

ANNEX R – PASSPORT TEMPLATE

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SECTION A. Project Title

Title: Nam Hinboun Downstream Hydropower Project

Date: 5/1/2018

Version no.: 01

SECTION B. Project description

The project start date: 14 August, 2017 (Engineering, Procurement and Construction contract has been signed)

The Nam Hinboun Downstream Hydropower station is a low-dam type with the power station located in the riverbed and installed capacity 15MW and it comprises two 7.5MW tubular turbine-generators.



Following the Lao PDR's electrification policy, the electricity supply falls in short compared to the increased electricity demand. 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 amount of annual average GHG emission reductions 44,235 t CO₂e 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
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

	<input type="checkbox"/>
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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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does your project activity classify as an End-use Energy Efficiency Improvement project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does your project activity classify as waste handling and disposal project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please justify the eligibility of your project activity:

Project activity involves construction of a 15 MW hydroelectric power plant for electricity generation. Project category is included in the sectoral scope¹ “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.

The Initial Environmental Examination(IEE) was prepared by ESL (Environment Sustainability Livelihood) in February 2017. According to the IEE, the project is not located in a High Conservation Value (HCV) area as below:

Eligibility Criteria		How to meet the Eligibility Criteria
Is the project located in HCV areas?	Areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species, refugia etc.).	No. According to IEE, the project is not located in any of the HCV areas. The project is not located in any area listed in the World Database on protected planets (IUCN, UNEP), the Ramsar list of wetlands, and the United Nations list of protected areas.
	Globally, regionally or nationally significant large landscape-level areas where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance.	
	Areas that are in or contain rare, threatened or endangered ecosystems.	
	Areas that provide basic ecosystem services in critical situations (e.g. watershed protection, erosion control).	
	Areas fundamental to meeting basic needs of local communities (e.g. subsistence, health).	
	Areas critical to local communities’ traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).	
Unless already addressed satisfactorily as part of an existing Environmental and Social Impact Assessment (ESIA), the opinion of an independent, relevant expert(s) shall be provided at a minimum on all of the following issues - the opinion may be that an issue is not relevant for the		The Initial Environmental Examination(IEE) was prepared by ESL in February 2017. Therefore, opinion of expert is not required.

¹ <http://www.esllao.com/>

considered project	
Project Participants shall plan for, and conduct a one-day training for the hydropower plant staff on the different issues identified by the independent expert. This training must be included in the Monitoring Plan.	The Project Participants will conduct a one-day training for the hydropower plant staff on the different issues. This training will be included in the Monitoring Plan.
Project Participants shall refer to Gold Standard Annex G for additional guidance on expectations on a series of issues associated with hydropower activities.	The sustainable issues including air quality, noise and vibration excavation debris, erosion and sediment transport, migration of aquatic species, forest resources and terrestrial biodiversity, water quality, human rights and Involuntary resettlement are accessed in the IEE prepared by ESL in February 2017.
The Gold Standard Foundation will evaluate on a case-by-case basis the eligibility of hydropower activities with an installed capacity greater than 20 MWe using the pre-feasibility assessment (PFA), and in accordance with the procedure provided in section T.2.5.	Not applicable. The installed capacity of the Project is 15MWe, which below 20MWe.
To conclude, the project meets all eligible categories under the Gold Standard eligibility Assessments and it should apply for the registry of Gold Standard Renewable Energy Supply Project.	

Pre Announcement	Yes	No
Was your project previously announced?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Explain your statement on pre announcement</p> <p>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.</p> <p>Carbon revenue has been taken into account by project investors in making the project decision to proceed.</p>		

C.4. Greenhouse gas

[See Toolkit 1.2.d]

Greenhouse Gas	
Carbon dioxide	<input checked="" type="checkbox"/>
Methane	<input type="checkbox"/>
Nitrous oxide	<input type="checkbox"/>

C.5. Project Registration Type

Project Registration Type	
Regular	<input checked="" type="checkbox"/>

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)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

SECTION D. Unique project identification

D.1. GPS-coordinates of project location

	Coordinates
Latitude	17°43' 38" N

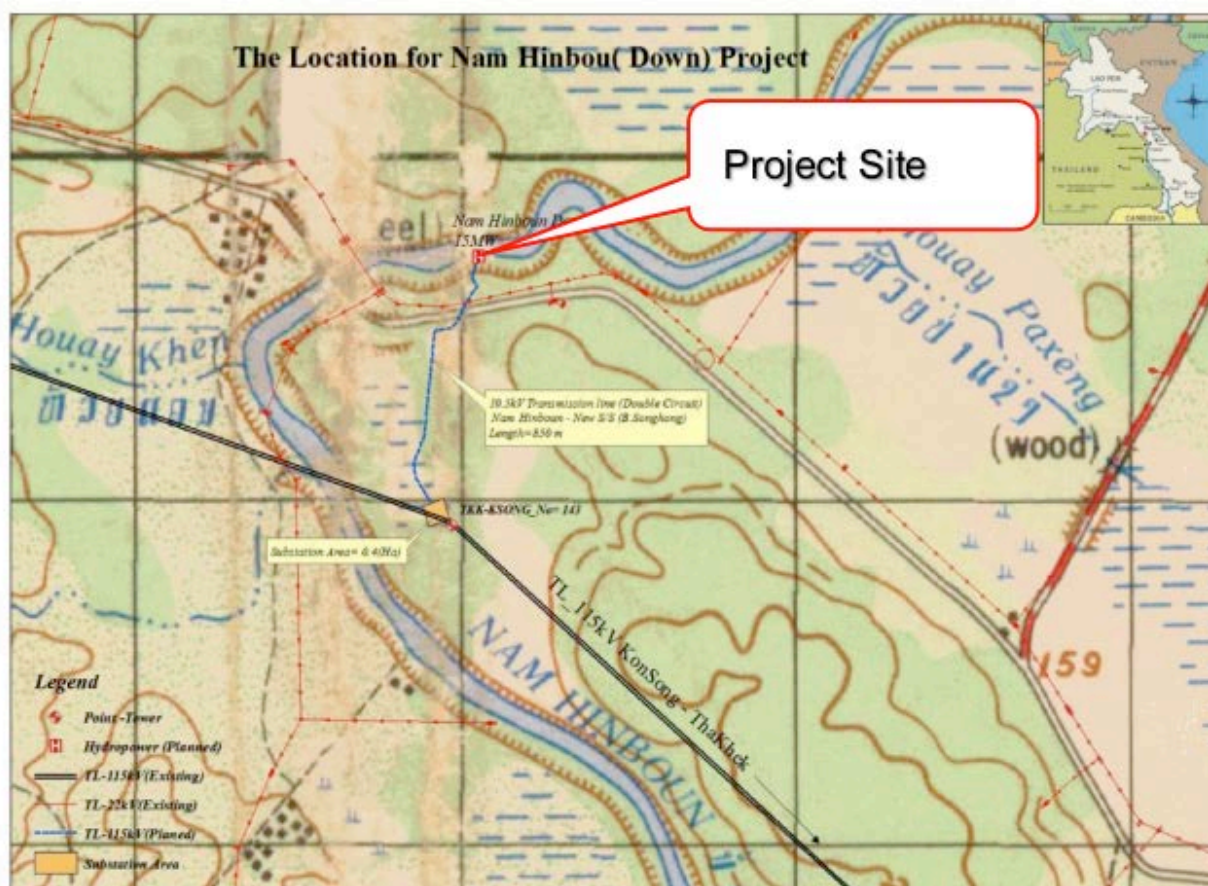
Longitude	104° 34' 19" E
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Explain given coordinates

