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SECTION A. PROJECT DESCRIPTION

A. 1. Title of the project activity

Title: Nam Ngao Hydropower Project

Date: 29/05/2015

Version no.: 02

A. 2. Project eligibility under the Gold Standard

Project is eligible for GS as it fulfils following criteria:

a) Scale of project activity

This project is a large-scale project. The capacity of the project is 15MW.

b) Host country or state

The project is located in Lao PDR which is one of the eligible states for Gold Standard CDM projects. Also, Lao PDR is a LDC¹ and LLDC² published by UN.

c) Type of project activity

The Project is a Renewable Energy Supply Project that generates and delivers energy from non-fossil and non-depletable energy source (hydro power).

Furthermore, as a hydropower project,

- The project is not located in a High Conservation Value (HCV) area, therefore it is eligible under the Gold Standard.
- The Environmental Impact Assessment Report (EIAR) has addressed the following issues sufficiently:
 - i) Competing use of water
 - ii) Minimal Ecological Flow
 - iii) Groundwater level
 - iv) Fish Passage Effectiveness
 - v) Sediment Management
 - vi) Soil Erosion
- One-day training for the hydropower plant staff will be conducted on the different issues

d) Greenhouse gases

Among the greenhouse gases eligible under the Gold Standard, this project is reducing Carbon Dioxide (CO₂).

e) Official Development Assistance (ODA)

This project is eligible for Gold Standard registration because it does not receive any ODA funding. The ODA declaration has been signed and will be provided to GS registry.

f) Project timeframe

¹ <http://unohrrls.org/about-ldcs/>

² <http://unohrrls.org/about-ldcs/country-profiles/>

The project is not previously announced to be going ahead without the revenues from carbon credits, and the project will undergo “Previous announcement check”.

g) Other Certification Schemes

The project has not applied or is seeking for any other certification scheme, therefore no double counting will occur and therefore it is eligible under the Gold Standard.

A. 3. Current project status

Currently, the project has not started yet, the Project Owner is currently in the construction preparing stage, the IEE report and FSR report have been finished and approved. The CDM prior consideration form has been submitted to UNFCCC.

SECTION B. DESIGN OF STAKEHOLDER CONSULTATION PROCESS

B. 1. Design of physical meeting(s)

i. Agenda

Considering the Project is located at remote area with poor transportation condition, the Local Stakeholder Meeting for Nam Ngao Hydropower Project was held at two different places separately. One was held in Vientiane at 2:00 pm Mar 20th 2015 (Friday) for government officer, NGOs, experts, etc., the other one was held in Working Camp of the project at 2:00 pm on Mar 23rd 2015 (Monday) for local residents surrounding the project site. If NGO was interested, they could attend both of the meetings. The meetings were organized in line with the Gold Standard requirements, and the meetings’ agenda is the same exactly.

Agenda

- Registration
- Welcome remarks
- Introduction of Participants
- Project Overview and introduction
- Break
- Questions and Answers
- Introduction of the Gold Standard and its procedures
- Questions and Answers
- Discussion on continuous input / grievance mechanism
- Break
- Open discussion (All stakeholders are invited to give their comments, critics and support concerning the project)
- Declared the meeting closed

ii. Non-technical summary

Non-technical summary in Laotian:

ສັງຄົມຂັ້ນ ທີ່ບໍ່ແມ່ນ ທາງດ້ານ ຕັກກິກຂອງ ໂຄງການ ເຂື່ອນໄຟຟ້າ ຖ້ຳນ້ຳງາວ

ໂຄງການເຂື່ອນໄຟຟ້ານ້ຳງາວແມ່ນໂຄງການໄລຍະ ຂອງການນໍ້າໄຟຟ້ານ້ຳຕົກ ທີ່ຕັ້ງຢູ່
ໃນບົດຂອງນ້ຳນໍ້າ ງາວໃນແຂວງພາກເໜືອຂອງແຂວງບໍ່ແກ້ວຂອງສ. ບ. ບ. ລາວ.
ໂຄງການໄດ້ວາງແຜນທີ່ຈະ ໄດ້ຮັບການ ປະຕິບັດໂດຍພະລັງງານໄຟ ໂຄງການຈະຫັນນໍ້າຂອງນ້ຳນໍ້າ
ໃນການ ຜະລິດ ໄຟຟ້າເພື່ອພະລັງງານຕາຂ່າຍໄຟຟ້າພາຍໃນປະເທດປະກອບສ່ວນດັ່ງນັ້ນຈຶ່ງກັບໄຟຟ້າ
ພາຍໃນປະເທດໄດ້. ການຕິດຕັ້ງຄວາມອາດສາມາດທັງໝົດຂອງໂຄງການແມ່ນ 15 ເມກາວັດ.



ກໍລັງຕິດຕັ້ງທັງຫມົດເທົ່າກັບ 15 ເມກາວັດ, ຈະບໍ່ມີແຫຼ່ງກຳເນີດມີນລະພິດເກີດຂຶ້ນໃນໄລຍະການ
ກໍ່ສ້າງ ແລະ ປະຕິບັດງານຂອງໂຄງການ, ເຂື່ອນເກຣລິດໄຟຟ້າຂະໜາດນ້ອຍເປັນໂຄງການທີ່ມີມີນລະພິດ
ລະຫນ້ອຍທີ່ສຸດຕໍ່ສິ່ງແວດລ້ອມ ແລະ ປະຊາຊົນທ້ອງຖິ່ນບໍ່ມີແຕ່ລ່ວງມີນລະພິດທີ່ຮ້າຍແຮງທີ່ໄດ້ກ່າວຄະ
ເ ໄວ້ໃ ໄລຍະກາ ກໍ່ສ້າງ ແລະ ຫລັງຈາກ ປ່ຽ ແປງພະລັງງາ ິ ມາເປັ ພະລັງງາ ໄຟຟ້າ
ກະແສນຳໄຫລຈະມີການຄຸ້ມຄອງຊຶ່ງປັດສະຈາກມີນລະພິດຕ່າງໆ. ໃ ໄລຍະກາ ກໍ່ສ້າງທຸກລະບຽບກາ
ທີ່ກ່ຽວກັບການປ້ອງກັນຄຸນນະພາບອາກາດຈະຕ້ອງມີກາ ຕິດຕາມ. ວັດສະດຸແຂງ ແລະ ວັດສະດຸແຫລວ
ທີ່ເປື່ອນເປັ ໃນໄລຍະເວລາການກໍ່ສ້າງ ແລະ ກາ ຄຸ້ມຄອງ ຳໃຊ້ໂຄງກາ ຈະຕ້ອງລວບລວມ ແລະ
ປາບັດຮັກສາໂດຍອົງໄສຂໍ້ກຳົດກົດຫມາຍລະບຽບການທີ່ກ່ຽວຂ້ອງກ່ອນຈະນຳໄປຕັ້ມ. ອີກປະກາ
ຫຍັງຄວາມສະອາດ ແລະ ຄວາມຫມັ້ນຄົງໃນການສະໜອງກະແສໄຟຟ້າຈະເປັ ຈົງຫລັງຈາກໂຄງກາ
ຈະໄດ້ເລີ້ມຕັ້ ກໍ່ສ້າງໃ ມ່າງນີ້.

ໂຄງການ ຈະສະເໜີ ໂຄງການ ຫຼຸດຜ່ອນ ການ ປ່ອຍອາຍພິດ ເຮືອ ແກ້ວ, ໂກ ດໍ ສະແຕ ດາດ (GSI) ຊຶ່ງເປັນ ລາງວັ ຊະ ະເລີດສຳຫລັບໂຄງການ ການ ຫຼຸດຜ່ອນ ການປອ ແລະ ໄດ້ຖືກຍອມຮັບ ຈາກອົງການຈັດຕັ້ງສາກົນ ຊຶ່ງເປັນເກນມາດຕະຖານສຳຫລັບຄຸນນະພາບ ແລະ ເຂັ້ມງວດໃນທັງຫາງ ດ້ານ ການ ຍອມປະຕິບັດຕາມ ແລະ ດ້ວຍຄວາມສະມັກໃຈຂອງຕະຫລາດການປອ .

