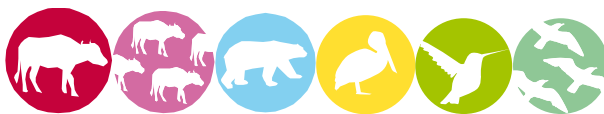


ANNEX R – PASSPORT TEMPLATE

CONTENTS



- A. Project title**
- B. Project description**
- C. Proof of project eligibility**
- D. Unique Project Identification**
- E. Outcome stakeholder consultation process**
- F. Outcome sustainability assessment**
- G. Sustainability monitoring plan**
- H. Additionality and conservativeness deviations**
- Annex 1 ODA declarations**

SECTION A. Project Title

Title: Nam Pha Gnai Hydropower Project

Date: 05/05/2016

Version no.: 05

SECTION B. Project description

Start date of the project: 29/10/2014 (Signed the "Project Construction Contract")

Nam Pha Gnai Hydropower Project is located on the Nam Pha Gnai River, Xaysomboun District, Vientiane Province, Lao PDR. The project is a run-of-river hydropower station, at the downstream of the planned Nam Ngum 3 station. For the upstream Nam Ngum 3 hydropower project (hereinafter referred to as "NN3 project"), the installed capacity is 440MW, which will be in operation on 1 Jan. 2020. The installed capacity is 19.2 MW (7.4MW+7.4MW+4.4MW), the estimated power supplied to the power grid will be 130GWh (before year 2020) and 86GWh (after year 2020). The construction of the project includes fixed weir, a sand trap, intake, headrace canal, headrace tunnel, forebay, penstock, powerhouse with 3 units of turbines (2*7,400 KW + 4,400 KW), and a tailrace

The project is expected to constantly contribute clean energy to the Lao Power Grid. For the Lao Power Grid is connected with the power grid in Thailand, the power supplied by the project will not only meet domestic electricity demand, but also increase the net power export to Thailand and decrease the net power import from Thailand, where the power grid is dominated by thermal power plants. The baseline scenario of the project is continuation of the present situation, i.e. electricity supplied from the power grid. By displacing part of the power generated by thermal power plants, the project is therefore expected to reduction of CO₂ emissions by an estimated 62,184 t CO₂e per year during the first crediting period.

Power supplied to the regional grid will provide clean & cheap electricity power in this region, promote the sustainable development in this region and slowing down the increasing trend of GHG emissions.

SECTION C. Proof of project eligibility

C.1. Scale of the Project

Please tick where applicable:

Project Type	Large	Small
	☒	☐

	☐	☐
	☐	☐
	☐	☐
	☐	☐

	☐
---	--------------------------

C.2. Host Country

Lao People's Democratic Republic

C.3. Project Type

Please tick where applicable:

Project type	Yes	No
Does your project activity classify as a Renewable Energy project?	☒	☐
Does your project activity classify as an End-use Energy Efficiency Improvement project?	☐	☒
Does your project activity classify as waste handling and disposal project?	☐	☒

Please justify the eligibility of your project activity:

Project activity involves construction of a 19.2 MW run-of-river hydroelectric power plant for electricity generation. Project category is included in the sectoral scope 1 “Energy Industry – Renewable Sources” according to the UNFCCC definition. The project is located in Lao PDR’s, which is an UNFCCC eligible host country site. Because the project is replacing electricity generated from the fossil fuel dominated grid, it reduces CO₂ that would have been emitted by coal fire power plant connected to the grid. CO₂ is one of the greenhouse gases eligible under the Gold Standard. The project is privately owned by a number of individual investors, no ODA is flowed into this project. Furthermore, The specific hydro eligibility is fulfilled:

- 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.

To conclude, the project meets all eligible categories under the Gold Standard eligibility Assessment, it should apply for the registry of Gold Standard Renewable Energy Supply Project.

Pre Announcement	Yes	No
Was your project previously announced?	☐	☒
Explain your statement on pre announcement To overcome financial weakness, and unfavorable conditions that the project encounters, the project owner decided to seek carbon revenue assistance after the project Feasibility Study Report had been completed by independent design institute on Mar. 2013. Carbon revenue has been taken into account by project investors in making the project decision to proceed.		

C.4. Greenhouse gas

Greenhouse Gas	
Carbon dioxide	☒

Methane	☐
Nitrous oxide	☐

C.5. Project Registration Type

Project Registration Type	
Regular	☒

Pre-feasibility assessment	Retroactive projects (T.2.5.1)	Preliminary evaluation (eg: Large Hydro or palm oil-related project) (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	☐	☐	☐

If Retroactive, please indicate Start Date of project activity dd/mm/yyyy: _NA_____