The project is located in the Songhong village, Hinboun District, Khammouane Province, Lao PDR.

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 Hinboun Downstream Hydropower Project was held in Khamkeo village meeting room, Hinboun district, Kanmouane province, Lao PDR at 09:00 am July 12, 2017 for local villagers, government officer, NGOs, experts etc. The meeting was organized in line with the Gold Standard requirements, and the meetings' agenda is the same exactly.

Category code	Organisation (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
A	Village chief	Mr.Vomgdala pard Thama	Oral invitation	11/7/2017	Y
A	Village chief	Mr.Bounlieng Boudsavong	Oral invitation	11/7/2017	Y
A	Village chief	Mr.Kham Xayavong	Oral invitation	11/7/2017	Y
A	Hamlet head	Mr.Khamdeng Nilavong	Oral invitation	11/7/2017	Y
A	Hamlet deputy head	Mr.Anouluk Xayavong	Oral invitation	11/7/2017	Y
A	Village national front	Mr.Khounpomh ya Meexay	Oral invitation	11/7/2017	Y
A	Sub-Hamlet head	Mr.Phone Sonephachan	Oral invitation	11/7/2017	Y
A	Village forestry	Mr.Vilatda Souliyavong	Oral invitation	11/7/2017	Y
A	Member	Mr.Khamphon Photisarn	Oral invitation	11/7/2017	Y
A	Member	Mr.Khampheng Mounmolard	Oral invitation	11/7/2017	Y
A	Member	Mr.BongPhone	Oral	11/7/2017	Y

		Xayavong	invitation		
A	Deputy village chief	Mr.BounPheng Gonetavi	Oral invitation	11/7/2017	Y
A	Village national front	Mr.Bounchem	Oral invitation	11/7/2017	Y
A	Village security	Mr.Khard	Oral invitation	11/7/2017	Y
A	Village security	Mr.Heng	Oral invitation	11/7/2017	Y
A	Village security	Mr.Thongdam Phothilard	Oral invitation	11/7/2017	Y
A	Deputy village head	Mr.Phounsi Phommadee	Oral invitation	11/7/2017	Y
A	Villager	Mr.Tha Xayavong	Oral invitation	11/7/2017	Y
A	Villager	Mr.Sopho Sombut	Oral invitation	11/7/2017	Y
A	Deputy village chief	Mr. Phengsi	Oral invitation	11/7/2017	Y
A	Deputy village chief	Mr.Loung Phaitdee	Oral invitation	11/7/2017	Y
A	Deputy village chief	Mr.Kham Xayavong	Oral invitation	11/7/2017	Y
A	Village chief	Mr. Khongsavanh Xayasarn	Oral invitation	11/7/2017	Y
A	Deputy village chief	Mr.MounVanhxai Thepvongsa	Oral invitation	11/7/2017	Y
A	Deputy village chief	Mr.Thonsy Souliya	Oral invitation	11/7/2017	Y
A	Retired member	Mr.Bounnard Xayavong	Oral invitation	11/7/2017	Y
A	Retired member	Mr.Khamoui Keokhomphan	Oral invitation	11/7/2017	Y

A	Deputy village chief	Ms.Maly Soulinthong	Oral invitation	11/7/2017	Y
A	Retired member	Ms. Khoumsi	Oral invitation	11/7/2017	Y
A	Deputy village chief	Ms.Khammany Thongsawat	Oral invitation	11/7/2017	Y
A	Sub. Village head	Ms. Sileyang Chanthaland	Oral invitation	11/7/2017	Y
A	Sub. Village head	Ms. Soulin Chanthakhin	Oral invitation	11/7/2017	Y
A	Supervisor	Mr. Pakaysith Bountay	Oral invitation	11/7/2017	Y
B	Officials of local government	Anonymous	Email	7/7/2017	N
B	The head of country	Mr.Khamphoui Thommepha kdee	Oral invitation	11/7/2017	Y
B	Head of district education department	Mr.Savath Phaymasan	Oral invitation	11/7/2017	Y
B	Head of district agriculture department	Mr.Homema Sibounheuang	Oral invitation	11/7/2017	Y
B	Head of district finance department	Mr.Sisouvanh Xayakit	Oral invitation	11/7/2017	Y
C	Lao DNA	Anonymous	Email	7/7/2017	N
D	ESL expert	Nanong Khotpathoum	Phone	7/7/2017	N
E	Gold Standard	Anonymous	Email	7/7/2017	N
F	Global Association for People and the Environment	Anonymous	Email	7/7/2017	N
F	REEEP	Anonymous	Email	7/7/2017	N
F	Mercy Corps	Anonymous	Email	7/7/2017	N
F	WWF	Anonymous	Email	7/7/2017	N

