputy Governor	5640469
14	Mr. Soukashan SANAVONG	xaypouthong District	Governor	2317609
15	Mr. Soulivong SENKOE	Lao hydropower	Deputy Director	5541719
16	Mr. Poukong MAMHACHACK	Hydropower and Mine	Staff	7642062
17	Mr. Bounyor MAZANA	Department of Agriculture and forestry	Deputy of forestry Department	5614236
18	Mr. Bounkarth	Thahuaoxang village	Deputy Chief	-
19	Mr. Chidravong	Land office of kaysone District	Staff	2633536
20	Mr. Poukham	Nasouti village	Chief of village	3343406
21	Mr. Lung	Donexath village	Chief of village	6156907
22	Mr. Bounzu	Donexath village	Deputy chief	2622887
23	Mr. Khamdy PIMHASONE	Nonesomboun village	Chief of village	5863295
24	Mr. John KHATIVONG	Nonzomboun village	Chief of village	5966139
25	Mr. Chantha	Khamsensay village	Chief of village	5861035
26	Mr. Thongza	Land office of Jumphone District	Deputy Director	2049635
27	Mr. Bounlung	Agriculture office of Jumphone District	Official Director	5231019
28	Mr. Sengsavan	Agriculture office of xaypouthong District	Official Director	2614152
29	Mr. Kiengscak	Agriculture office of songkone District	Official Director	6733797
30	Mr. Daikeo SENGPACHANH	EMV of savannakhet Hydropower	Academic matter	5634362
31	Mr. Pethsomphone	Land office of xaypouthong District	Official Director	2606612
32	Mis Pouthone PASAYOG	Enviromental office	Deputy Director	2206749
33	Ms. Mayumi GOTO	Enviroment specialist	JICA study team	4223097
34	Miss vongvilay	Earth System Lao	Consultant	021 43723
35	Miss Gwendoline NTOMOS	Earth System Lao	Consultant	021 43723
36	Mr. Bandith CHANTHAVONG	Earth System Lao	GIS	78-99700
37	Mr. Bouavong LUANGKHOT	Earth System Lao	Consultant	770-919-1
38	Mr. Nanong KHOTPATHOUM	Earth System Lao	Director	5516071

Saravan Workshop Attendance

(see Annex 2 for English list of participants)

ການປະເມີນຜົນກະທົບເບື້ອງຕົ້ນ ທາງດ້ານສິ່ງແວດລ້ອມ (IEE) ສຳຫຼັບ ໂຄງການເຊື່ອມຕໍ່ສາຍສົ່ງ ຢູ່ພາກກາງ ແລະ ພາກໃຕ້ ໃນ ສປປ ລາວ
ຈັດຂຶ້ນທີ່ ຫ້ອງປະຊຸມ EDL ແຂວງ ສາລະວັນ, ວັນທີ 06/08/ 2009

ລາຍຊື່ຜູ້ເຂົ້າຮ່ວມກອງປະຊຸມ

ລຳດັບ	ລາຍຊື່ ແລະ ນາມສະກຸນ	ຈາກພາກສ່ວນ (ກະຊວງ ບອກລະອຽດ)	ໜ້າທີ່ຮັບຜິດຊອບ	ເບີໂທລະສັບ	ໝາຍເຫດ
1	ອຸໜີ ວິຈິດ	ພະນັກງານ	ຊາຍ ພາຍ	2278942	ມັດ
2	ທາ. ພິລະສິດ	ພະນັກງານ	ອ. າ ພິລະສິດ	5637098	ມັດ
3	ອາ. ພູມສິດ	ອຸໜີ ວິຈິດ	ນາຍ ພາຍ	2278530	ອາ. ພູມສິດ NO.
4	ອາ. ພູມສິດ	ພະນັກງານ	ນາຍ ພາຍ	5370448	ອາ. ພູມສິດ NO.
5	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5489258	ອາ. ພູມສິດ NO.
6	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	8077111	ອາ. ພູມສິດ NO.
7	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	2244748	ອາ. ພູມສິດ NO.
8	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5448260	ອາ. ພູມສິດ NO.
9	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5448491	ອາ. ພູມສິດ NO.
10	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5731246	ອາ. ພູມສິດ NO.
11	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	2281230	ອາ. ພູມສິດ NO.
12	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5718364	ອາ. ພູມສິດ NO.
13	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	928.3335	ອາ. ພູມສິດ NO.
14	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	9920078	ອາ. ພູມສິດ NO.
15	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ		ອາ. ພູມສິດ NO.
16	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5648342	ອາ. ພູມສິດ NO.
17	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	989563	ອາ. ພູມສິດ NO.
18	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	2413358	ອາ. ພູມສິດ NO.
19	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	5748651	ອາ. ພູມສິດ NO.
20	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	2282225	ອາ. ພູມສິດ NO.
21	ທາ. ພິລະສິດ	ພະນັກງານ	ອຸໜີ ວິຈິດ	2206749	ອາ. ພູມສິດ NO.