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

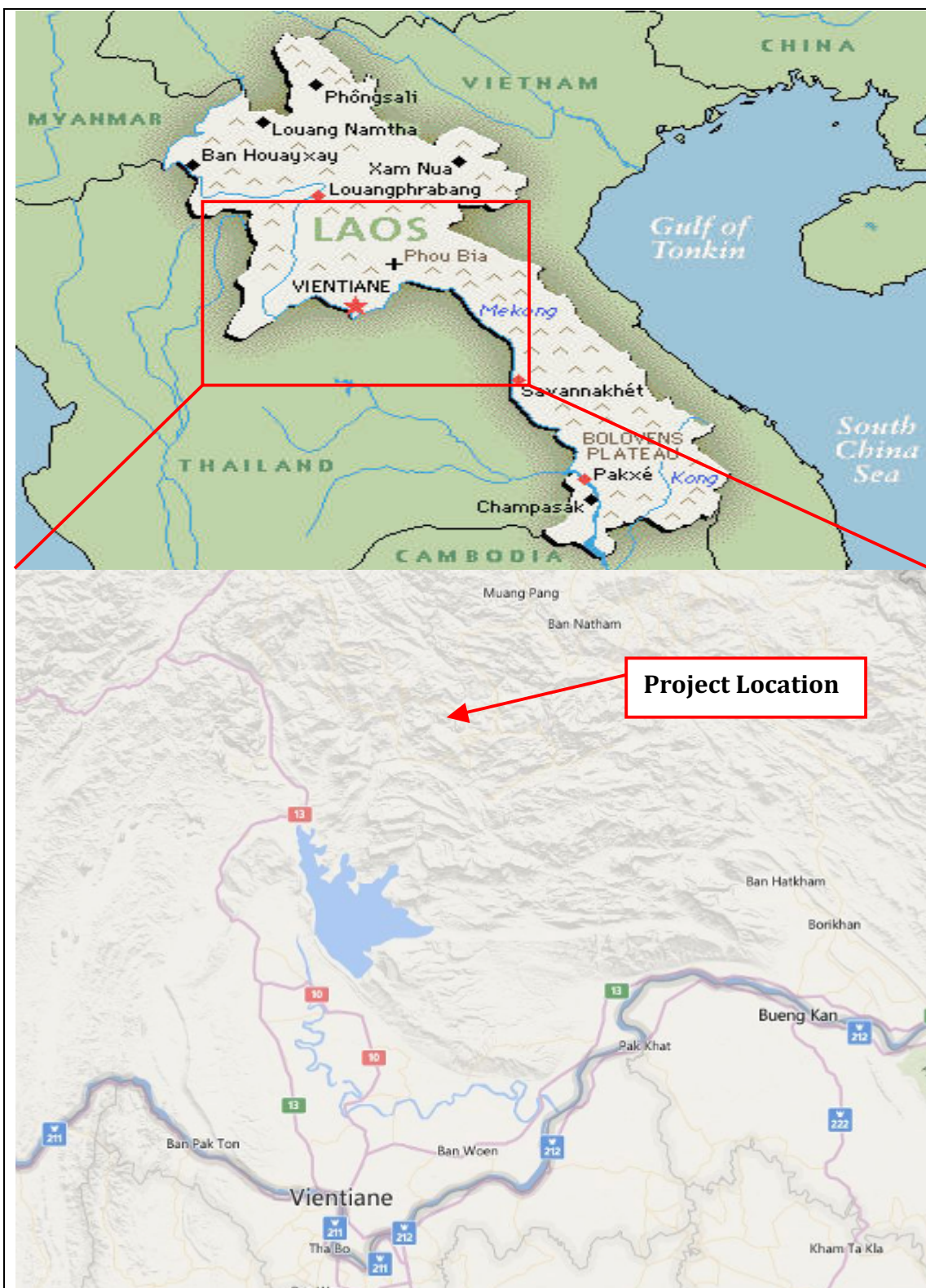
	Coordinates
Latitude	19.009331°N
Longitude	102.872314°E



Explain given coordinates

The Project site is located at the on the Nam Pha Gnai River, Xaysomboun District, Vientiane Province, Lao PDR. The GPS coordinates are for the weir.

D.2. Map



SECTION E. Outcome stakeholder consultation process

E.1. Assessment of stakeholder comments

Organization and Process of the stakeholder comments

Considering the Project is located at remote area with poor transportation condition, the Local Stakeholder Meeting for Nam Pha Gnai Hydropower project was held at two different places separately. One was held in Vientiane at 2:00 pm Sep 5th 2014 (Friday) for government officer, NGOs, experts, etc., the other one was held in Working Camp of the project at 2:00 pm on Sep 8th 2014 (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.

During the consultation meeting, the project owner introduced the information of the project, and the draft IEE report was provided for the participants. The stakeholders raised their comments during the meeting. The summary of assessment of all comments are listed below:

Stakeholder comment	Was comment taken into account (Yes/No)?	Explanation (Why? How?)
Is the water quantity affected by the project's implementation?	No	Project Owner's representative confirmed that there would be no negative permanent effect to locals during the project construction and operation phase, instead there might be only minor temporally impact due to waste water while the mitigation measure would be adopted. Only part of the water flow would be diverted for power generation and regarding to the river part from overflow dam to the power house, a minimum water flow would be guaranteed at no less than the average water flow in dry season thus there would be minor impact on the water utilization for nearby villages. Furthermore, the representative mentioned that a Water Supply Program would be prepared for the local people to improve their water supply system.
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.
Wastewater generation during construction	No	Project Owner's representative mentioned that water is very important to the local residents, migration measures would be taken to avoid impacts on water quality, such as introduce sanitation facility to treat the human waste, collect dirty water from disturbed land and treat before release to the river.
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 is far away from villages.
Is the technology used in the project reliably?	Yes	The project owner confirmed that they will choose reputable manufacturer to provide mature technology and equipment.
Does the dam's construction lead to flood?	No	The project is run-of-river hydropower project, and there is no dam to reserve water which not leads to the flood occur. Furthermore, afforestation will be taken to prevent soil erosion.
Does the project's implementation affect the irrigation?	No	The project owner explained that there's no reservoir for the project to regulate the run off of the river, thus will not affect the water for irrigation. Actually project is far away from nearby village and there is no farmland nearby.