F	Global Environmental Institute (GEI)	Anonymous	Email	7/7/2017	N
F	Green Peace	Anonymous	Email	7/7/2017	N
F	Care International	Anonymous	Email	7/7/2017	N
F	Citizens's Alliance for Saving the Atmosphere and Earth (CASA)	Anonymous	Email	7/7/2017	N
F	Clean Energy Nepal	Anonymous	Email	7/7/2017	N
F	Climate Action Network South Africa	Anonymous	Email	7/7/2017	N
F	David Suzuki Foundation	Anonymous	Email	7/7/2017	N
F	Development Alternatives	Anonymous	Email	7/7/2017	N
F	Earth Advantage, Inc.	Anonymous	Email	7/7/2017	N
F	Enter GHG India	Anonymous	Email	7/7/2017	N
F	Energy Forum	Anonymous	Email	7/7/2017	N
F	Euronatura—enter for Environmental Law and Sustainable Development	Anonymous	Email	7/7/2017	N
F	European Business Council for Sustainable Energy5	Anonymous	Email	7/7/2017	N
F	Fair Climate Network	Anonymous	Email	7/7/2017	N
F	Forum for the Future	Anonymous	Email	7/7/2017	N

F	Fecundation Diversification Colombia	Anonymous	Email	7/7/2017	N
F	Zero: Regional Environment Organization	Anonymous	Email	7/7/2017	N
F	The Climate Group	Anonymous	Email	7/7/2017	N
F	Renewable Energy & Energy Efficiency Institute	Anonymous	Email	7/7/2017	N
F	Philippine Solar Energy Society	Anonymous	Email	7/7/2017	N
F	A World Institute for a Sustainable Humanity (AW.I.S.H)	Anonymous	Email	7/7/2017	N
F	The White more Initiative Society	Anonymous	Email	7/7/2017	N
F	The Environmental Investigation Agency	Anonymous	Email	7/7/2017	N
F	South South North	Anonymous	Email	7/7/2017	N
F	SolarAid	Anonymous	Email	7/7/2017	N
F	SKG Sangha	Anonymous	Email	7/7/2017	N
F	Sibolng Agham at Teknolohiya	Anonymous	Email	7/7/2017	N
F	Shanshui Conservation Center, China	Anonymous	Email	7/7/2017	N
F	PURE the Clean Planet Trust	Anonymous	Email	7/7/2017	N
F	Plantons Utile	Anonymous	Email	7/7/2017	N

F	Indonesian Climate Action Network	Anonymous	Email	7/7/2017	N
F	International Centre for Eradication of Poverty	Anonymous	Email	7/7/2017	N
F	Kangmei Institute of Community Development and Marketing	Anonymous	Email	7/7/2017	N
F	Kiko Network	Anonymous	Email	7/7/2017	N
F	KLIMA	Anonymous	Email	7/7/2017	N
F	Triangle Generation	Anonymous	Email	7/7/2017	N

Individual invitation:

The invitation letter was sent out via email to the above mentioned stakeholders.

The individual invitation letter is given below:

Dear Sir/Madam,

Nam Hinboun Downstream 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 Khamkeo village meeting room, Hinboun district, Kanmouane province, Lao PDR & Convention at 9:00 am July 12th, 2017, as the project participants, we humbly accept the advises, 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

Rasita Power Co., Ltd.

Contact Person: Mr Dam

Mobile: 00856-20-556611844

South Pole Carbon Asset Management Ltd.

Contact Person: Ms.Jessie Zhang

Telephone: 0086-10-84549953

By Email: j.zhang@thesouthpolegroup.com

Photo of the individual invitation:

Invitation for Gold Standard Local Stakeholder Consultation of NamHinboun Downstream Hydropower Project in Laos ☆

发件人: **Jiaxun Zhang** <j.zhang@thesouthpolegroup.com> 自动归档
(由 j.zhang@southpolecarbon.com 代发)

时间: 2017年7月7日(星期五) 中午11:08

收件人: Yuhuan Shen <shirley@cdmgoldstandard.org>; Annyta Luo <annyta@cdmgoldstandard.org>

抄送: info <info@goldstandard.org>; info <info@reeep.org>; wfchina <wfchina@wfchina.org>; liam <liam@wwfthai.org>; dmcIntosh <dmcIntosh@uk.mercycorps.org>; donorservices <donorservices@mercycorps.org>; Shiping Chen <spchen@geichina.org>; gei <gei@geichina.org>; greenpeace.china <greenpeace.china@hk.greenpeace.org>; office <office@casa.bnet.jp>; ed <ed@enpho.org>; dorahl <dorahl@ghouse.org.za>; paul <paul@davidsuzuki.org>; tara <tara@devault.org>; spenrith <spenrith@earthadvantage.org>; narendra <narendra@energgh.in>; eforum <eforum@sltnet.lk>; geral <geral@euronatura.pt>; lambing <lambing@e5.org>; sudha <sudha@fairclimate.com>; i.watt <i.watt@forumforthefuture.org.uk>; carloskurimoto <carloskurimoto@ecodiversidad.org>; johannes <johannes@zeroregional.com>; ihe <ihe@theclimategroup.org>; kndhlukula <kndhlukula@polytechnic.edu.na>; rssangalang <rssangalang@yahoo.com>; michael <michael@awish.net>; bcjtom <bcjtom@shaw.ca>; bismarck <bismarck@eia-global.org>; Stefan Raubenheimer <stef@southsouthnorth.org>; nick <nick@solar-aid.org>; SKG Sangha <skgsangha@gmail.com>; vmlopez12 <vmlopez12@yahoo.com>; fyang <fyang@shanshui.org>; rabinowitz <rabinowitz@bre.co.uk>; eric.lehavre <eric.lehavre@wanadoo.fr>; fabby <fabby@nusa.or.id>; bubale <bubale@rogers.com>; wujiawei1128 <wujiawei1128@yahoo.com.cn>; kikonet <kikonet@jca.apc.org>; klima <klima@observatory.ph>; jjarvie <jjarvie@hq.mercycorps.org>; fundclimahonduras <fundclimahonduras@yahoo.com>; Southasen BOULOM <mks.soulom@gmail.com>; Xuan Yang <x.yang@thesouthpolegroup.com>; 苏新芳 <jiaofang.su@htne-tech.com>; 邓恒 <deng.h@htne-tech.com>

附件: 4 个 (Invitation Letter_English.pdf...)