ອີງກາ ໂກ ດ໌ ສະແຕ ດາດ ໄດ້ຈັດຕັ້ງໂຄງຮ່າງ ແລະ ຕິດຕາມມາດຕະຖານ ທີ່ຖືກລະບຸຈາກ ສັ ບາ ກຽວໄຕ (ປະເທດຍີ່ປຸ່ນ) ກ່ຽວກັບການສາກົນຂອງການຫຼຸດຜ່ອນມົນລະພາວະ, ສຳລັບການຄຸ້ມຄອງ ແລະ ອະນຸມັດຢັ້ງຢືນທີ່ທາງໂຄງການໄດ້ປະຕິບັດມາ. ໃບຢັ້ງຢືນດັ່ງກ່າວຈະຖືກຮັບ ຮອງຈາກ ບໍລິສັດ ແລະ ອົງການຈັດຕັ້ງສາກົນ ທີ່ໄດ້ມີການຄົ້ນຄ້ວາ ແລະ ມອບລາງວັນ ໃຫ້ແກ່ຄວາມອາ ສາສະໝັກດ້ວຍຕົ ເອງ

ໂຄງການ ກໍ່ສ້າງເຂື່ອນຜະລິດໄຟຟ້າ ນ້ຳງາວ ຈະສຳເລັດໄດ້ດ້ວຍກາ ຢັ້ງຢືນຈາກ ອົງກາ ໂກ ດ໌ ສະແຕນດາດ ທີ່ກ່າວໜ້າໄປສູ່ກາ ສ້າງລາຍຮັບເພີ່ມສຳລັບໄລຍະສັດຕະວັດໄຟຟ້າສະອາດ, ເຊິ່ງ ຈະ ຳ ໄປສູ່ໂຄງກາ ທີ່ຍີ ຍິງ.

ອົງກາ ໂກ ດ໌ ສະແຕ ດາດ ຈະຖືກຮັບຮູ້ ແລະ ຳ ໃຊ້ ໃ ປະ ເທດທີ່ບໍ່ມີລາຍຊື່ ໃ ໂຄງກາ ຫຼຸດ ຜ່ອ ກາ ປ່ອຍອາຍພິດເຮືອ ແກ້ວທີ່ໄດ້ຖືກກຳ ັດໄວ້ ສັ ບາ ກຽວໄຕ (ປະເທດຍີ່ປຸ່ນ).

Non-technical summary in English:

The Nam Ngao Hydropower project is a run-of-river hydropower project located on the mainstream of Nam Ngao river in the northern province of Bokeo of Lao PDR. The project is planned to be implemented by Heuangpaseuth Hydropower Co., Ltd. The project will divert the water of the Nam Ngao River to generate electricity to local power grid thus contribute to the local electrification. The total install capacity of the project is 15 MW.



No significant pollution source is anticipated during the construction and operation of the project. Small Hydropower plants are the projects with minimal impact on environment and local people. No environmental harmful emission is expected during the operation period. After the conversion of potential energy of water to electrical energy the water flow will be maintained without any pollution. During the construction all regulations regarding protection of air quality will be followed. Any solid and liquid wastes formed during the construction and operation of the plant will be collected and treated in accordance with relevant regulations before discharging. On the other hand, clean and stable power supply would be realized after the project start operation in the near future.

The project will apply for the Gold Standard-CDM project. The Gold Standard (GS) is an award winning certification standard for carbon mitigation projects and is recognized

internationally as the benchmark for quality and rigor in both the compliance and voluntary carbon markets. The Gold Standard organization sets a framework –following the schemes defined by the Kyoto-Protocol for the international trading of emission reductions – for the generation and trading of certificates attesting emission reductions achieved by a project. These certificates are purchased by foreign companies and organizations who intend to voluntarily compensate own emissions. Nam Ngao Hydropower Project shall be realized with the help of the Gold Standard approach that leads to an additional income for the clean electricity generation and thus makes the project economically viable. The Gold Standard CDM approach is applicable in countries that are not subject to a GHG emission target defined in the Kyoto-Protocol.

iii. Invitation tracking table

Category Code	Organization (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
A	Leader& Officer of Village organization	Anonymous	Bulletin or oral notice	6/3/2015	Y
A	Leader& Officer from Council of village Elder	Anonymous	Bulletin or oral notice	6/3/2015	Y
A	Leader& Officer from village women's organization	Anonymous	Bulletin or oral notice	6/3/2015	Y
A	Local villagers	Anonymous	Bulletin or oral notice	6/3/2015	Y
B	Officials of local government	Anonymous	Email	6/3/2015	Y
E	Gold Standard	Anonymous	Email	6/3/2015	N
F	Global Association for People and the Environment	Anonymous	Email	6/3/2015	Y
C	Lao DNA	Anonymous	Email	6/3/2015	Y
F	REEEP	Anonymous	Email	6/3/2015	N
F	Mercy Corps	Anonymous	Email	6/3/2015	N
F	WWF	Anonymous	Email	6/3/2015	N
F	Global Environmental Institute (GEI)	Anonymous	Email	6/3/2015	N
F	Green Peace	Anonymous	Email	6/3/2015	N
F	Care International	Anonymous	Email	6/3/2015	N

F	Citizens's Alliance for Saving the Atmosphere and Earth (CASA)	Anonymous	Email	6/3/2015	N
F	Clean Energy Nepal	Anonymous	Email	6/3/2015	N
F	Climate Action Network South Africa	Anonymous	Email	6/3/2015	N
F	David Suzuki Foundation	Anonymous	Email	6/3/2015	N
F	Development Alternatives	Anonymous	Email	6/3/2015	N
F	Earth Advantage, Inc.	Anonymous	Email	6/3/2015	N
F	EnerGHG India	Anonymous	Email	6/3/2015	N
F	Energy Forum	Anonymous	Email	6/3/2015	N
F	Euronatura–Center for Environmental Law and Sustainable Development	Anonymous	Email	6/3/2015	N
F	European Business Council for Sustainable Energy e5	Anonymous	Email	6/3/2015	N
F	Fair Climate Network	Anonymous	Email	6/3/2015	N
F	Forum for the Future	Anonymous	Email	6/3/2015	N
F	Fundacion Ecodiversidad Colombia	Anonymous	Email	6/3/2015	N
F	Zero: Regional Environment Organisation	Anonymous	Email	6/3/2015	N
F	The Climate Group (China)	Anonymous	Email	6/3/2015	N
F	Renewable Energy & Energy Efficiency Institute	Anonymous	Email	6/3/2015	N
F	Philippine Solar Energy Society	Anonymous	Email	6/3/2015	N
F	A World Institute for a Sustainable Humanity (A W.I.S.H)	Anonymous	Email	6/3/2015	N
F	The Whitmore Initiative Society	Anonymous	Email	6/3/2015	N

F	The Environmental Investigation Agency	Anonymous	Email	6/3/2015	N
F	SouthSouthNorth	Anonymous	Email	6/3/2015	N
F	SolarAid	Anonymous	Email	6/3/2015	N
F	SKG Sangha	Anonymous	Email	6/3/2015	N
F	Sibol ng Agham at Teknolohiya	Anonymous	Email	6/3/2015	N
F	Shanshui Conservation Center, China	Anonymous	Email	6/3/2015	N
F	PURE the Clean Planet Trust	Anonymous	Email	6/3/2015	N
F	Plantons Utile	Anonymous	Email	6/3/2015	N
F	Indonesian Climate Action Network	Anonymous	Email	6/3/2015	N
F	International Centre for Eradication of Poverty	Anonymous	Email	6/3/2015	N
F	Kangmei Institute of Community Development and Marketing	Anonymous	Email	6/3/2015	N
F	Kiko Network	Anonymous	Email	6/3/2015	N
F	KLIMA	Anonymous	Email	6/3/2015	N
F	Triangle Generation Humanitaire	Anonymous	Email	6/3/2015	N
D	Local independent consultant and expert	Anonymous	Email	6/3/2015	Y

Please explain how you decided that the above organisations/ individuals are relevant stakeholders to your project. Also, please discuss how your invitation methods seek to include a broad range of stakeholders (e.g. gender, age, ethnicity).