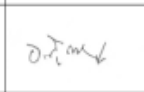
Photos of first stakeholder consultation meeting



Photos of second stakeholder consultation meeting

Attendance List of GS Stakeholder Meeting for Nam Pha Gnai Hydropower Project

Date:

No.	Name and Surname	Organization	Position	Phone number	E-mail	Signature
1	Mr. Phovong Luangxaysana	DDMCC, MONRE	Director of DDMCC	020-2221 4122	phouvongl@hotmail.com	
2	Dr. Kaisone Phengsopha	Faculty of Forestry Sciences, NUOL	Director of Division	020-5566 2299	Kaisone_p@hotmail.com	
3	Mr. Xaysavanh Latthachack	Renewable Energy Institute, MEM	Technical	020-2222 9909	xaylathachack@gmail.com	
4	Ms. Phouvong Chanthavong	Department of Housing and Urban Planning, MPWT	Deputy Director of Division	020-5568 5917	phouvong-55@yahoo.com	
5	Mr. Sengpannha Ratlanavong	Department of Quality Environment, MONRE	Deputy Director of Division	020-2225 5836	Sengpannha@hotmail.com	
6	Mr. Soubanh Bounpachit	Department of Planing, MPI	Technical	020-5826 2993	economicsqq@yahoo.com	
7	Mr. Vilasack Choundala	Natural Resource and Environment Institute, MONRE	Assistant Director of Institutional	020-2203 0897	sack_4369@yahoo.com	
8	Mr. Sengchanh Phasayaseng	Department of Technology and Innovation, MOST	Director of Division	020-2221 3171	sengphasay@gmail.com	

9	Mr. Phengkhamla Phonvisai	Department of Control Pollution, MONRE	Director of Division	020-2224 7788	phonvisai@gmail.com	
10	Ms. Davanh INTHAM	Department of Environment and Social Impact Assessment, MONRE	Technical	020-2223 3646		
11	Mr. Lair PHIMPHISAME	Department of Energy Management, MEM	Technical	020-2322 9900	Lair_pps@hotmail.com	
12	Ms. Ammone Sithaphone	DDMCC, MONRE	Technical	020-7816 5352	yim_ammone@yahoo.com	
13	Mr. Sada Vouth MANIVONC	Department of Forestry, MOAF	Technical	020-9886 6620	vouth666kira@live.com	
14	Mr. Chanthavone Keomanouvong	DDMCC, MONRE	Technical	020-2222 1927	jkeomanouvong@yahoo.com	
15	Mr. Bounthee Saythongvanh	DDMCC, MONRE	Technical	020-5622 2240	thee988@hotmail.com	
16	Mr. Phouvannasinh Phongsa	DDMCC, MONRE	Technical	020-5553 3262	tk_phs@hotmail.com	
17	Mr. Vannakhone Chanthavilay	DDMCC, MONRE	Technical	020-9994 5131	Chanthavilay111444@gmail.com	
18	Ms. Thounheuang Buithavong	DDMCC, MONRE	Technical	020-2282 2221	nanouv@hotmail.com	
19	Ms. Vathsouda Nilathsay	DDMCC, MONRE	Technical	020-7799 9973	na-charming@hotmail.com	
20	Ms. Jam Chanmany	DDMCC, MONRE	Technical	020-7744 9099	JamJam-111@hotmail.com	

Attending list of the first stakeholder consultation meeting

**Attendance List of Stakeholder Meeting for
 Nam Pha Gnai Hydropower GS-CDM Project**

Date:

Location:

	Name	Job/position in the community	Gender	Signature	Village	Contact details	Way of invitation (Bulletin/ letter)
1	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...
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28	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...
32							
33							
34							
35							
36							

Attending list of the second stakeholder consultation meeting

E.2. Stakeholder Feedback Round

Please describe report how the feedback round was organized, what the outcomes were and how you followed up on the feedback.

During the consultation meeting, the stakeholders were informed that they are invited for the feedback round.

Since no significant issue has been identified in the consultation meeting, the stakeholder feedback round was not conducted as a physical meeting, instead, the relevant documents including PDD, LSC

report, passport, IEE which includes the information collected from the first round LSC were made public available by the project owner.

Hard copies of the stakeholder consultation report, PDD and Passport were sent to the stakeholders through the leader of the village community since May, 2015. All the stakeholders participated in the initial meeting were invited. The invitee list as follows:

Category Code	Village	Name of invitee	Way of invitation	Date of invitation
A	Ban Pha Gnai	Bounlean	Invitation letter	01/05/2015
A	Ban Pha Gnai	Chansom	Invitation letter	01/05/2015
A	Ban Pha Gnai	Thong	Invitation letter	01/05/2015
A	Ban Pha Gnai	Phue	Invitation letter	01/05/2015
A	Ban Pha Gnai	Baolone	Invitation letter	01/05/2015
A	Ban Pha Gnai	Khamphong	Invitation letter	01/05/2015
A	Ban Pha Gnai	Mone Phongsake	Invitation letter	01/05/2015
A	Ban Pha Gnai	Ouansy	Invitation letter	01/05/2015
A	Ban Pha Gnai	Pheng	Invitation letter	01/05/2015
A	Ban Pha Gnai	Song	Invitation letter	01/05/2015
A	Ban Pha Gnai	Thongma	Invitation letter	01/05/2015
A	Ban Pha Gnai	Khamchanh	Invitation letter	01/05/2015
A	Ban Pha Gnai	Sonphet	Invitation letter	01/05/2015
A	Ban Pha Gnai	Seng	Invitation letter	01/05/2015
A	Ban Pha Gnai	Cing Songai	Invitation letter	01/05/2015
A	Ban Pha Gnai	Sonphet	Invitation letter	01/05/2015
A	Ban Pha Gnai	Onesy	Invitation letter	01/05/2015
A	Ban Pha Gnai	Meu	Invitation letter	01/05/2015
A	Ban Pha Gnai	Phonexay	Invitation letter	01/05/2015
A	Ban Pha Gnai	Khor Monguanh	Invitation letter	01/05/2015
A	Ban Pha Gnai	Keomany	Invitation letter	01/05/2015
A	Ban Pha Gnai	Ler	Invitation letter	01/05/2015
A	Ban Pha Gnai	Nak	Invitation letter	01/05/2015
A	Ban Pha Gnai	Onlay	Invitation letter	01/05/2015
A	Ban Pha Gnai	Manivong	Invitation letter	01/05/2015
A	Ban Pha Gnai	Duang	Invitation letter	01/05/2015
A	Ban Pha Gnai	Thone Thongpah	Invitation letter	01/05/2015
A	Ban Pha Gnai	Khamsao	Invitation letter	01/05/2015
A	Ban Pha Gnai	Simeuang	Invitation letter	01/05/2015
A	Ban Pha Gnai	Chansom	Invitation letter	01/05/2015

The Invitation letter as follows:

English Version:

Dear Sir/Madam,

Nam Pha Gnai Hydropower Project is a Gold Standard candidate project. The feedback round is to collect opinions from stakeholders regarding the impacts from the project according to the requirement of Gold standard. As the project participants, we humbly accept the advices, comments and suggestion of all stakeholders.

Annex:

1. GS Local Stakerholder Consulation Report,
2. PDD
3. GS Passport Report

Kind Regards

DENG SANAKEO (DSK) Group
Contact Person: Mr Yaodong Lu
Mobile: 00856-20-28190844

The Lation Version:

ຮຽ : ທ່າ ແຂກຜູ້ມີກຽດທັງຫຼາຍ

ໂຄງກາ ເຂື່ອນໄຟຟ້າ ຄຳໃຫຍ່ຮາຍໂດຣພາວເວີ ເປັ ໂຄງກາ ກິ ໂກກາ ພັດທ
 ະ າສະອາດໂຄງກາ ຫນຶ່ງຂອງອົງກາ ໂກ ລສະແຕ ດາດ.ກອງປະຊຸມສາມັນນີ້ໄດ້ຈັດຕັ້ງ
 ເພື່ອເກັບກຳຄວາມຄິດ ເຫັນ ຂອງຜູ້ມີສ່ວ ຮ່ວມກ່ຽວກັບຜົ ກ
 ະທົບຂອງໂຄງກາ ຕາມມາດຕະຖາ ຂອງ ອົງກາ ໂກ ລສະແຕ
 ດາດ.ໃ າມຜູ້ຈັດຕັ້ງກອງປະຊຸມ ພວກເຮົາຍີ ດີຮັບຄຳແ ະ ຳ, ຄຳເຫັນ ແລະ
 ຄຳເຕືອ ຈາກຜູ້ມີສ່ວ ຮ່ວມໝົດທຸກທ່າ . ຈະມີພະ ກແ ະ ຳຕົວ ແລະເກັບກຳຂໍ້ມູ .

ເອກະສານຊ້ອນ:

1. GS ທ້ອງຖິ່ນສ່ວນຮ່ວມປຶກສາຫາລື
2. ບົດລາຍງານການອອກແບບໂຄງການ
3. ຫນັງສືຜ່ານແດນໂຄງການ

ຂໍສະແດງຄວາມັບຖື

ກອງປະຊຸມຜູ້ມີສ່ວ ຮ່ວມຈະດຳເນີນດັ່ງນີ້:

ສະຖານທີ່: ບ້ານ ນ້ຳຜານນ້ອຍ, ເຂດລ່ອງແຈ້ງ, ແຂວງໄຊສົມບູນ

ຜູ້ຕິດຕໍ່: MR. LU

ໂທລະສັບ: +856-20-2819 0844

Besides, the relevant documents were also published at website of VER buyer and GS since 4th May 2015 to invite further comments from local and global stakeholders.

The website is as follows:

http://www.southpolecarbon.com/projects/project_development_standards/consultations/
https://mer.markit.com/br-reg/public/project.jsp?project_id=103000000007780

The global invitee list as follows:

Category Code	Organization	Name of invitee	Way of invitation	Date of invitation
E	Gold Standard	Anonymous	Email	04/05/2015
F	Global Association for People and the Environment	Anonymous	Email	04/05/2015
C	Lao DNA	Anonymous	Email	04/05/2015
F	REEEP	Anonymous	Email	04/05/2015
F	Mercy Corps	Anonymous	Email	04/05/2015
F	WWF	Anonymous	Email	04/05/2015
F	Global Environmental Institute (GEI)	Anonymous	Email	04/05/2015
F	Green Peace	Anonymous	Email	04/05/2015
F	Care International	Anonymous	Email	04/05/2015
F	Citizens's Alliance for Saving the Atmosphere and Earth (CASA)	Anonymous	Email	04/05/2015
F	Clean Energy Nepal	Anonymous	Email	04/05/2015
F	Climate Action Network South Africa	Anonymous	Email	04/05/2015
F	David Suzuki Foundation	Anonymous	Email	04/05/2015
F	Development Alternatives	Anonymous	Email	04/05/2015
F	Earth Advantage, Inc.	Anonymous	Email	04/05/2015
F	EnerGHG India	Anonymous	Email	04/05/2015
F	Energy Forum	Anonymous	Email	04/05/2015
F	Euronatura–Center for Environmental Law and Sustainable Development	Anonymous	Email	04/05/2015
F	European Business Council for Sustainable Energy e5	Anonymous	Email	04/05/2015
F	Fair Climate Network	Anonymous	Email	04/05/2015
F	Forum for the Future	Anonymous	Email	04/05/2015
F	Fundacion Ecodiversidad Colombia	Anonymous	Email	04/05/2015
F	Zero: Regional Environment Organisation	Anonymous	Email	04/05/2015
F	The Climate Group (China)	Anonymous	Email	04/05/2015
F	Renewable Energy & Energy Efficiency Institute	Anonymous	Email	04/05/2015
F	Philippine Solar Energy Society	Anonymous	Email	04/05/2015
F	A World Institute for a Sustainable Humanity (A W.I.S.H)	Anonymous	Email	04/05/2015
F	The Whitmore Initiative Society	Anonymous	Email	04/05/2015
F	The Environmental Investigation Agency	Anonymous	Email	04/05/2015
F	SouthSouthNorth	Anonymous	Email	04/05/2015
F	SolarAid	Anonymous	Email	04/05/2015
F	SKG Sangha	Anonymous	Email	04/05/2015
F	Sibol ng Agham at Teknolohiya	Anonymous	Email	04/05/2015
F	Shanshui Conservation Center, China	Anonymous	Email	04/05/2015
F	PURE the Clean Planet Trust	Anonymous	Email	04/05/2015

F	Plantons Utile	Anonymous	Email	04/05/2015
F	Indonesian Climate Action Network	Anonymous	Email	04/05/2015
F	International Centre for Eradication of Poverty	Anonymous	Email	04/05/2015
F	Kangmei Institute of Community Development and Marketing	Anonymous	Email	04/05/2015
F	Kiko Network	Anonymous	Email	04/05/2015
F	KLIMA	Anonymous	Email	04/05/2015
F	Triangle Generation Humanitaire	Anonymous	Email	04/05/2015
D	Local independent consultant and expert	Anonymous	Email	04/05/2015

The screen shot of the invitation email as follows:

Dear Secretariat of Gold Standard,

Dear GS Experts,

Dear NGOs,

Dear Sir/Madam whoever concerns,

Nam Pha Gnai Hydropower Co., Ltd. is planning to conduct Stakeholder Feedback Round for " Nam Pha Gnai Hydropower Project ".

The proposed project will be developed as a Gold Standard CDM project.

The Local Stakeholder Consultation report, the revised PDD, the revised Passport and EIA report are open for comments on the website during 5th May 2015 to 6th July 2015.

http://thesouthpolegroup.com/projects/project_development_standards/consultations

https://mer.markit.com/pr-reg/public/project.jsp?project_id=103000000006281

With this invitation letter, the project participants would like to invite you to participate this Gold Standard Stakeholder Feedback Round.

If you have any comments on the proposed project, please send in your questions /comments to the undersigned below by 6th July, 2015.

The contact person:

Nam Pha Gnai Hydropower Co., Ltd. Contact Person: Mr Yaodong Lu

Mobile: 00856-20-28190844

Swiss Carbon Assets Limited.

Contact Person: Ms Fang Qun

Phone: +86 10 8454 9953

After the 2-month long feedback round, there was no further comments received from the stakeholders regarding to the documents or other related factors of the project activity. Thus the stakeholder consultation process has been completed as the guideline of GS and the all the comments received and the follow up response by the project entity has been described as presented above.

As required by GS, the continuous input mechanism with the stakeholders has been established, the input from stakeholders will be collected and dealt by the project owner in the future and the relevant measures to be taken by the project entity will also be monitored as described above.

E. 3. Discussion on continuous input / grievance mechanism

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

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification
Continuous Input / Grievance Expression Process Book	The Grievance Expression Book is located in the Village Working Committee Office of Ban Pha Gnai Village and kept by the leader of Ban Pha Gnai named Bounlean. Tel:+00856-20-2327 4646	The Address is: Nam Pha Gnai Village, Xaysomboun District, Vientiane Province, Lao PDR
Telephone access	+00856-20-28190844 +41 (0) 22 788 7080	Project manager GS telephone number
Internet/email access	Yaodong.lu@gmail.com info@goldstandard.org and annyta.luo@goldstandard.org	Project manager GS Email

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 in section G.

SECTION F. Outcome Sustainability assessment

F.1. 'Do no harm' Assessment

Project activities have been analyzed against questions in table 2.6 and in annex H of GS toolkit. Project is not complicit in corruption and fully respects human rights. Also, there exist no identified species under protection in the project area that will be affected negatively by the project.

Project is a run-off-river type project and does not involve use or generation of any hazardous waste. All of the project activity is implemented considering related environmental and safety precautions. Based on the analysis, only relevant areas related to project activity are determined as labor standards and environmental protection which are assessed as given in table below.

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. Lao PDR 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) ¹ . 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	Low	No mitigation measure is required for this indicator. Project will be implemented in compliance with regulations and agreements.

¹ <http://www1.umn.edu/humanrts/research/ratification-laos.html>

	electricity use.		
2. The project does not involve and is not complicit in involuntary resettlement.	The project does not involve any resettlement according to the Initial Environmental Examination (IEE) report. As expected in the 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 ² , 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.	Low	No mitigation measure is required for this indicator.