Dear Secretariat of Gold Standard,

Dear GS Experts,

Dear International and Local NGOs,

Dear Sir/Madam whoever concerns,

Rasita Power Co., Ltd. and Swiss Carbon Assets Ltd. are planning to conduct Local Stakeholder Consultation for "Nam Hinboun Downstream Hydropower Project".

The project is a low-dam type with the power station located in the riverbed and total installed capacity is 15 MW. It is to generate electricity to local power grid thus contribute to the local electrification.

The proposed project will be developed under both UNFCCC and GS as a GS CDM project.

Please find attached the following:

01. Invitation Letter_English
02. Non-technical summary_English
03. Invitation Letter_Laos
04. Non-technical summary_Laos

With this invitation letter, the project participants would like to invite you to participate/witness this Gold Standard Local Stake Consultation meeting. The meeting is to be held at Khamkeo village meeting room, Hinboun district, Kammuane province, Lao PDR & Convention at 9:00 am 12 July (Wednesday) 2017.

In case, physical participation is not possible, please send in your comments to the undersigned below by 12 July 2017.

Rasita Power Co., Ltd.

The contact person: Mr. Dam

Mobile:00856-20-556611844

Swiss Carbon Assets Ltd.
Contact Person: Ms. Jessie Zhang
Phone: 0086-10-8454 9953

Email: j.zhang@southpolecarbon.com

Best regards,

Jessie

Public invitation:

The following invitation letter was published in Laotian via village bulletins or oral notice or phone.

The Laotian version of public invitation is given below:

ຮຽນທ່ານ/ນາງ,

ໂຄງການເຂື່ອນໄຟຟ້ານ້ຳທົນບູນຕອນລຸ່ມແມ່ນໂຄງການທີ່ເຂົ້າຄັດເລືອກໃນ
ມາດຕະຖານທອງຄຳການປ່ອຍກາກບອນຕໍ່າCDM. ໃນການຈັດກອງປະຊຸມໃນ
ຄັ້ງນີ້ແມ່ນຈະໄດ້ເກັບກຳຂໍ້ມູນຄຳຄິດເຫັນແລະຜົນປະໂຫຍດຂອງຜູ້ທີ່ກ່ຽວຂ້ອງກັບ
ໂຄງການນີ້, ອີງຕາມຄວາມຕ້ອງການຂອງມາດຕະຖານທອງຄຳ

ກອງປະຊຸມໃນຄັ້ງນີ້ຈະໄດ້ຈັດຂຶ້ນທີ່: ຫ້ອງປະຊຸມບ້ານຄຳແກ້ວ, ເມືອງທົນບູນ,
ແຂວງຄຳມ່ວນ ສປປ ລາວ, ວັນເວລາ: 12.07.2017 ຕອນ 9:00 ໂມງເຊົ້າ, ເປັນຜູ້ນຶ່ງ
ເຂົ້າໃນກອງປະຊຸມ, ທາງພວກເຮົາເຕັມໃຈຈະຮັບຟັງຄຳຄິດເຫັນແລະແນະນຳຂອງ
ທຸກຄົນທີ່ມີຜົນປະໂຫຍດກ່ຽວຂ້ອງ, ຫວັງຫວ່າທ່ານຈະມາຮ່ວມ. ຈະມີການອະທິບາຍ
ແລະວິຈານເກັບກຳຂໍ້ມູນ. ຍິນດີຕອນຮັບ.

ເປັນກຽດຢ່າງສູງ

ບໍລິສັດພະລັງງານຮາຊິຕ້າຈຳກັດ

ຜູ້ຕິດຕໍ່: ທ່ານ ຄອນພະຈັນ

ມືຖື: 00856-20-556611844

South Pole Carbon Asset Management Ltd

ຜູ້ຕິດຕໍ່: Ms Jessie Zhang

ມືຖື: 0086 10 84549953

The English version of public invitation letter is given below:

Dear Sir/Madam,

Nam Hinboun Downstream 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 Khamkeo village meeting room, hinboun district, Kanmouane province, Lao PDR & Convention at 9:00 am July 12th (wednesday), 2017, 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

Rasita Power Co., Ltd.
Contact Person: Mr Dam
Mobile: 00856-20-556611844

South Pole Carbon Asset Management
Ltd. Contact Person: Ms Jessie Zhang
Telephone: 0086-10-84549953

Photo of the public invitation:



Agenda

Registration

Opening of the meeting and Explanation of the project

Project overview and Introduction

Suggestions by participants

Discussion of continuous input/grievance mechanism and Blind SD exercise

The free discussion of the participants and Discussion on monitoring SD

Fill in the form and Recovery

Closure of the meeting

During the consultation meeting, the project owner introduced the information of the project. 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 air in local context polluted?	Yes	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 dust emission while the mitigation measure would be adopted.
How is the air in local context before and during the construction?	Yes	<p>The sources of air emission and fugitive dust will likely be from the drilling, crushing, and hauling associated with the construction activities.</p> <p>However, the dam construction is not directly linked to industrial processes, and thus the impact of emission from specific contaminants, organic chemical compounds and particulate matters will be minimized except where the work involves welding and aerosol spraying.</p> <p>Furthermore, the representative mentioned that a series of mitigation measure would be prepared for the local people to improve their local air .</p>
Does this project affect to the quality and quantity of water?	Yes	<p>Water quality issue in this stretch of the Nam Hinboun is complex as it involves many factors. The NHDHP will concern with ensuring that its activities will not lead to worsening the water quality of the river through applying the following measures:</p> <p>Strictly control the use of fuel and other hydrocarbon products such as grease, oils and lubricants to prevent leachate or run-off that can cause soil and water contamination.</p>