ລຳດັບ	ລາຍຊື່ ແລະ ນາມສະກຸນ	ຈາກພາກສ່ວນ (ກະຊວງ ຫຼື ອົງການອື່ນ)	ໜ້າທີ່ຮັບຜິດຊອບ	ເບີຕິດຕໍ່	ໝາຍເຫດ
22	ທ. ດາວສິດສິດສິດ ພິພິດ		ພ/ງ ບຸກຄົນສິ່ງແວດລ້ອມ	24558669	
23	ທ. ບາດສິດສິດ ພິພິດ (ສວ)		ຊຸກຍູ້ພັດທະນາ	5548068	
24	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອົງການ	5949718	
25	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ມີ ແລະ ສິ່ງແວດລ້ອມ	5759426	
26	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອົງການ	5748473	
27	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່ (ບໍລິສັດ)		ບຸກຄົນ 2-ໂພງ GIS	5448399 8081008	
28	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່ (ບໍລິສັດ)		ອົງການ	2207009	
29	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນ	5432617	
30	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ອົງການອື່ນ	2288090	
31	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອື່ນ		NO
32	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອື່ນ		NO
33	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອື່ນ		NO
34	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອື່ນ	2204838	NO
35	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່				
36	ທ. ບຸນລຽນ ບໍລິສັດ ອົງການຄຸ້ມຄອງພື້ນທີ່		ບຸກຄົນອື່ນ	5166198	OK.
37	Gwendoline NToumas	Earth Systems Lao	Consultant	413723	
38	Vongvilay	ESL	consultant	021 413723	
39	Bandith	ESL	GIS	0207899700	
40	Bouavong HANUKHOT	ESL	Consultant	0207709191	
41	Nanong Khutpathanon	ESL	Director	0205576271	
42					
43					

**Initial Environmental Examination
Transmission lines Interconnection Project in the Central and Southern Provinces of LAO PDR**