According to GS requirements and guidelines, we invited people from the following categories:

For category A~ E who are direct stakeholders of this project, were invited by bulletin or oral notice. They then had the choice to attend the meeting voluntarily. Stakeholders who followed an invitation by bulletin did not give formal confirmation of their participation at the meeting in advance, but confirmed their participation by their attendance.

For other categories, category F local government representatives, invitations were done by Email. For category H NGOs in Lao PDR/ international NGOs, category G GS experts and I for local independent consultant and expert (eg. faculty from local university)

invitations were sent by email.

iv. Text of individual invitations

The Laotian version individual invitation letter is given below:

ທ້ອງຖິ່ນມີສ່ວນຮ່ວມເຊີນປຶກສາຫາລື ນ້ຳງາວເຂື່ອນໄຟຟ້າ

ຮຽ : ທ່າ ແຂກຜູ້ມີກຽດທັງຫຼາຍ

ໂຄງກາ ເຂື່ອນໄຟຟ້າ ຈຳພາໃຫຍ່ຮາຍໂດຍພາວເວີ ເປີ ໂຄງກາ ກິ ໂກກາ ພັດທະ າສະອາດໂຄງກາ
ຫນຶ່ງຂອງອົງກາ ໂກ ລສະແຕ ດາດ.ກອງປະຊຸມສາມັນນີ້ໄດ້ຈັດຕັ້ງຂຶ້ນ ເພື່ອເກັບກຳຄວາມຄິດ
ເຫັນ ຂອງຜູ້ມີສ່ວນ ຮ່ວມກ່ຽວກັບ ກະທົບຂອງໂຄງກາ ຕາມມາດຕະຖານ ຂອງ ອົງກາ ໂກ ລສະແຕ
ດາດ.

ກອງປະຊຸມນີ້ຈະໄດ້ຈັດຂຶ້ນທີ່ໂຮງແຮມ ດີອ ລັ ພາເວຊໄ ຢູ່ 14:00 am ມີນາ 20 (ວັນສຸກ),
ໃນປີ 2015. ໃ າມຜູ້ຈັດຕັ້ງກອງປະຊຸມ ພວກເຮົາຍິ ດີຮັບຄຳແ ະ ຳ, ຄຳເຫັນ ແລະ
ຄຳເຕືອ ຈາກ ຜູ້ມີສ່ວນ ຮ່ວມໝົດທຸກທ່າ . ຈະມີພະແ ກແ ະ ຳຕົວ ແລະເກັບກຳຂໍ້ມູນ .
ພວກເຮົາຍິ ດີຮັບຕ້ອ ຖ້າທ່າ ມີຈຸດປະສົງເຂົ້າຮ່ວມ.

ຂໍສະແດງຄວາມ ັບຖື

ເບີໂທ: 00856-20-28190844

0086-10-84549953

The English version individual invitation letter is given below:

Dear Sir/Madam,

Nam Ngao Hydropower Project is a Gold Standard CDM candidate project. The physical meeting is to be held to collect opinions from stakeholders regarding the impacts from the project according to the requirement of Gold standard.

This meeting will be held at Don Chan Palace Hotel & Convention at 14:00 am March 20th (Friday), 2015, as the project participants, we humbly accept the advices, comments and

suggestion of all stakeholders, looking forward to your attendance. There will be an introduction and a comments collecting section. Your presence is welcomed.

Kind Regards

HOUANGPASERT Hydro Power Co., Ltd.

Contact Person: Mr Yaodong Lu

Mobile: 00856-20-28190844

South Pole Carbon Asset Management Ltd.

Contact Person: Ms Fang Qun

Telephone: 0086-10-84549953

v. Text of public invitations

The public invitation letter is given below:

Dear Sir/Madam,

Nam Ngao Hydropower Project is a Gold Standard CDM candidate project. The physical meeting is to be held to collect opinions from stakeholders regarding the impacts from the project according to the requirement of Gold standard.

This meeting will be held in the Working Camp of the project at 2:00 pm Mar 23th (Monday), as the project participants, we humbly accept the advices, comments and suggestion of all stakeholders, looking forward to your attendance. There will be an introduction and a comments collecting section. Your presence is welcomed.

Kind Regards

HOUANGPASERT Hydro Power Co., Ltd.

Contact Person: Mr Yaodong Lu

Mobile: 00856-20-28190844

South Pole Carbon Asset Management Ltd.

Contact Person: Ms Fang Qun

Telephone: 0086-10-84549953

B. 2. Description of other consultation methods used

If individuals and/ or entities (e.g. NGOs) are unable to attend the physical meeting, please discuss other methods that were used to solicit their feedback/ comments (e.g. questionnaires, phone calls, interviews).

All possible stakeholders were contacted via email, bulletin or oral notice. In the event that the stakeholders could not attend the physical meeting, the project proponents offered for the allowance of a representative to attend the meeting. Some national

agencies which have been informed as required by GS have not responded to the invitation since there is no regulation for voluntary market. In addition, the project proponents encouraged people to make inquiries or give comments on the project; the stakeholders could contact the Project owner or South Pole directly either via letter, email or telephone.

Since the consultation methods are assessed sufficient to reach stakeholders, no other method was not considered necessary.

SECTION C. CONSULTATION PROCESS

C. 1. Participants' in physical meeting(s)

i. List of participants

Participants list					
Date and time: 23/03/2015					
Location: Working Camp of the project					
Category Code	Name of participant, job/ position in the community	Male/ Female	Signature	Organisation (if relevant)	Contact details
A	LAYOI/Village Leader	Female		Nam Seud	
A	Chaichuon/General Village	Male		Nam Seud	
A	Chaman/Farmer	Male		Nam Seud	
A	Onchanh/Farmer	Male		Nam Seud	
A	Kham/Farmer	Male		Nam Liar	
A	Chandy/Farmer	Female		Nam Liar	
A	Phothong Cham/Farmer	Male		Nam Seud	
A	Khamphan/Farmer	Male		Nam Seud	
A	Oudom/Farmer	Male		Nam Seud	
A	Sonthaly/Farmer	Male		Nam Seud	

Participants list					
Date and time: 20/03/2015					
Location: Vientiane					
Category Code	Name of participant, job/ position in the community	Male/ Female	Signature	Organisation (if relevant)	Contact details
C	Phovong Luangxaysana/ Director	Male		DDMCC, MONRE	
C	Immala Inthaboualy/ Duputy of Division	Male		DDMCC, MONRE	

B	souvath sisoutham/ Technical	Male		Department of policy and Energy plan, MEM	
B	Chansavanh Keovixay / Technical	Female		Department of policy and Energy plan, MEM	
B	Khamman Sopraseuth/ Deputy Director of Division	Male		Renewable Energy Institute, MEM	
B	Bounthong Keohanam/ Division Director	Male		Department of Urban and Planning, MPWT	
B	Viengsommath/ Technical	Female		Department of Transport, MPWT	
B	Saiysamon Chansanga/ Director of Division	Male		Renewable Energy Institute, MOST	
B	Davone Thongphan/ Director of Division	Male		Faculty of Forestry Sciences, NUOL	
B	Aphavanh Manivanh/ Technical	Male		Vientiane Urban Development Administration Authority	
C	Oudomluck Chanthavong/ Technical	Male		Department of quality environment, MONRE	
C	Houmphaeng Bouphakham/ Director of Division	Male		Department of Forestry resources management, MONRE	
B	Phongeun Souvanhnavong/ Director of Division	Female		Institute of Public Work and Transport, MPWT	
B	Saengchan Phaxayyaseng/ Director of Division	Male		Department of Technology, MOST	

Comments accompanying Annex 1

ii. Evaluation forms

Name	What's your impression of the meeting?	What do you like about the project?	What do you not like about the project?	Signature
------	--	---	---	-----------

Oudom	Happy to attend the meeting	Positive	no	
Phothong Cham	Happy to attend the meeting	Positive	no	
Chandy	Happy to attend the meeting	Positive	no	
Chaman	Happy to attend the meeting	Positive	no	

Please attach original evaluation forms (in original language) as Annex 2.