		<p>Fuel and hydrocarbon products should be stored in specially built containers in bounded areas with an impermeable base.</p> <p>Washing of vehicles or equipment will be required to designated wash down areas.</p> <p>Wastewater treatment systems need to be installed at each site to collect and treat raw sewage from various sources. These systems need to be maintained throughout the operation phase to enable the treatment of wastewater from all permanent site facilities.</p> <p>Long term monitoring would be essential for the successful management and mitigation of the impacts relating to waterborne disease in the local communities, both upstream and downstream of the sites.</p> <p>Therefore, there would be minor impact on the water utilization for nearby villages.</p>
Does this project affect to the protection of biodiversity?	Yes	<p>The project area is of predominantly secondary and disturbed forestland and patches of remnant woodland. There is no presence of primary forest nor are there any NPAs, PPAs or DPAs located within or nearby the Project area. These village conservation forests will, among other uses, provide habitats for wildlife and healthy forest ecosystem services. It is important for the project to make sure that threats to species will not be resulted from the presence of the construction workforce. At the</p>

		<p>same time, presence of the workforce should not result in increased pressures on the local harvest and use of NTFPs.</p> <p>For this reason, direct project impact on sensitive forest areas and resources will be minimal during the construction phase and negligible during operation.</p>
Do the project conditions affect the soil situation?	Yes	<p>According to the IEE, to prevent soil erosion, the following measures will be undertaken, for example: (1) Schedule construction activities during the dry season (low flows), where possible; (2) Implement appropriate erosion control and drainage management measures to minimize the potential impacts associated with land clearance; (3) Minimize cleared areas and re-vegetate exposed sites with grass or plants to reduce sediment run-off, etc. Thus, status of soil erosion will be mitigated.</p>
Does the pollution from the project include sound or light pollution?	Yes	<p>For this, main resources of noise are dam construction blasting, drilling, dredging, operation of heavy machinery and equipment, transport operation. The mitigation's as follows:</p> <p>All construction equipment and machinery shall comply with noise emission standard.</p> <p>Avoid night shift work and work on Sundays unless special permit is granted.</p> <p>Use of PPE among workers and on-site personnel exposed to</p>

		<p>noisy work.</p> <p>The project doesn't exist light pollution.</p> <p>Therefore, this project will not cause light pollution and significant noise pollution.</p>
Will the implementation of the project help improve the working environment and quality of the workers?	Yes	<p>The working environment of the workers will strictly implement as following measures:</p> <p>Promotion of preventive measures, eg, use of condoms.</p> <p>Regular site clean-ups, draining water bodies that can harbor disease vector (mosquito).</p> <p>Conduct hygiene and sanitation awareness programmed.</p> <p>Support local initiatives on disease prevention campaigns.</p> <p>Siting fuel depot away from the living buildings and residential areas.</p>
Will the project provide jobs and generate incomes?	Yes	<p>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.</p>
<p>All comments from stakeholders are taken into account and promptly responded. For the minutes of the meeting and other details regarding the consultation meeting, please refer to the Local Stakeholder Consultation report.</p>		





Photos of the 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.

The relevant content will be added after the stakeholder feedback round is completed.

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	On the project site and each village head of villages around the project area	Project manager Village heads

Telephone access	00856-21-450062 +41(0)227887080	General manager GS expert
Internet/email access	Somphone Oudone<rasita@live.cn> info@goldstandard.org annyta.luo@goldstandard.org	General manager GS expert

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.	<p>According to the IEE, the project will set a flood discharge gate which will partially open in dry season and fully open in rainy season in order to ensure water flow for downstream water use. Therefore, the human rights of water resource usage will not be impacted by the project.</p> <p>No cultural property was spotted in the project area as per IEE.</p> <p>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</p>	Low	<p>No mitigation measure is required for this indicator.</p> <p>Project will be implemented in compliance with regulations.</p>

	International Covenant on Economic, Social and Cultural Rights (ICESCR) ² . 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 generated by the new hydropower station.		
2. The project does not involve and is not complicit in involuntary resettlement.	According to the Initial Environment Examination (IEE) report during the preparation stage, a number of houses and associated built household assets within the dam site on the left hand side in Ban Khamkeo may require relocation due to their too close proximity to the dam. While the exact extent of this impact remains to be further ascertained in consultation with the concerned homeowners, it is necessary that attention is paid to the possible relocation of those homes and their assets.	Medium	<p>If relocation is to take place, the following should be undertaken to mitigate the impact to resolve the situation.</p> <ul style="list-style-type: none"> • Carry out a closer examination of the few houses and associated household assets (only those that will be made partially or entirely unusable) which will need to be relocated, especially if so wished by the homeowners. • The Developer in consultation with the village authority, homeowners, concerned district offices and authority works out appropriate compensation measures to be discussed and

² <http://www1.umn.edu/humanrts/research/ratification---laos.html>

			<p>agreed upon with the owners.</p> <ul style="list-style-type: none"> • Compensation can either be in-kind (land for land, house for house) or monetary compensation as will be agreed to with the owners³⁴. If land for land is the preferred option to the affected persons, the Developer will need to locate alternative sites (possibly within the village) for the relocation subject to consensus of the affected people. The principle is that financial compensation should be made on the full replacement cost basis. • Informing affected households of the detailed schedule of construction activities well in advance of the construction. This will allow the residents to plan their land use activities and be prepared for relocation if so necessary. <p>All costs associated with the removal and transportation of the household assets, items</p>
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			and materials to the new site or the cost of new building materials will be borne by the Project.
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 complicit 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.
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 ³ , 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 ⁴ , including five of the eight ILO core Conventions ³⁴ (covering forced	Low	No mitigation measure is required for this indicator.