² http://www.na.gov.la/docs/eng/laws/soc_cult/Labour%20%282006%29%20Eng.pdf

	Ref: Labour Law, Article 3		
6. The project does not employ and is not complicit in any form of child labour.	The project does not involve 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	Low	No mitigation measure is 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.	Medium	All labours will be trained in terms of work safety and relevant safety protocols. Necessary Health and Safety equipments will be distributed to the staff.
Environmental Protection			
9. The project takes a precautionary approach in regard to environmental	The project activity does not threaten human health or the environment. The project will be constructed and operated in	Low	The project will be constructed and operated according to national regulations including “Environmental

challenges and is not complicit in practices contrary to the precautionary principle.	an environmental friendly way. All the release (i.e. waste water, solid waste, excavation waste) 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.		Protection Law”, ”National Policy on Environmental and Social Sustainability of the Hydropower Sector in Lao PDR”. Precautionary principles have been taken to avoid negative impacts to the local environment prior to the project starting to operation. In order to minimize impact on environment, measures will be issued which includes; - 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; - Rehabilitation of land after
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			construction works are completed including tree planting and topsoil restoration.
Social impacts			
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 protection, (c) Identified by authoritative sources for their high conservation value, or (d) Recognized as protected by traditional local communities.	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.	Low	Company will comply with all national regulations.
Anti-Corruption			
11. The project does not involve and is not complicit in corruption.	The project does not condone or support corruption. Lao PDR has published relevant law ³ to against corruption. Furthermore, Lao PDR ratified the UN Convention against Corruption ⁴ 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. Ref: Penal Law, Article 157	Low	The project owner always insists on anti-corruption and has internal standard to regulate their commercial actions. The relevant evidence, such as the internal policy and company regulations, would be offered.

³ http://www.na.gov.la/docs/eng/laws/pub_adm/Penal%20%282005%29%20Eng.pdf

⁴ <http://www.unlao.org/Blog/post/Lao-PDR-joins-international-fight-against-corruption.aspx>

F.2. Sustainable Development matrix

Insert table as in section D3 from your Stakeholder Consultation report (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 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 equipments according to the IEE report. The Methods for dust suppression has been employed, including sprinkling water (minimum frequency- at least once a day) to control dust which resulting from construction activities, workers wearing masks to prevent	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 CO ₂ emissions due to combustion of fossil fuel for electricity generation in the baseline scenario. Thus, this	0

	respiration discomfort, and the dust screens is applied.		sustainable indicator scores a "0".	
Water quality and quantity	Washing wastewater is treated in sediment tank before discharged to the river. Wastewater with oil was treated through filtration. Sanitary sewage is treated in the septic tank before discharging to the river. The minimum flow will be released to maintain the eco-system and meet demand for irrigation in the downstream. The proposed 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. 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. Thus, it does not change in water balance and the level of the underground water is not affected.	Related to MDG Goal 7: Ensure environmental sustainability Target 7.b Reduce biodiversity loss.	Parameter: Flow rate of water released & Water quality indicators During the project construction period, washing wastewater and wastewater with oil from machinery are produced. During the project operation period, domestic wastewater and sanitary wastewater are generated. The project owner applies treatment and reporting the discharged wastewater to make sure it is complied with the local regulation. Appropriate mitigation measures are in place. Thus, this indicator therefore scores 0.	0

Soil condition	The impacts of soil erosion due to construction would not be significant with adequate mitigation measures. To prevent soil erosion, fast-growing trees and grass will be planted in the non-plant slopes. Drain system will be established in the quarry area and slag yard will be covered during rainy season. Thus, the construction of the project will not lead to observable change in soil quality. 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.	Related to MDG Goal 7: Ensure environmental sustainability	Parameter: Re-plantation measures Proper measures have been adopted to prevent negative impact on soil condition due to the project. The projects have to recover the plantation, which is affected during the construction period. The condition of the re-plantation will be monitored. Given the appropriate mitigation measures, this indicator scores "0".	0
Other pollutants	To prevent noise impact, the drilling machines should be equipped with noise control devises such as mufflers. Construction workers exposed to noise levels of 80 dB or more should be provided with adequate hearing protection.	Related to MDG Goal 7: Ensure environmental sustainability	Parameter: level of the noise 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	0

			construction work.	
			This indicator scores "0".	
Biodiversity	Conservation of locally adapted species and ecosystems are done via ensuring minimum flow and recovery of vegetation after construction. 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 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. Some vegetation or trees will be removed at the construction sites (hydropower plant, access roads, and work camps). All works will be carried out to minimize damage or disruption to vegetation. After completion of construction activities, temporarily occupied areas will be replanted. Construction activities will disturb the habitat of terrestrial animals immediately, especially at the night. This may result in movement of wildlife from the project vicinity. However, no protected species live in the immediate vicinity of the	Related to MDG Goal 7: Ensure environmental sustainability	Parameter: Recovery of the vegetation The project owner will recover vegetation after construction. There is no endangered species in the project on-sit. Thus, given the appropriate mitigation measures, this indicator scores "0".	0

	project site. The impact is anticipated to be temporary during construction.			
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	Parameter: Training plan Staffs to be employed for the project are most local people having poor education background. 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. Therefore, this indicator is scored "+".	+
Livelihood of the poor		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:	Parameter: Number of the installed pumps on-site. The project owner provided 4 water pumps to nearby village-Ban Pha Gnai which has around 400 peoples and 8km away from the project. The construction	+