Comments accompanying Annex 2

C. 2. Pictures from physical meeting(s)



Photo of the 1st physical meeting



Photo of the 2nd physical meeting

C. 3. Outcome of consultation process

i. Minutes of physical meeting(s)

Please ensure that you include a summary of the meeting as well as all comments received. Please also include discussion on Continuous Input / Grievance Expression methods; comments, agreement or modifications suggested by Stakeholders.

The stakeholder consultations have been carried out in the following order:

- **Registration**

Participates signed the attendance list.

- **Welcome remarks**

The project proponents welcomed the participants and explained the purpose of the agenda.

- **Introduction of Participants**

The organizer explained the organization structure, organization culture, and experience on hydropower projects' construction and operation.

- **Project Overview and introduction**

The organizer explained the Project, its technology and explained the GS-CDM application for the Project. The non-technical summary was used as a basis for this.

- **Discussion on continuous input / grievance mechanism**

After discussion, the continuous input / grievance mechanism was approved by all the participates, refer to Section E.2 for details.

- **Questions and Answers**

✧ What is Golden Standard?

✧ What are impacts on environment and benefits to the local people?

All these questions were fully and satisfactorily answered by the project proponents.

- **Blind sustainable development exercise**

General manager explained three categories of sustainable development: environment, social development and technological & economic development, and their possible indicators. He also explained that the evaluation would be done by comparing the project activity with a standard coal-fired power plant, which is the baseline situation. He asked which indicators the stakeholders thought were relevant to the project and then listed the indicators mentioned. He asked the audience to score them 'positive' 'neutral' or 'negative', and allowed the stakeholders to freely discuss the indicators.

- **Discussion on monitoring sustainable development**

The principle of monitoring data was explained and the stakeholders were asked if they have ideas on how to monitor the indicators if scored positive and on how to monitor the mitigation measures if the indicators scored negative. The result of this is documented in Section E below.

- **Open discussion**

Questions and comments by the stakeholders are summarized in section C.3.iii. of this report.

- **Declared the meeting closed**

The project proponents expressed their appreciation to all participants who attended the meeting and who offered many constructive suggestions.

ii. Minutes of other consultations

There has been no other consultation.

iii. Assessment of all comments

During the consultation process, the stakeholder feedback was collected in a format of questionnaire. A questionnaire was designed according to the Annex AC “Sustainable Development Indicator Questions” and “Gold Standard Rules and Toolkit”, which covers different sustainable development matrix. Based on the feedback for the questionnaire, the Stakeholders’ comments on social and environmental impacts as well as sustainable development were summarized in Section D.3 of this document. For the example of the questionnaire was presented below in this section.

Furthermore, to collect opinions from the participants, the stakeholders provided their comments freely without limited to the questionnaire in the meeting, which is summarized in the below table:

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
Does the project provide job opportunities to nearby village?	Yes	Project Owner’s representative mentioned that all the construction works would be open for local construction company, and would request the company to recruit locally.
Some stakeholders expected the project owner could provide stable electricity to nearby village.	Yes	The Project Owner’s representative mentioned that it is not allowed to supply electricity directly from the plant to end user, but the project owner would keep the power line(s) for construction even after the project comes into operation, thus the surrounding village can use those power lines to connect to the grid.
Is there Land occupied by the project?	No	Project Owner’s representative confirmed that none village would be directly affected by the intake weir, access road and powerhouse construction, due to the project site

3

1

Are you going to revisit the sustainable development assessment?

Yes

No

Please note that this is necessary when there are indicators scored 'negative' or if there are stakeholder comments that can't be mitigated

7

☒

[See Toolkit 2.7]

Give reasoning behind the decision

The overall feedback to the project was positive; therefore no need is seen in revisiting the sustainable assessment.

v. Summary of alterations based on comments

From the stakeholder consultation process, there were no comments including

environmental, social and economic concerns which caused a change to the project design. Other issues as mentioned above are almost covered in the basic design. Hence, the project will be implemented as per the original plan.

SECTION D. SUSTAINABLE DEVELOPMENT ASSESSMENT

D. 1. Own sustainable development assessment

i. 'Do no harm' assessment

Safeguarding principles	Description of relevance to my project	Assessment of my project risks breaching it (low/medium/high)	Mitigation measure
Human Rights			
1. The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project is not complicit in Human Rights abuses.	The project respects internationally proclaimed human rights, including personal and political freedom, economic, social and culture freedoms, etc. and none of the project participate is arms producer /distributor or land mines producer/ distributor. Lao PDR (host country) has ratified two core UN human rights treaties, including the UN International Covenant on Civil and Political Rights (ICCPR) and the International Covenant on Economic, Social and Cultural Rights (ICESCR) ³ . The project will have no negative impact on the lifestyles of local and indigenous people. The people in the surrounding area will benefit from the electricity they will get from the new hydropower station. The electricity for the neighbors is distributed by a local grid and is part of the internal electricity use.	Low	No mitigation measure is required for this indicator. Project will be implemented in compliance with regulations.

³ <http://www1.umn.edu/humanrts/research/ratification-laos.html>

2. The project does not involve and is not complicit in involuntary resettlement.	The project does not involve and is not complicit involuntary resettlement. As expected in the Initial Environment Examination (IEE) report by the designer during the preparation stage, the project is far away from villages, and there is no village impacted by the project. Also, there is no any private land affected or expropriation due to the implementation of the project.	Low	No mitigation measure is required for this indicator
3. The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage.	The Project does not involve and is not complicity in the alteration, damage or removal of any critical cultural heritage. There is no protected area, national park or archaeological site within the project boundaries.	Low	No mitigation measure is required for this indicator
Labour Standards			
4. The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights.	The project activity does not interfere with legal rights regarding employees' freedom of association or their right to collective bargaining. The project fully respects the employee's freedom and rights and all related laws endorsed by Lao government. Ref: Labour Law ⁴ , Article 5	Low	No mitigation measure is required for this indicator
5. The Project does not involve and is not complicit in any form of forced or compulsory labour.	All employees are engaged in the project implementation on a voluntary basis. The project fully respects the employee's rights in accordance with all labour related laws. The host country has ratified a total of eight ILO Conventions, including five of the eight ILO core Conventions ⁵ (covering forced labour, equal, discrimination and child labour). Ref: Labour Law, Article 3	Low	No mitigation measure is required for this indicator
6. The project does not	The project does not involve	Low	No mitigation measure is

⁴ http://www.na.gov.la/docs/eng/laws/soc_cult/Labour%20%282006%29%20Eng.pdf

⁵ <http://www.ilo.org/asia/countries/lao-peoples-democratic-republic/lang-en/index.htm>

employ and is not complicit in any form of child labour.	the employment and complicit of child labour. The Host country has its own credible legislation in place prohibiting child labour. The proposed project requires a limited number of skilled employees to operate, maintain and manage the plant. Therefore, it does not employ and is not complicit in any form of child labour. Ref: Labour Law, Article 41		required for this indicator
7. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	In Laos PDR(host country), labour legislation forbid any form of discriminate based on gender, race, religion, sexual orientation or on any other basis. According to the interview with the project owner, there is strong solidarity existing among people from different minority groups in the project site. Ref: Labour Law, Chapter 5&Chapter 7	Low	No mitigation measure is required for this indicator
8. The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments.	The construction of the project requires intensive labour for construction and machinery operation. Workers may be exposed to risk on the construction, e.g. occupational hazard and accidents. A hydro project in general does not expose workers to unsafe or unhealthy work environments in terms of toxins or chemicals.	Medium	The workers are trained in respect to construction safety. The project owners will provide safe and healthy environment in line with the labour law. Ref: Labour Law, Chapter 6
Environmental Protection			
9. The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle.	The project activity is only a hydropower project which not includes any planting, agriculture or similar activities. The project activity does not threaten human health or the environment. The project will be constructed and operated in an environmental friendly way. All the release (i.e. waste water, solid waste, excavation waste)	Low	The project will implemented according to national regulations including "Environmental Protection Law", "National Policy on Environmental and Social Sustainability of the Hydropower Sector in Lao PDR". Precautionary principles

	and hazard waste (i.e. waste oil) will be handled according to the national legislation. Adequate hearing protection will be provided during the blasting time.		<p>have been taken to avoid negative impacts to the local environment prior to the project starting to operation.</p> <p>In order to minimize impact on environment, mitigation measures will be issued which includes;</p> <ul style="list-style-type: none"> -Releasing minimal flow to ensure the biodiversity in the downstream of the river; -Proper disposal of wastes; Solid waste(such as excavation waste) can be collected regularly and transported to the site waste management facility for segregation prior to reuse or to sending off-site for recycling; - Restricted working hour in construction area and times for ground blasting; - Provide adequate hearing protection to Construction workers when noise levels of 70-80 dB or above due to the blasting; - Buffer zones of vegetation shall be left along stream banks to maintain riparian habitats and prevent sedimentation; <p>-Rehabilitation of land after construction works are completed including tree planting and topsoil restoration.</p>
10. The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) Officially proposed for	The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats. The project is located in an isolated area and there are no critical natural habitats located at or close to the project site. As a hydropower	Low	Company will comply with all national regulations.