³ http://www.na.gov.la/docs/eng/laws/soc_cult/Labour%20%282006%29%20Eng.pdf

⁴ <http://www.ilo.org/asia/countries/lao-peoples-democratic-republic/lang--en/index.htm>

	labour, equal, discrimination and child labour). 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. A hydro project in general does not expose workers to unsafe or unhealthy work	Low	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.

	environments in terms of toxins or chemicals.		
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 a hydropower project. According to IEE, the project will trap sediment in very short time during impoundment then water will be released and maintain in natural condition. 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) 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.	Low	<p>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".</p> <p>Precautionary principles 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

			<p>management facility for segregation prior to reuse or to sending off-site for recycling;</p> <p>-Restricted working hour in construction area and times for ground blasting;</p> <p>-Provide adequate hearing protection to Construction workers when noise levels of 70-80 dB or above due to the blasting;</p> <p>-Buffer zones of vegetation shall be left along stream banks to maintain riparian habitats and prevent sedimentation;</p> <p>-Rehabilitation of land after construction works are completed including tree planting and topsoil restoration.</p>
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	<p>According to the IEE, the project will set a flood discharge gate which will partially open in dry season and fully open in rainy season in order to ensure downstream water use.</p> <p>The project does not involve and is not</p>	Low	Company will comply with all national regulations.

(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.	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 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.	<p>Lao PDR has published relevant law⁵ to against corruption. Furthermore, Lao PDR ratified the UN Convention against Corruption⁶ 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.</p> <p>The project is a private- owned, the project owner does not condone or support corruption.</p> <p>Ref: Penal Law, Article 157</p>	Low	No mitigation measure is required for this indicator.

⁵ http://www.na.gov.la/docs/eng/laws/pub_adm/Penal%20%282005%29%20Eng.pdf

⁶ <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
Air quality	<p>According to the IEE, air and dust impact mainly occurred during construction period. The following mitigation measures are suggested in the IEE:</p> <p>Exposed areas will be minimized as far as practical and progressively re-vegetation of cleared areas will be carried out.</p> <p>All vehicles movements will be restricted to designated access routes and haul roads.</p> <p>Routine watering the road surface or any exposed areas being worked in to suppress dust emission</p> <p>The area for waste burning should not be within 5 km of a village.</p> <p>Burning of waste will not be undertaken during severe wind condition.</p>	<p>Related to MDG</p> <p>Goal 7: Ensure environmental sustainability</p> <p>Target 7.a Integrate the principles of sustainable development into country policies and programme and reverse the loss of environmental resources</p>	<p>Parameter:</p> <p>Construction period: maintain log of water sprinkling with time, date and signature of project manager responsible.</p> <p>Dust emission occurs due to the construction process; however, the emission can be mitigated using appropriate measures. On the other hand, the project will reduce NO_x, SO₂ emissions due to combustion of fossil fuel for electricity generation in the baseline scenario.</p> <p>Thus, this sustainable indicator scores a “+”.</p>	+

Water quality and quantity	<p>Construction period:</p> <p>Treat runoff from construction sites, if necessary, prior to off-site discharge. Install appropriate drainage at construction sites. Hazardous materials should be stored and used within properly bounded areas.</p> <p>Collect and treat of wastewater from camp sites prior to discharge. Septic tank systems will be installed at each construction work camp and monitored regularly in case of septic tank are full and need to be emptied.</p> <p>Dispose of residual waste in suitably designed facilities to prevent contamination of surface runoff. Locate waste disposal facilities away from natural drainage lines, above the groundwater table, and within low permeability soils. Routine water quality monitoring.</p> <p>Operation period:</p> <p>Routine water quality monitoring.</p>	<p>Related to MDG Goal 7:</p> <p>Ensure environmental sustainability</p> <p>Target 7.b Reduce biodiversity loss.</p>	<p>Parameter:</p> <p>Perform routine water quality monitoring as per regulatory requirements in construction and operation period.</p> <p>During the project construction period, washing waste water and waste water with oil from machinery were produced. During the project operation period, domestic waste water and sanitary waste water is generated. The project owner applies treatment to discharged waste water to make sure it is complied with the local regulation.</p> <p>Thus, this indicator therefore scores "0".</p>	0
Soil condition	<p>Pre-construction period:</p> <p>Schedule in-stream work during dry season (low flows), where possible.</p>	<p>Related to MDG Goal 7: Ensure environmental sustainability</p>	<p>Parameter:</p> <p>Perform periodical soil erosion survey and implement</p>	0



The erosion and sediment control works will be implemented prior to the commencement of any construction works on the site. Identify areas that are potentially sensitive to erosion. All erosion and sediment control will be designed for a minimum of a 2 year ARI flood. Divert clean runoff away from construction areas where possible. Install suitable erosion and sediment control structures at construction sites and spoil disposal areas.

Construction period:

Runoff velocities will be reduced to have stable flow downstream by minimizing the length of flow paths, constructing any channels with gentle gradients and providing rough lining for steeper channels.

Treat sediment-laden runoff generated by construction activities prior to it entering watercourses. This includes installation of sediment collection devices (sediment basin, silt fences and sediment traps) which will capture sediment. Review of effectiveness and adequacy of existing erosion and sediment controls will be implanted. All erosion and sediment

mitigation measures if necessary

Proper measures have been adopted to prevent negative impact on soil condition due to the project.

Given the appropriate mitigation measures, this indicator scores "0".