		Achieve full and productive employment and decent work for all, including women and young people	was conducted since Nov. 2014 and ended at May 2015. The water quality from the pumps is good for drinking with low content of Nitrate (NO₃-N), Ammonia (NH₃-N), phosphate, Turbidity and Total Suspended Solids (TSS). Before the implementation of the water supply system, local people depend on the Nam Ngum River. As study by Mekong River Commission (MRC), the content of iron, turbidity and total suspended solid as well as coliform bacteria during the raining season demonstrated that the water quality does not serve for drinking water. Thus the water supply system improves the local people's living level greatly. Therefore, this indicator is scored "+".	
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 supplied to the local grid. Before the construction of the project, the local residents use 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 indicator scores “+”	
Human and institutional capacity		-	The project enables 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 ground survey, village profile and household survey with the use of questionnaires and interviews. 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. Thus this indicator scores “0”	0
Quantitative employment and income		MDG Target 1.A: Halve, between 1990 and 2015, the proportion	Parameter: Number of jobs created	+

generation		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	During the construction period, job opportunities were provided to local residents, and existence of the project in the area will bring local people especially the poor and disadvantaged groups lots of employment chances. As a result the employment rate and income level have increased. And the average salary for the project employees is higher than the local level. So this indicator scores “+”.	
Balance of payments and investment	The construction of the project will lead domestic investment to the project site area, where the most under developed area in a least developed country.	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 not 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		Target 8.F In cooperation with the private sector, make	The turbine and generator of the project will adopt the mature technology from a	0

self-reliance		available the benefits of new technologies, especially information and communications	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. Thus, this sustainable indicator scores a "0".	
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. Source: Chapter 5.1.4, IEE		
Water quality and quantity		In the IEE Report, it states that all the wastewater in project activities is treated before discharging to the river. Source: Chapter 5.1.2, IEE		
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. Source: Chapter 5.1.3, IEE		
Other pollutants		There is not any disturbing noise at residential areas because of the project location is far from local village.		

	Source: Chapter 5.1.5, IEE
Biodiversity	The ecosystem surround the project area is not endangered, the impacts deriving from the project activity is not significant on the biodiversity. Source: Chapter 5.2, IEE
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: Chapter 6, FSR
Quantitative employment and income generation	Source: Chapter 6 of IEE and the on-site stakeholder materials
Balance of payments and investment	The project provides job opportunities to the local people and increase income generation in the region.
Technology transfer and technological self-reliance	Source: Chapter 11, FSR

SECTION G. Sustainability Monitoring Plan

No		1
Indicator		Air Quality
Mitigation measure		The project caused dust emission due to the construction work. The level of emission was complied with the legal dust emission limits. The project owner used wet damping, sprinklers to minimize the dust emission during the construction period.
<i>Repeat for each parameter</i>		
Chosen parameter		The air quality indicators
Current situation of parameter		N/A
Estimation of baseline situation of parameter		N/A
Future target for parameter		To meet with local regulation and rules
Way of monitoring	How	On-site examination and the the mitigation measures will be kept and ready for Verification
	When	During construction
	By who	Project owner

No		2
Indicator		Water Quality and quantity
Mitigation measure		The minimum flow will be released to maintain the eco-system and meet demand for irrigation in the downstream. On-site treatment of construction wastewater prior to discharge.
<i>Repeat for each parameter</i>		
Chosen parameter		- Flow rate of water released from the weir - The water quality indicators
Current situation of parameter		N/A
Estimation of baseline situation of parameter		N/A
Future target for parameter		To meet with local standard and regulation
Way of monitoring	How	Examination by the environment monitoring department according to the relevant standards and regulations
	When	- The water quality examination will be conducted at least monthly. - The water flow will be examined and recorded daily.
	By who	The Local environment monitoring department

No	3
Indicator	Soil condition
Mitigation measure	To prevent soil erosion, trees and grass will be planted in the non-plant slopes. Drain system will be established in the quarry area and slag yard will be covered during rainy season. Thus, the construction of the project will not lead to observable

		change in soil quality.
<i>Repeat for each parameter</i>		
Chosen parameter		Replantation
Current situation of parameter		Soil naturally covered by plants or stones
Estimation of baseline situation of parameter		N/A
Future target for parameter		The bared soil due to the project construction should be covered during rainy season in construction period, and trees and grass should be covered after project construction.
Way of monitoring	How	Observations during site visits and continuous monitoring during construction
	When	Annually
	By who	Project Owner

No		4
Indicator		Other pollution
Mitigation measure		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.
<i>Repeat for each parameter</i>		
Chosen parameter		Level of Noise
Current situation of parameter		N/A
Estimation of baseline situation of parameter		N/A
Future target for parameter		Minimize the impact of noise to the around residents and construction workers according to the local regulations
Way of monitoring	How	Examine by the environment monitoring department
	When	Annually
	By who	Local environment monitoring department

No		5
Indicator		Biodiversity
Mitigation measure		The project owner will enforce soil conservation actions during and after the construction period according to relevant local regulation
<i>Repeat for each parameter</i>		
Chosen parameter		
Current situation of parameter		Natural situation
Estimation of baseline situation of parameter		-
Future target for parameter		Recovery of vegetation after construction
Way of monitoring	How	Site visits and interviews with locals
	When	Annually

	By who	Project Owner
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No		6
Indicator		Quality of employment
Mitigation measure		Staff will be trained for the positions created during construction& operation phases. All Heath and Safety measurements will be applied according to local regulations.
Repeat for each parameter		
Chosen parameter		Training Plan
Current situation of parameter		
Estimation of baseline situation of parameter		-
Future target for parameter		All relevant staff to be trained for Health and Safety and relevant staff should be certified for working at high voltage environment.
Way of monitoring	How	Check employment records and training documents/certificates
	When	Annually
	By who	Project Owner