At EDL Saravanh Office, date: 06/08/2009

No.	Name and Surname	Organization / Sector	Responsibility	Phone Number
1	Mr. Somjay	Nongkor vilage	Chief of village	2278942
2	Mr. Balamy	Network Department	Director	56390-98
3	Mr. Noudone	Donkor village	Chief of village	2278730
4	Mr. Poumy	Mouane village	Chief of village	5370448
5	Mr. Bouagnue	Land of vabeen district	Academic matter	5489-258
6	Mr. Keooukdone	Vapi district office	Academic matter	5077142
7	Mr. Sangvam	Environmental Hydropower	Director of Administration	2244348
8	Mr. Thongsoon	Environmental Hydropower	Director of Environmental center	5448280
9	Mr. Lungsy	Nakonepheg district of office	Deputy Director	54484-91
10	Mis Khamma	Land Managemnt Agency of district	Deputy Agency	5731246
11	Mr. Khamparn	Environmental Hydropower	Academic matter	2281230
12	Mr. Llurnsamai	Saravanh Hydropower	Deputy Department	5718364
13	Mr. Poumy orlathai	Songkone District	Deputy District	2283335
14	Mr. Sengdam	Agriculture	Deputy Office	9930075
15	Mr. Jonh	Earth System Lao	RAP Specialist	-
16	Mr. Bounsom	Hydropower	Director of Technicality Department	5648342
17	Mr. Bounthan MAHAPHON	Land Managenent Agency	Official Director	9801563
18	Mr. Bounjeing KEOVILAI	Lao Hydropower Office	Official Director of Planing	2413358
19	Mr. Tongxay BOUNTISAVATH	Department of Hydropower and Mine	Deputy Director	5748651
20	Mr. sangthong EINTHABADE	Department of Hydropower and Mine	Deputy of Promote Energy	2282225
21	Mr. pouthone PARAYARG	Lao hydropower	Deputy of Environmental office	2206749
22	Mr. Amosith PILAVONG	Environmental Hydropower	Environmental staff	2455669
23	Mr. Dethsouvanh MALAITHONG	Environmental Hydropower	Deputy Director	5548065
24	Mr. Bounlep BORLISUTH	Land managenent Agency	Deputy Agency	5949718
25	Mr. Beging KONCHANHTHA	Land managenent Agency	water and Environment	575-9426
26	Mr. Nouxay LUNDAVONG	Agriculture and forestry of District	Official Director	5748473
27	Mr. Soukhanh BOUNTHABUNDITH	Department of forestry	Director of GIS Department	5448393
28	Mr. Bounthan NHANTHABUNYA	Department of mine	Academic matter	2407009
29	Mr. Bounthavee	Saravanh district of office	Director	5432617
30	Mr. Xayasith	Saravanh district of office	Deputy Director of Administration	2288090
31	Mr. Khamseng	Phonpeng	Chief of village	-
32	Mr. Khampoumy	Maisivilay	Deputy chief of village	-
33	Mr. Khamlay	Tongnoy	chief of tongnoi village	-
34	Mr. vithaya ZINDRAVONG	Water research and Environment office	Director of institute	2704838
35	Mr. sithtixay	Saravan TV	-	-
36	Mr. Symone SINTHAVONG	Land managerment Agency of province	Director of Information	-
37	Miss Gwendoline NTOMOS	Earth System Lao	Consultant	021 43723
38	Miss Vongvilay	Earth System Lao	Consultant	021 43723
39	Mr. Bandith CHANTHAVONG	Earth System Lao	GIS	78--99700
40	Mr. Bouavong LUANGKHOT	Earth System Lao	Consultant	770-919-1
41	Mr. Nanong KHOTPATHOUM	Earth System Lao	Director	5516071



Appendix 4 – Environmental Checklist

Environmental Check List

Project Name: _____

Date of Monitoring: ____/____/____

How many staff/workers: _____, Equipments: _____ (the contractor is required to submit lists of their staff/workers and equipments used for performance of construction activities)

Issues	Comments	Action to be taken
I. Forest and bushes clearing along the TL ROW		
1. Are trees and bushes clearing disposed to areas permitted by Authorities concerned?		
2. Is there herbicides used to control vegetation along ROW?		
3. Is there any burning to clear and control vegetation along ROW?		
4. Have high commercial tree species been marked and cut before ROW clearing? (this will be undertaken by Forest Clearing Committee, District Forestry Unit and land owners to list and mark big trees or commercial tree species).		
5. Is vegetation debris from ROW/Substation clearances stacked outside area of the ROW/Substation properly and burnt off?		