	<p>controls will be visually inspected to ensure their ongoing effectiveness. Minimize area of land cleared. Retain riparian vegetation to filter runoff where possible. Monitor land clearance activities carefully. Progressively clear and rehabilitate where possible. Minimize the length and steepness of slopes of spoil disposal and top soil stockpiles (e.g. use bench terraces). At cleared sites, install erosion control measures prior to the wet season. Maintain vegetation in areas sensitive to erosion. Periodically survey areas that are sensitive to erosion to determine any requirement for stabilization.</p> <p>Operation period:</p> <p>Runoff velocities will be reduced to have stable flow downstream by minimizing the length of flow paths, constructing any channels with gentle gradients and providing rough lining for steeper channels.</p>			
Other pollutants	<p>To reduce potential noise impact on the communities and the construction workers, the following specific mitigation measures are proposed:</p>	<p>Related to MDG Goal 7: Ensure environmental sustainability</p>	<p>Parameter:</p> <p>Construction period: solid/liquid wastes management record</p>	<p>0</p>

	<p>It is important that the construction equipment, machinery and technology used meet acceptable standards in terms of noise emission level. Proper machinery and equipment maintenance is also critical to reduce noise level.</p> <p>Project activities shall be carried out within the hours of 06:00-18:00, Monday to Saturday.</p> <p>Transportation in service of the construction should be limited to the daytime, avoid extensive honking.</p> <p>It is important to consider the restriction on high music sound level from the labour camp at night since the camp is located relatively close to the residential areas.</p>		<p>Operation period: noise survey, regular maintenance of machinery and noise prevention provisions such as ear plugs</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>	
Biodiversity	<p>Conservation of locally adapted species and ecosystems are done via ensuring water flow and recovery of vegetation after construction.</p> <p>Management and mitigation of potential impacts on forest resources and biodiversity will be handled as follows:</p> <p>Having rules and regulations</p>	Related to MDG Goal 7: Ensure environmental sustainability	<p>Parameter:</p> <p>Biodiversity protection procedure in place</p> <p>There is no endangered species in the project on-site.</p> <p>Fish fry will be bred into the river if necessary. The underground water is not</p>	0

	<p>prohibiting the project workers' engagement in the collection and harvest of local NTFPs including refraining from wildlife hunting, consumption, possession and trade. Sufficient food requirement of the workforce should be provided by the project. The prohibitions are applicable also to camp followers should they be present;</p> <p>No wood cutting will be permitted in village forest areas for fuelwood or construction materials. All wood required for the dam construction and used by the workforce will be supplied from legitimate sources outside the project area;</p> <p>The Developer shall plan and conduct project related activities within the identified perimeter of the allocated land.</p>		<p>affected.</p> <p>Thus, given the 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: records of trainings and labor conditions</p> <p>Compared to the baseline scenario, training 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</p>	+

			<p>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</p> <p>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: salary record of Job opportunities provided by the project to local residents</p> <p>Job opportunities will be provided to the local residents, which will bring local people especially the poor the employment chances.</p> <p>Thus, this sustainable indicator scores a “+”.</p>	+
Access to affordable and clean energy services	-	<p>Target 8.B and</p> <p>8.c Address the special needs of the least developed countries, landlocked developing countries and small island developing States.</p>	<p>Parameter:</p> <p>the net electricity generated to the local grid. Power generation record and evidence such as invoices /receipts will be used for determine the power generation.</p> <p>Before the construction of the project, the local residents adopt firewood as the main</p>	+

			<p>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 does not have gender barrier for employment.</p> <p>There is no significant impact on this indicator resulting from the project development.</p> <p>Thus this indicator scores “0”.</p>	0
Quantitative employment and income generation	-	<p>MDG Target</p> <p>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:</p> <p>Number of jobs created and recorded by the project developer</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</p>	+

			<p>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 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.	<p>The chance of the project bringing more investment is unclear.</p> <p>Thus this indicator scores “0”.</p>	0
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. No new technology is import from outside.</p> <p>Thus, this sustainable indicator scores a “0”.</p>	0

SECTION G. Sustainability Monitoring Plan

Copy Table for each indicator

No		1
Indicator		Air quality
Mitigation measure		<p>According to the IEE, air and dust impact mainly occurred during construction period. The following mitigation measures are suggested in the IEE:</p> <p>Exposed areas will be minimized as far as practical and progressively re-vegetation of cleared areas will be carried out.</p> <p>All vehicles movements will be restricted to designated access routes and haul roads.</p> <p>Routine watering the road surface or any exposed areas being worked in to suppress dust emission</p> <p>The area for waste burning should not be within 5 km of a village.</p> <p>Burning of waste will not be undertaken during severe wind condition.</p>
Repeat for each parameter		
Chosen parameter		Maintain log of water sprinkling with time, date and signature of project manager responsible
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
	When	During construction
	By who	Project owner

No		2
Indicator		Water quality and quantity

Mitigation measure		<p>Construction period:</p> <p>Treat runoff from construction sites, if necessary, prior to off-site discharge. Install appropriate drainage at construction sites. Hazardous materials should be stored and used within properly bounded areas.</p> <p>Collect and treat of wastewater from camp sites prior to discharge. Septic tank systems will be installed at each construction work camp and monitored regularly in case of septic tank are full and need to be emptied.</p> <p>Dispose of residual waste in suitably designed facilities to prevent contamination of surface runoff. Locate waste disposal facilities away from natural drainage lines, above the groundwater table, and within low permeability soils. Routine water quality monitoring.</p> <p>Operation period:</p> <p>Routine water quality monitoring.</p>
<i>Repeat for each parameter</i>		
Chosen parameter		Perform routine water quality monitoring as per regulatory requirements in construction and operation period.
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	Perform routine water quality monitoring as per regulatory requirements in construction and operation period.
	When	Annually
	By who	The local environment monitoring department

No	3
Indicator	Soil condition
Mitigation measure	<p>Pre-construction period:</p> <p>Schedule in-stream work during dry season (low flows), where possible. The erosion and sediment control works will be implemented prior to the commencement of any construction</p>