No		7
Indicator		Livelihood of the poor
Mitigation measure		Water supply program was prepared for the local people to improve their water supply system.
Repeat for each parameter		
Chosen parameter		Number of the installed pumps on-site.
Current situation of parameter		Local residents lack the basic water supply system
Estimation of baseline situation of parameter		-
Future target for parameter		Implement the water supply program, assist local residents got clean water conveniently, thus improve the sanitation and livelihood of the poor.
Way of monitoring	How	Site visit to the water supply program.
	When	Annually after the program is completed.
	By who	Project Owner

No	8
Indicator	Access to affordable and clean energy services
Mitigation measure	N/A
Repeat for each parameter	
Chosen parameter	Net electricity generation by project activity.
Current situation of parameter	Local residents adopt firewood as the main energy source, which may lead damage to forest and biodiversity.
Estimation of baseline situation of parameter	130 GWh (before year 2020) 86 GWh (after year 2020)
Future target for parameter	The future target for the annual net electricity generation by the project is available for the local residents.

Way of monitoring	How	Project owner will monitor the net electricity generation according to the electricity generation meter
	When	Continuous
	By who	DOE

No	9	
Indicator	Quantitative employment and income generation	
Mitigation measure	During the construction period, job opportunities were provided to local residents, and the existence of the project in the area will bring local people especially the poor and disadvantaged groups lots of employment chances	
Repeat for each parameter		
Chosen parameter	Number of jobs created	
Current situation of parameter	In rural area of Lao PDR, local residents do not have any employment opportunities.	
Estimation of baseline situation of parameter	No employment opportunities.	
Future target for parameter	Provide jobs and training opportunities for local residents, reduce poverty.	
Way of monitoring	How	Through checking materials of employment and wage payment.
	When	Annually
	By who	Project Owner

Additional remarks monitoring

N/A

SECTION H. Additionality and conservativeness



This section is only applicable if the section on additionality and/or your choice of baseline does not follow Gold Standard guidance

H.1. Additionality

Additionality assessment is performed according to the “Tool for the demonstration and assessment of additionality” approved by UNFCCC.

Benchmark analysis is applied to demonstrate the additionality of the project. The benchmark value at the decision-making is 15.46%. The analysis shows that without the revenue of CERs, the IRR of the project will be 10.99%, much lower than the benchmark. The sensitive analysis shows that even if the $\pm 10\%$ variation range of the key parameters adopted, the IRR of the project still can't surpass the benchmark. The project is not financial attractive. However, the CDM revenue is able to help project overcome the investment barriers.

Details are available in the Project Design Document.

H.2. Conservativeness

A conservative approach has been followed in calculating the baseline emission factors and investment analysis sections as detailed in the PDD.

ANNEX 1 ODA declaration

Project financing for this project activity will not use Official Development Assistance (ODA) Funds. There are no loans or grants being provided by International Finance Institutions, which include ODA.



ANNEX D - OFFICIAL DEVELOPMENT ASSISTANCE DECLARATION

Date: 19 Jan, 2015

The Gold Standard Foundation
79 Avenue Louis Capet
Geneva Cointrin, CH-1216
Switzerland

RE: Declaration of Non-Use of Official Development Assistance by Project Owner of Nam Pha Gnal Hydropower Project [GS 3514]

[Project Owner] Nam Pha Gnal Hydropower Co., Ltd.

As Project Owner of the above-referenced project, and acting on behalf of all Project Participants, I now make the following representations:

[Project Representative] Sayasith Sanakeo

I hereby declare that I am duly and fully authorized by the Project Owner of the above-referenced project to act on behalf of all Project Participants and make the following representations:

I. The Gold Standard Documentation

I am familiar with the provisions of The Gold Standard Documentation relevant to Official Development Assistance (ODA). I understand that the above-referenced project is not eligible for Gold Standard registration if the project receives or benefits from Official Development Assistance with the condition that some, or all, of the carbon credits (CERs, ERUs, or VERs) coming out of the project are transferred to the ODA donor country. I hereby expressly declare that no financing provided in connection with the above-referenced project has come from or will come from ODA that has been or will be provided under the condition, whether express or implied, that any or all of the carbon credits issued as a result of the project's operation will be transferred directly or indirectly to the country of origin of the ODA.

II. Duty to Notify Upon Discovery

If I learn or if I am given any reason to believe at any stage of project design or implementation that ODA has been used to support the development or implementation of the project, or that an entity providing ODA to the host country may at some point in the future benefit directly or indirectly from the carbon credits generated from the project as a condition of investment, I will notify The Gold Standard immediately using the Amended ODA Declaration Form provided below.



III. Investigation

The Gold Standard reserves the right to conduct an investigation into any project it reasonably believes may be receiving ODA with the condition that some or all of the carbon credits from the project will be transferred to the ODA donor country.

IV. Sanctions

I am fully aware that the sanctions identified in The Gold Standard Terms and Conditions may be applied to me or the above-referenced project in the event that any of the information provided above is false or I fail to notify the Gold Standard of any changes to ODA in a timely manner.

I swear that all of the statements contained herein are true to the best of my knowledge.

Signed: 

Name: Mr. Sayasith Sanakeo

Title: Director

On behalf of: Nam Pha Gnal Hydropower Co., Ltd.

Place: Laos PDR



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