protection, (c) Identified by authoritative sources for their high conservation value, or (d) Recognized as protected by traditional local communities.	project, the project will not lead to invasive species introduction or activity displacement.		
Anti-Corruption			
11. The project does not involve and is not complicit in corruption.	Lao PDR has published relevant law ⁶ to against corruption. Furthermore, Lao PDR ratified the UN Convention against Corruption ⁷ on Sep. 25, 2009, Lao PDR will have the right to ask for assistance from other member countries in investigating and dealing with corruption cases with foreign elements. The project is a private-owned, the project owner does not condone or support corruption. Ref: Penal Law, Article 157	Low	No mitigation measure is required for this indicator.
Additional relevant critical issues for my project type	Description of relevance to my project	Assessment of relevance to my project (low/medium/high)	Mitigation measure
1			
2			
Etc.			

ii. Sustainable development matrix

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development.	If relevant copy mitigation measure from "do no harm" – table, or include mitigation measure used to neutralise a score of ‘–’	Check www.undp.or/mdg and www.mdgmonitor.org Describe how your indicator is related to	Defined by project developer	Negative impact: score ‘–’ in case negative impact is not fully mitigated score 0 in case impact is

⁶ http://www.na.gov.la/docs/eng/laws/pub_adm/Penal%20%282005%29%20Eng.pdf

⁷ <http://www.unlao.org/Blog/post/Lao-PDR-joins-international-fight-against-corruption.aspx>

		local MDG goals		planned to be fully mitigated No change in impact: score 0 Positive impact: score '+'
Air quality	<p>Dust due to project construction and emission due to construction equipment according to the IEE report.</p> <p>The mitigation methods for dust suppression has been employed, including</p> <ul style="list-style-type: none"> -Topsoil removal land cleaning and rehabilitation will be undertaken progressively -Spraying water on the roads, spoil sumps, topsoil stockpiles and disturbed areas -Combustion engines be inspected and adjusted to minimize the air pollution - Workers wearing masks to prevent respiration discomfort and the dust screens are applied 	<p>Related to MDG Goal 7: Ensure environmental sustainability</p> <p>Target 7.a Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources</p>	<p>Parameter: air quality indicators</p> <p>Dust emission occurs due to the excavation process, however the emission can be mitigated using appropriate measures. On the other hand, the project will reduce SO_x, NO_x emissions due to combustion of fossil fuel for electricity generation in the baseline scenario.</p> <p>Thus, this sustainable indicator scores a "0".</p>	0
Water quality and quantity	<p>During the construction and operation, the following measures will be taken to minimize impacts on water quality:</p> <ul style="list-style-type: none"> -Introduce sanitation facility to treat the human waste - Collected dirty water from disturbed land and treat before release to the environment -Store the hydrocarbons(e.g. fuel and lubricants) and chemical reagents in 	<p>Related to MDG Goal 7: Ensure environmental sustainability</p> <p>Target 7.b Reduce biodiversity loss.</p>	<p>Parameter: Flow rate of water released & The water quality indicators</p> <p>During the project construction period, washing wastewater and wastewater with oil from machinery were produced. During the project operation period, domestic wastewater and sanitary wastewater is generated. The project owner applies</p>	0

	<p>safe place away from any water courses, the container of reagents and drums of used oil or grease are stored under cover at all times.</p> <p>The project is a run-of-river project, so it will discharge all of the water that is used for electricity generation. Conservation of locally adapted species and ecosystems are done via ensuring minimum water flow.</p> <p>As the IEE assessed, the project is a run of river type hydro project and has no reservoir to store water and regulate river runoff, thus the impact on the groundwater level is so minor that could be ignored. As well due to ecological flow, the vegetation and the associated biodiversity near streams will not be affected according to the assessment in the IEE.</p> <p>Thus, it does not change water balance and the level of the underground water is not affected.</p>		<p>treatment to discharged wastewater to make sure it is complied with the local regulation.</p> <p>Quantity of water released will be monitored to ensure the minimum flow by environment monitoring department is achieved.</p> <p>Thus, this indicator therefore scores "0".</p>	
Soil condition	<p>The construction may bring some impacts due to land clearing. The topsoil is exposed to the outside environment and may be removed by rain or wind. In order to mitigate such negative impacts, in general two measures are implemented. The first measure is for the immediate control,</p>	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Replantation</p> <p>Proper measures have been adopted to prevent negative impact on soil condition due to the project.</p> <p>The projects have to recover the plantation, which is affect during</p>	0

	<p>which is terracing. After construction is completed, the area will be replanted for long-term benefits. The excavated area at the intake weir and powerhouse will be protected by planting trees and grass to control erosion. Soil removed during the construction process will be stockpiled separately and would be reused later on. The local government will be responsible for monitoring of the implementation.</p>		<p>the construction period. The condition of the replantation will be monitored.</p> <p>Given the appropriate mitigation measures, this indicator scores "0".</p>	
Other pollutants	<p>To reduce/avoid the noise impacts, following measures will be taken:</p> <ul style="list-style-type: none"> -The drilling machines should be equipped with noise control devices such as mufflers. -Construction workers exposed to noise levels of 80 dB or more should be provided with adequate hearing protection. -Restrict working hours, Making no operation of noisy machinery during the rest time of local residents 	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Level of noise</p> <p>As the main construction sites are not adjacent to the local communities, the impact of noise is limited. And the project site is far away from the village and mitigation measures implemented during construction work.</p> <p>This indicator scores "0".</p>	0
Biodiversity	<p>Conservation of locally adapted species and ecosystems are done via ensuring minimum flow and recovery of vegetation after construction. According to the IEE, there is no migration fish was observed. Also since the project is run of river type hydro with no reservoir blocking water</p>	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Recovery of the vegetation</p> <p>The project owner will recovery the vegetation after construction. There is no endangered species in the project on-site.</p> <p>Thus, given the</p>	0

	<p>flow while minimum water flow is maintained, no impacts will be expected on fishes.</p> <p>The project has no reservoir to store water and regulate river runoff, thus the impact on the groundwater level is so minor that could be ignored.</p>		<p>appropriate mitigation measures, this indicator scores “0”.</p>	
Quality of employment	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Training plan</p> <p>Staffs to be employed for the project are most local people having poor education background.</p> <p>Compared to the baseline scenario, trainings provided by the project owner will improve the employees’ qualifications which might help them to find job more easily in future. Staff will be trained for the positions created during construction& operation phases. All Health and Safety measurements will be applied according to local regulations. The project will provide long-term jobs.</p> <p>Thus, this sustainable indicator scores a “+”.</p>	+
Livelihood of the poor	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p>	<p>Parameter: Number of the installed pumps on-site</p> <p>Water supply program is prepared for the</p>	+

		MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people	local people to improve their water supply system. Thus, this sustainable indicator scores a “+”.	
Access to affordable and clean energy services	-	Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States	<p>Parameter: the net electricity generated to the local grid</p> <p>Before the construction of the project, the local residents adopt firewood as the main energy source. The construction of the project will change the energy use and promote local electrification. The construction of the project will improve local electricity transmission system, promote the electrification progress. The project increases the renewable energy.</p> <p>Thus, this sustainable indicator scores a “+”.</p>	+
Human and institutional capacity	-	-	<p>The project enables of local female, as there is no gender barrier for employment of the project.</p> <p>Stakeholder comments are collected during the GS-CDM project development through a series of ground survey, village profile and household survey with the use of questionnaires and</p>	0

			<p>interviews.</p> <p>Through the stakeholder meeting, local residents participated in the decision-making of the project design. There is no significant impact on this indicator resulting from the project development.</p> <p>Thus this indicator scores "0".</p>	
Quantitative employment and income generation	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Number of jobs created</p> <p>During the construction period, plenty of job opportunities were provided to local residents, and the newcomers surged in the area will bring local people especially the poor and disadvantaged groups lots of employment chances.</p> <p>As a result the employment rate and income level have increased. And the average salary for the project employee is higher than the local level.</p> <p>So this indicator scores "+".</p>	+
Balance of payments and investment	The construction of the project will lead domestic investment to the project site area, where the most under	Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing	The construction of the project will lead millions of investment to the local area. The power generated by the project activity will	0

	developed area in a least developed country.	countries and small island developing States	<p>displace electricity supplied by the grid. Given the fact that coal resources are abundant, the renewable energy generation by the project will have a substantial impact on the balance of payments. Hence, compared with the baseline scenario there is no significant difference in terms of the balance of payments.</p> <p>Thus this indicator scores "0".</p>	
Technology transfer and technological self-reliance	-	<p>Target 8.F</p> <p>In cooperation with the private sector, make available the benefits of new technologies, especially information and communications</p>	<p>The turbine and generator of the project will adopt the mature technology from a foreign manufacturer, which has been well experience. The foreign engineers will transfer the technology on turbine and generator to local staffs on the equipment's installation and operation. And relevant training will be offered. While there is no significant impact on this indicator resulting from the project development.</p> <p>Thus, this sustainable indicator scores a "0".</p>	0

Comments accompanying own sustainable development matrix

D. 2. Stakeholders Blind sustainable development matrix

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development	If relevant, copy mitigation measure from 'Do No Harm' assessment, and include mitigation measure used to neutralise a score of '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u> score '+'
Air quality		Related to MDG Goal 7: Ensure environmental sustainability Target 7.a Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	Air quality indicators All stakeholders agree that this is a clean project without emission.	0
Water quality and quantity		Related to MDG Goal 7: Ensure	Flow rate of water released & The water	0

		environmental sustainability Target 7.b Reduce biodiversity loss.	quality indicators The hydropower stations do not alter the water that runs through them.	
Soil condition		Related to MDG Goal 7: Ensure environmental sustainability	As the project dose not have reservoir, Hence, all the stakeholders consider that the project negligibly affects the soil quality	0
Other pollutants		Related to MDG Goal 7: Ensure environmental sustainability	All the stakeholders consider that there is no other pollutant from this project.	0
Biodiversity		Related to MDG Goal 7: Ensure environmental sustainability	Due to the project is a run-of-river hydro project without the reservoir, all the water used for the power generation will be discharged. Impacts on flora and fauna are negligible.	0
Quality of employment		MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day. MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people	Most participants believed that the project would improve the quality of the employment in the area. Therefore, score positive is conservatively given.	+
Livelihood of the poor		MDG Target 1.A: Halve, between 1990 and 2015, the proportion of	After discussion, the stakeholders realize this new project can	+

		<p>people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people</p>	<p>bring more tax to the government and increase local spending, thus it may have indirect positive impacts on the livelihood of the poor. And the job opportunities will be provided to the local residents, which will bring local people especially the poor the employment chances. Thus they score it positive.</p>	
Access to affordable and clean energy services		<p>Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States</p>	<p>The stakeholders are aware that the project consumes no fossil fuel and produces clean energy with water source, however, since they sell electricity directly to the Grid to replace power generated by fossil-fuel plants. Thus they score it positive.</p>	+
Human and institutional capacity		-	<p>After discussion, the stakeholders consider working at the plant requires professional skills, hence, they score this indicator positive.</p>	+
Quantitative employment and income generation		<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p>	<p>In stakeholders' opinion, since more job opportunities are created, more income is expected. Thus they score this indicator positive.</p>	+

		MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people		
Balance of payments and investment		Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States	After discussion, the project participants agree no impacts are expected on balance of payments and investment.	0
Technology transfer and technological self-reliance		Target 8.F In cooperation with the private sector, make available the benefits of new technologies, especially information and communications	After discussion, project participants realize no technology transfer happened for this project.	0

Comments resulting from the stakeholders blind sustainable development matrix

Give analysis of difference between own sustainable development matrix and the one resulting from the blind exercise with stakeholders. Explain how both were consolidated.

The blind exercise was completed by the stakeholders. During the stakeholder consultation meeting, questionnaires with all the SD indicators requested by GS were distributed, all the meaning for the indicators were explained to the participants, During the meeting, the score presented in the LSC was based on result of questionnaires return by the stakeholders.

PO's own sustainable development table was filled in together with the "do no harm" assessment and indicators assessment before the meeting.

Way of consolidation:

Due to the fact that both tables are scored in the same way, the consolidated table uses the identical scores plus the explanations from the 'own sustainable development matrix', as these explanations are more detailed.

D. 3. Consolidated sustainable development matrix

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development.	If relevant copy mitigation measure from "do no harm" – table, or include mitigation measure used to neutralise a score of '–'	Check www.undp.or/mdg and www.mdgmonit.or.org Describe how your indicator is related to local MDG goals	Defined by project developer	Negative impact: score '–' in case negative impact is not fully mitigated score 0 in case impact is planned to be fully mitigated No change in impact: score 0 Positive impact: score '+'
Air quality	Dust due to project construction and emission due to construction equipment according to the IEE report. The mitigation methods for dust suppression has been employed, including -Topsoil removal land cleaning and rehabilitation will be undertaken progressively -Spraying water on the roads, spoil sumps, topsoil stockpiles and disturbed areas -Combustion engines	Related to MDG Goal 7: Ensure environmental sustainability Target 7.a Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	Parameter: air quality indicators Dust emission occurs due to the excavation process, however the emission can be mitigated using appropriate measures. On the other hand, the project will reduce SOx, NOx emissions due to combustion of fossil fuel for electricity generation in the baseline scenario. Thus, this sustainable indicator	0

	<p>be inspected and adjusted to minimize the air pollution</p> <ul style="list-style-type: none"> - Workers wearing masks to prevent respiration discomfort and the dust screens are applied 		scores a "0".	
Water quality and quantity	<p>During the construction and operation, the following measures will be taken to minimize impacts on water quality:</p> <ul style="list-style-type: none"> -Introduce sanitation facility to treat the human waste - Collected dirty water from disturbed land and treat before release to the environment -Store the hydrocarbons(e.g. fuel and lubricants) and chemical reagents in safe place away from any water courses, the container of reagents and drums of used oil or grease are stored under cover at all times. <p>The project is a run-of -river project, so it will discharge all of the water that is used for generate the electricity. Conservation of locally adapted species and ecosystems are done via ensuring minimum flow. Thus, it does not change in water</p>	<p>Related to MDG Goal 7: Ensure environmental sustainability</p> <p>Target 7.b Reduce biodiversity loss.</p>	<p>Parameter: Flow rate of water released & The water quality indicators</p> <p>During the project construction period, washing wastewater and wastewater with oil from machinery were produced. During the project operation period, domestic wastewater and sanitary wastewater is generated. The project owner applies treatment and reporting the discharged wastewater to make sure it is complied with the relevant regulation. Although pollutant is produced, appropriate mitigation measures are in place. Quantity of water released will be monitored to ensure the minimum flow by environment monitoring department is achieved.</p> <p>Thus, this indicator therefore scores "0".</p>	0