Issues	Comments	Action to be taken
II. Site worker camps and other facilities		
6. Are all site workers accommodated in the provided camps? (No other accommodation of workers will be permitted).		
7. Are temporary site worker camps located along the proposed road ROW?		
8. Is there any impact on watercourse or stream water quality (water pollution) caused by temporary site worker camps located along the proposed road ROW?		
9. Are the camp sites and surrounds kept in a tidy and clean manner?		
10. How many rubbish bins are there at the camp sites _____? Is it adequate number for general litters and rubbish?		
11. Are workers provided with portable water supply and/or water tank and secure?		
12. Is waste/rubbish collection done and taken to a managed waste disposal facility regularly?		
III. Construction of Access Road and steel Towers, including transportation of all materials		
13. Is construction carried out		

Issues	Comments	Action to be taken
during dry (non-farming) season? when was construction of access road started?		
14. Is there any disruption to assets and/or production activities caused by construction of access road? Yes or No. (what kind of disruption? How significant?)		
15. Has the compensation been made fairly to affected people?		
16. Does the contractor provide proper drainage system in harmony with natural drain?		
17. Disposed off sump oil properly? Yes or No. washed down of oil into water bodies?		
18. Is transportation of material done according to time allowed (from 7.00AM to 6.00PM)?		
19. Does the contractor post warning signs and managing traffic to protect the traveling public and its workers?		
IV. Dust emission		
20. Does the contractor spray water in dry and windy conditions on the local road where the trucks pass through?	No _____ Yes (_____ times per day)	
V. Noise (civil works)		
21. Daytime working (from 7.00AM to 6.00PM), not exceeding the noise limit especially in		

Issues	Comments	Action to be taken
nighttime. Nighttime, in principle, means from 9.00PM to 6.00AM. Principally, working will not be allowed at nighttime: meet the standard?		
22. Daytime working (from 7.00AM to 6.00PM), not exceeding the noise limit especially in nighttime. Nighttime, in principle, means from 9.00PM to 6.00AM. Principally, working will not be allowed at nighttime: meet the standard?		
VI. Interference with other infrastructure during construction and transportation of material		
23. Does the contractor post warning signs and managing traffic to protect the traveling public and its workers?		
24. In the event that stringing conductor presents a possible risk to the houses, community center, and to traffic on public roads or rivers, are the bamboo scaffolds constructed across the roads and rivers to protect pedestrians, vehicles, boats (and the conductor itself) from potential injury/damage during conductor stringing?		
25. In the event that blasting for		

Issues	Comments	Action to be taken
access road and tower foundation construction presents a possible risk to the houses, community center, and to traffic on public roads or rivers, are warning signs and warning system posted to protect pedestrians, vehicles, boats (and the conductor itself) from potential injury/damage during conductor stringing?		
26. Is there any case of overweight material occurred during transportation that damages the weaker roads and/or bridges where necessary to temporarily reinforce?	Yes or No, how many ?_____, where?_____	
VII. Health and safety; Injury and sickness of workers and members of the public		
27. Does the Contractor prepare a health and safety plan?	Yes or No (the contractor is required to submit the plan).	
28. Have the workers been screening of health and provided with health and safety training sessions?		
29. Necessary safety tools such as helmets, working shoes, ear protection, dust filter and others are provided for site workers adequately?		
VIII. Encroachment into farmland,		

Issues	Comments	Action to be taken
loss of agricultural land and productivities		
30. Are affected farmers/villagers properly compensated for loss of agricultural land and productivities?		
IX. Encroachment into industrial tree plantation areas, loss of planted trees		
31. Are affected farmers/investors properly compensated for loss of planted trees?		
X. Historical, cultural and archeological property		
32. Is there any historical, cultural or archeological asset found during excavation? If yes, how do the contractors take an action of informing agency concerned?		
33. Sitting the TL and Tower away from such areas. If unavoidable by way of alignment position, does the contractor site the tower outside i.e. at each end? Yes or No, how does the contractor take procedure?		
XI. Encroachment into Temple or village cemetery		
34. Is there any encroachment into the temple or village cemetery occurred? Yes or No. Is the compensation made to the village properly?		

Issues	Comments	Action to be taken
XII. Electro-magnetic field		
35. Does the contractor's work meet the Safety Clearance to Live Conductor for 230 kV and 500 kV; minimum clearance distance (meter)? Yes or No, (see annex 1&2 below for reference)		
XIII. Other issues		
36.		
37.		

Appendix 5 – Environment Management Plan



See standalone document



Appendix 6 – Resettlement Action Plan



See standalone document