	<p>works on the site. Identify areas that are potentially sensitive to erosion. All erosion and sediment control will be designed for a minimum of a 2 year ARI flood. Divert clean runoff away from construction areas where possible. Install suitable erosion and sediment control structures at construction sites and spoil disposal areas.</p> <p>Construction period:</p> <p>Runoff velocities will be reduced to have stable flow downstream by minimizing the length of flow paths, constructing any channels with gentle gradients and providing rough lining for steeper channels.</p> <p>Treat sediment-laden runoff generated by construction activities prior to it entering watercourses. This includes installation of sediment collection devices (sediment basin, silt fences and sediment traps) which will capture sediment. Review of effectiveness and adequacy of existing erosion and sediment controls will be implanted. All erosion and sediment controls will be visually inspected to ensure their ongoing effectiveness. Minimize area of land cleared. Retain riparian vegetation to filter runoff where possible. Monitor land clearance activities carefully. Progressively clear and rehabilitate where possible. Minimize the length and steepness of slopes of spoil disposal and top soil stockpiles (e.g. use bench terraces). At cleared sites, install erosion control measures prior to the wet season. Maintain vegetation in areas sensitive to erosion. Periodically survey areas that are sensitive to erosion to determine any requirement for stabilization.</p> <p>Operation period:</p> <p>Runoff velocities will be reduced to have stable flow downstream by minimizing the length of flow paths, constructing any channels with gentle gradients and providing rough lining for steeper channels.</p>
<i>Repeat for each parameter</i>	
Chosen parameter	Perform periodical soil erosion survey and implement mitigation measures if necessary
Current situation of parameter	Soil naturally covered by plants or stones
Estimation of baseline situation of parameter	N/A
Future target for parameter	Proper measures have been adopted to prevent negative

		impact on soil condition due to the project.
Way of monitoring	How	Perform periodical soil erosion survey and implement mitigation measures if necessary
	When	Annually
	By who	Project Owner

No	4
Indicator	Other pollutants
Mitigation measure	<p>To reduce potential noise impact on the communities and the construction workers, the following specific mitigation measures are proposed:</p> <p>It is important that the construction equipment, machinery and technology used meet acceptable standards in terms of noise emission level. Proper machinery and equipment maintenance is also critical to reduce noise level.</p> <p>Project activities shall be carried out within the hours of 06:00-18:00, Monday to Saturday.</p> <p>Transportation in service of the construction should be limited to the daytime, avoid extensive honking.</p> <p>It is important to consider the restriction on high music sound level from the labour camp at night since the camp is located relatively close to the residential areas.</p>
<i>Repeat for each parameter</i>	
Chosen parameter	<p>Construction period: solid/liquid wastes management record</p> <p>Operation period: noise survey, regular maintenance of machinery and noise prevention provisions such as ear plugs</p>
Current situation of parameter	N/A
Estimation of baseline situation of parameter	N/A
Future target for parameter	Minimize the impact of this project to the around residents and construction workers according to the local regulations.

Way of monitoring	How	Construction period: solid/liquid wastes management record Operation period: noise survey, regular maintenance of machinery and noise prevention provisions such as ear plugs
	When	Construction period and operation period
	By who	The local environment monitoring department

No		5
Indicator		Biodiversity
Mitigation measure		<p>Conservation of locally adapted species and ecosystems are done via ensuring water flow and recovery of vegetation after construction.</p> <p>Management and mitigation of potential impacts on forest resources and biodiversity will be handled as follows:</p> <p>Having rules and regulations prohibiting the project workers’ engagement in the collection and harvest of local NTFPs including refraining from wildlife hunting, consumption, possession and trade. Sufficient food requirement of the workforce should be provided by the project. The prohibitions are applicable also to camp followers should they be present;</p> <p>No wood cutting will be permitted in village forest areas for fuelwood or construction materials. All wood required for the dam construction and used by the workforce will be supplied from legitimate sources outside the project area;</p> <p>The Developer shall plan and conduct project related activities within the identified perimeter of the allocated land.</p>
Repeat for each parameter		
Chosen parameter		Biodiversity protection procedure in place
Current situation of parameter		Natural situation
Estimation of baseline situation of parameter		N/A
Future target for parameter		Fish fry will be bred into the river if necessary. The underground water is not affected.
Way of monitoring	How	Biodiversity protection procedure in place

	When	Annually
	By who	Project Owner

No		6
Indicator		Quality of employment
Mitigation measure		
<i>Repeat for each parameter</i>		
Chosen parameter		Records of trainings and labor conditions
Current situation of parameter		N/A
Estimation of baseline situation of parameter		N/A
Future target for parameter		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.
Way of monitoring	How	Records of trainings and labor conditions
	When	Annually
	By who	Project owner

No		7
Indicator		Livelihood of the poor
Mitigation measure		
<i>Repeat for each parameter</i>		
Chosen parameter		Salary record of Job opportunities provided by the project to local residents
Current situation of parameter		N/A
Estimation of baseline situation of parameter		N/A
Future target for parameter		Job opportunities will be provided to the local residents, which will bring local people especially the poor the employment chances.

Way of monitoring	How	Salary record of Job opportunities provided by the project to local residents
	When	Annually
	By who	Project owner

No		8
Indicator		Access to affordable and clean energy services
Mitigation measure		
<i>Repeat for each parameter</i>		
Chosen parameter		Net electricity generated to the local grid.
Current situation of parameter		The local residents adopt firewood as the main energy source.
Estimation of baseline situation of parameter		N/A
Future target for parameter		The local residents adopt firewood as the main energy source.
Way of monitoring	How	Project owner will monitor the net electricity generation according to the electricity generation meter
	When	Continuous
	By who	Project owner

No	9
Indicator	Quantitative employment and income generation
Mitigation measure	
<i>Repeat for each parameter</i>	
Chosen parameter	Number of jobs created and recorded by the project developer
Current situation of parameter	N/A
Estimation of baseline situation of parameter	Employment and income due to the project does not exist
Future target for parameter	Provide jobs and training opportunities for local residents,

		reduce poverty.
Way of monitoring	How	Number of jobs created and recorded by the project developer
	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 14.68%. The analysis shows that without the revenue of CERs, the IRR of the project will be 9.92%, 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: 18 August 2017

The Gold Standard Foundation

79 Avenue Louis Casai

Geneva Cointrin, CH-1216

Switzerland

RE: Declaration of Non-Use of Official Development Assistance by Project Owner of

RASITA POWER CO.,LTD

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

MR. SOMPHONE OUDONE

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