	balance and the level of the underground water is not affected.			
Soil condition	<p>The impacts of soil erosion due to construction would not be significant with adequate mitigation measures.</p> <p>To prevent soil erosion, fast-growing trees and grass will be planted in the non-plant slopes. The first measure is for the immediate control, which is terracing. After construction is completed, the area will be replanted for long-term benefits. The excavated area at the intake weir and powerhouse will be protected by planting trees and grass to control erosion. Soil removed during the construction process will be stockpiled separately and would be reused later on. Drain system will be established in the quarry area and slag yard will be covered during rainy season. The local government will be responsible for monitoring of the implementation. Thus, the construction of the project will not lead to observable change in soil</p>	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Replantation</p> <p>Proper measures have been adopted to prevent negative impact on soil condition due to the project.</p> <p>The projects have to recover the plantation, which is affect during the construction period. The condition of the replantation will be monitored.</p> <p>Given the appropriate mitigation measures, this indicator scores "0".</p>	0

	quality.			
Other pollutants	<p>To reduce/avoid the noise impacts, following measures will be taken:</p> <ul style="list-style-type: none"> -The drilling machines should be equipped with noise control devices such as mufflers. -Construction workers exposed to noise levels of 80 dB or more should be provided with adequate hearing protection. -Restrict working hours, Making no operation of noisy machinery during the rest time of local residents 	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Level of noise</p> <p>As the main construction sites are not adjacent to the local communities, the impact of noise is limited. And the project site is far away from the village and mitigation measures implemented during construction work.</p> <p>This indicator scores "0".</p>	0
Biodiversity	<p>Conservation of locally adapted species and ecosystems are done via ensuring minimum flow and recovery of vegetation after construction.</p> <p>The dissolved oxygen level and water depth is enough for the fish to swim. According to the IEE, there is no migration fish was observed. Also since the project is run of river type hydro with no reservoir blocking water flow while minimum water flow is maintained, no impacts will be expected on fishes. The underground water is not affected.</p>	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter: Recovery of the vegetation</p> <p>The project owner will recovery the vegetation after construction. There is no endangered species in the project on-site.</p> <p>Thus, given the appropriate mitigation measures, this indicator scores "0".</p>	0

	The underground water is not affected.			
Quality of employment	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Training plan</p> <p>Staffs to be employed for the project are most local people having poor education background.</p> <p>Compared to the baseline scenario, trainings provided by the project owner will improve the employees' qualifications which might help them to find job more easily in future. Staff will be trained for the positions created during construction & operation phases. All Health and Safety measurements will be applied according to local regulations. The project will provide long-term jobs.</p> <p>Thus, this sustainable indicator scores a "+".</p>	+
Livelihood of the poor	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for</p>	<p>Parameter: Number of the installed pumps on-site</p> <p>Water supply program was prepared for the local people to improve their water supply system.</p> <p>And the job opportunities will be</p>	+

		all, including women and young people	provided to the local residents, which will bring local people especially the poor lots of employment chances. Thus, this sustainable indicator scores a “+”.	
Access to affordable and clean energy services	-	Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States	Parameter: the net electricity generated to the local grid Before the construction of the project, the local residents adopt firewood as the main energy source. The construction of the project will change the energy use and promote local electrification. The construction of the project will improve local electricity transmission system, promote the electrification progress. The project increases the renewable energy. Thus, this sustainable indicator scores a “+”.	+
Human and institutional capacity	-	-	The project enables of local female, as there is no gender barrier for employment of the project. Stakeholder comments are collected during the GS-CDM project development through a series of	0

			<p>ground survey, village profile and household survey with the use of questionnaires and interviews.</p> <p>Through the stakeholder meeting, local residents participated in the decision-making of the project design. There is no significant impact on this indicator resulting from the project development.</p> <p>Thus this indicator scores "0".</p>	
Quantitative employment and income generation	-	<p>MDG Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.</p> <p>MDG Target 1.B: Achieve full and productive employment and decent work for all, including women and young people</p>	<p>Parameter: Number of jobs created</p> <p>During the construction period, plenty of job opportunities were provided to local residents, and the newcomers surged in the area will bring local people especially the poor and disadvantaged groups lots of employment chances.</p> <p>As a result the employment rate and income level have increased. And the average salary for the project employee is higher than the local level.</p> <p>So this indicator</p>	+

			scores “+”.	
Balance of payments and investment		Target 8.B and 8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States	The construction of the project will lead millions of investment to the local area. The power generated by the project activity will displace electricity supplied by the grid. Given the fact that coal resources are abundant, the renewable energy generation by the project will have a substantial impact on the balance of payments. Hence, compared with the baseline scenario there is no significant difference in terms of the balance of payments. Thus this indicator scores “0”.	0
Technology transfer and technological self-reliance	-	Target 8.F In cooperation with the private sector, make available the benefits of new technologies, especially information and communications	The turbine and generator of the project will adopt the mature technology from foreign manufacturer, which has been well practised in many Southeast Asia counties. The foreign engineers will transfer the technology on turbine and generator to local staffs on the equipment’s installation and operation. After discussion, project	0

			<p>participants realize no technology transfer happened for this project since Laos still cannot manufacture its own hydro equipments.</p> <p>Thus, this sustainable indicator scores a “0”.</p>	
Justification choices, data source and provision of references				
Air quality	In the IEE Report, it states that mitigation measures are applied to control the expected dust emission.			
Water quality and quantity	In the IEE Report, it states that all the wastewater in project activities is treated before discharging to the river.			
Soil condition	In the IEE Report, it states that project does not significantly impacts on the soil condition. Mitigation measures are applied to project short term soil degradation: rehabilitation of vegetation in the affected places is conducted right after the completion of the construction work.			
Other pollutants	There is not any disturbing noise at residential areas because of the project location is far from local village.			
Biodiversity	The ecosystem surround the project area is not endangered, the impacts deriving from the project activity is not significant on the biodiversity.			
Quality of employment	Source: Training documents provided by project owner			
Livelihood of the poor	Source: Materials provided by the project owner			
Access to affordable and clean energy services	The project may diversify the grid to toward more green level. However, given the amount of electricity produced by the project, it still plays small part in the local grid.			
Human and institutional capacity	Source: IEE and the on-site stakeholder materials			
Quantitative employment and income generation	<p>The project provides job opportunities to the local people and increase income generation in the region.</p> <p>Source: FSR</p>			
Balance of payments and investment	Source: Concession Agreement provided by Project owner			
Technology transfer and technological self-reliance	Source: Contract Agreement			

References can be an academic or non-academic source, such as a university research document, a feasibility study report, EIA, relevant website, etc.

SECTION E. SUSTAINABILITY MONITORING PLAN

E. 1. Discussion on Sustainability monitoring Plan

Discuss stakeholders' ideas on monitoring sustainable development indicators. Do people have ideas on how this could be done in a cost effective way? Are there ways in which stakeholders can participate in monitoring?

Through discussion between the project proponents and the stakeholders, the following parameters were suggested as part of the sustainability monitoring plan:

- **Air quality:** In order to mitigate air pollution caused by dust, the project will take all necessary measures such as spraying water on-site and covering material trucks to avoid dust, utilizing modern means for the construction.
- **Water quality and quantity:** On-site treatment of construction wastewater prior to discharge. The minimum flow will be released to maintain the eco-system and meet demand for irrigation in the downstream.
- **Soil condition:** When the project is commissioned, the project proponents commit to conduct plantation around the project site to reduce erosion, and condition the air at the plant.
- **Other pollution:** To prevent noise impact, the drilling machines should be equipped with noise control devices such as mufflers. Construction workers exposed to noise levels of 80 dB or more should be provided with adequate hearing protection.
- **Quality of employment:** For the purpose of the project implementation and operation, a certain number of operating workers shall be trained by a competent agency on different issues.
- **Livelihood of the poor:** Water supply program was prepared for the local people to improve their water supply system.
- **Access to affordable and clean energy services:** Power generated from hydraulic energy is a clean source. Therefore positive score is given.
- **Quantitative employment and income generation:** Written confirmation (coupled with employment contracts) from the project owner can be provided to the DOE to confirm that jobs have been created as a result of the project implementation.

E. 2. Discussion on continuous input / grievance mechanism

Discuss the Continuous input / grievance mechanism expression method and details, as discussed with local stakeholders.

During the consultation meeting, the stakeholders were informed that they are invited for the feedback round, the continuous input methods were discussed, and finally the following methods

were determined:

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification
Continuous Input / Grievance Expression Process Book	Grievance expression book in Villages	Kept by the leader of the villages
Telephone access	+00856-20-28190844	Project manager
Internet/email access	Yaodong.lu@gmail.com	Project manager

All issues identified during the crediting period through any of the Methods shall have a mitigation measure in place. The identified issue should be discussed in the revised Passport and the corresponding mitigation measure should be added to sustainability monitoring plan

SECTION F. DESCRIPTION OF THE DESIGN OF THE STAKEHOLDER FEEDBACK ROUND

During the consultation meeting, the stakeholders were informed that they are invited for the feedback round. The relevant content will be added after the Stakeholder Feedback Round is completed. And the outcome of the Stakeholder Feedback Round will be summarized in the final version of the GS-passport.

ANNEX 1. ORIGINAL PARTICIPANTS LIST

Participate List of the 1st Stakeholder Meeting

List Participants Consultation Workshop on Nam Ngao in 20 March, 2015 at Donchan Palace Hotel, Vientiane, Lao PDR.

No.	Name and Surname	Organization	Position	Phone number	E-mail	Signature
1	Mr. Phovong Luangxaysana	DDMCC, MONRE	Director of DDMCC	020-2221 4122	phovongl@hotmail.com	
2	Mr. Immal Inthaboualy	DDMCC, MONRE	Dputy of Division	020-5562 9734	inthaboualy@gmail.com	
3	Mr. Souvathaisoutham	Department of policy and Energy plan, MEM	Technical	020-5551 1726	souvathaisoutham@gmail.com	
4	Ms. Chansavanh Keovixay	Department of policy and Energy plan, MEM	Technical	020-5569 6556	chansavanh-kva@hotmail.com	
5	Mr. Khamman Sopraseuth	Renewable Energy Institute, MEM	Deputy Director of Division	020-2220 1821	ka_manh@yahoo.com	
6	Mr. Bounthong Keohanam	Department of Urban and Planning, MPWT	Division Director	020-2225 1361	bunthong2001@yahoo.com	
7	Ms. Viengsommath	Department of Transport, MPWT	Technical	020-2286 6686	viengsommath@gmail.com	
8	Mr. Saisamon Chansanga	Renewable Energy Institute, MOST	Director of Division	020-2222 9426	saysamon@mostgo.la	
9	Mr. Davone Thongphan	Faculty of Forestry Sciences, NUOL	Director of Division	020-5561 4921	daovornth@yahoo.com	
10	Mr. Aphavanh Manivanh	Vientiane Urban Development Administration Authority	Technical	020-5560 6947		
11	Mr. Oudomluck Charthavong	Department of quality environment, MONRE	Technical	020-2222 6022	oudomluck@yahoo.com	
12	Mr. Houmphaeng Boupakham	Department of Forestry resources management, MONRE	Director of Division	020-5549 9979	bph-dfrm@hotmail.com	
13	Ms. Phongoun Souvarhnavong	Institute of Public Work and Transport, MPWT	Director of Division	020-2240 6890	phongoun55@yahoo.com	
14	Mr. Saengchan Phaxayaseang	Department of Technology, MOST	Director of Division	020-2221 3171	sengphasay@gmail.com	

Participate List of the 2nd Stakeholder Meeting

ບັນຊີການເຂົ້າຮ່ວມຂອງຫຼາຍພາກສ່ວນກອງປະຊຸມລຳດັບ
Attendance List of Stakeholder Meeting

ວັນທີ (Date):

ສະຖານທີ່ (Location):

	ຊື່ (Name)	ວຽກເຮັດງານທຳ (Job)	ບົດບາດຍິງຊາຍ (Gender)	ບ້ານ (village)	ຕິດຕໍ່ລາຍລະອຽດ (Contact details)
1	Mrs LAYOT	chop village	women	numsend	Tel 55574849 Long
2	MR. chai chuan	General Village	man	Numsend	94654183. Han Thon
3	Mr. Pham An	Farmer	man	-u-	53118630 Ph
4	Mr. Onchanh	-u-	MAN	-u-	54402556 Sep
5	Mr. Kham	-u-	MAN	numliar	56859816. Sami
6	Miss Chan Dy	-u-	woman	numliar	- 955
7	Mr. phothong chan	-u-	MAN	num send	59525007 Kha
8	Mr Kham phan	-u-	MAN	Numsend	59118638. Kham
9	Mr. Ou dom	-u-	MAN	numsend	59500166 Kham
10	Mr. SonThaly	-u-	MAN	-u-	58724313. Chany
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ANNEX 2. ORIGINAL EVALUATION FORMS

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ນ. ຫຼີກອດ ສີລາເປີ/ຈ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແຕ່ງ່ວກັບກອງປະຊຸມນີ້?	ດີ ປະໂຫຍດ ເພາະໄດ້ມາຮຽນຮູ້ ແລະ ຄຸ້ມຄອງ
ທ່ານມັກຫຍັງແຕ່ງ່ວກັບໂຄງການນີ້?	ຊ່າງ ທີ່ມີ ສາມາດ ເຮັດໜ້າທີ່ ດ້ານ ທຸກໆ
ທ່ານບໍ່ມັກຫຍັງແຕ່ງ່ວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ໂພນ ນ. ຫຼີກອດ

happy to attend.

Provide power

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ເຈົ້າ ສິລາ ພິມມະວົງ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແຕ່ງ່ວກັບກອງປະຊຸມນີ້?	ດີ ຈາກການປະຊຸມ ໄດ້ມາຮຽນຮູ້ ແລະ ຄຸ້ມຄອງ
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ລາຍເຊັນ:	ຈິນ

Happy to attend.

Provide job

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ນາ ອິນທະພອນ ພິມມະວົງ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແຕ່ງ່ວກັບກອງປະຊຸມນີ້?	ດີ ຈາກການປະຊຸມ ໄດ້ມາຮຽນຮູ້ ແລະ ຄຸ້ມຄອງ
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ທ່ານບໍ່ມັກຫຍັງແຕ່ງ່ວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ອິນທະພອນ ພິມມະວົງ

Happy to meet you

Support the project

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ນາ ອິນທະພອນ ພິມມະວົງ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແຕ່ງ່ວກັບກອງປະຊຸມນີ້?	ດີ ຈາກການປະຊຸມ ໄດ້ມາຮຽນຮູ້ ແລະ ຄຸ້ມຄອງ
ທ່ານມັກຫຍັງແຕ່ງ່ວກັບໂຄງການນີ້?	ຊ່າງ ທີ່ມີ ສາມາດ ເຮັດໜ້າທີ່ ດ້ານ ທຸກໆ
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ລາຍເຊັນ:	ນາ ອິນທະພອນ ພິມມະວົງ

Happy to meet you

Support

Develop our village

None

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ

Agree the meeting

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	

Support the project

PO to develop the village

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ

The meeting is good.

Provide job
None

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ

Happy

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	ຂ້າພະເຈົ້າໄດ້ຮັບຄວາມເປັນຈິງທີ່ ທ່ານ ສິນທິພອນ ສິນທິພອນ
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ທ່ານ ສິນທິພອນ ສິນທິພອນ

A good meeting

Develop the village facility

None

Hydropower Project LSC Evaluation Form

ຊື່ ແລະ ນາມສະກຸນ: ສາ. ສົມ ບາ: ລີ ນິເວນ ສວັດທະນະ	
ທ່ານມີຄວາມຄິດເຫັນຫຍັງແດ່ກ່ຽວກັບກອງປະຊຸມນີ້?	ດີ ມາ ສູງ ສຳລັບ ຂໍ້ມູນ ທີ່ ສຳຄັນ
ທ່ານມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	ດີ ມາ ສູງ ສຳລັບ ທ່ານ ນາມ ສະກຸນ
ທ່ານບໍ່ມັກຫຍັງແດ່ກ່ຽວກັບໂຄງການນີ້?	
ລາຍເຊັນ:	ສາ. ສົມ ບາ: ລີ

Enjoy the meeting

Support our village