

TEMPLATE

KEY PROJECT INFORMATION & PROJECT DESIGN DOCUMENT (PDD)

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VERSION **v.1.5**

RELATED SUPPORT

[- TEMPLATE GUIDE Key Project Information & Project Design Document](#)

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KEY PROJECT INFORMATION

GS ID of Project	12796
Title of Project	Laos Green Benefit Cookstove Project
Time of First Submission Date	
Date of Design Certification	
Version number of the PDD	01
Completion date of version	13/09/2024
Project Developer	Guangzhou Iceberg Environmental Consulting Services Co., Ltd.
Project Representative	Guangzhou Iceberg Environmental Consulting Services Co., Ltd.
Project Participants and any communities involved	N/A
Host Country (ies)	The Lao People's Democratic Republic
Activity Requirements applied	<input checked="" type="checkbox"/> Community Service Activity <input type="checkbox"/> Renewable Energy <input type="checkbox"/> Land-Use and Forests Activity Requirements /Risks & Capacities <input type="checkbox"/> N/A
Scale of the project activity	<input type="checkbox"/> Micro scale <input type="checkbox"/> Small Scale <input checked="" type="checkbox"/> Large Scale
Other Requirements applied	N/A
Methodology (ies) applied and version number	Reduced Emissions from Cooking and Heating (RECH):TPDDTEC', Version 4.0
Product Requirements applied	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A
Project Cycle:	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Retroactive

Table 1 – Estimated Sustainable Development Contributions

SUSTAINABLE DEVELOPMENT GOALS TARGETED	SDG IMPACT (DEFINED IN B.6)	ESTIMATED ANNUAL AVERAGE	UNITS OR PRODUCTS
13 Climate Action	13.2.2: Total greenhouse gas emissions per year	119,779	tCO ₂ e
1 No poverty	1.1.1: Proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural)	100000	number
2 Zero hunger	2.1.1: Prevalence of undernourishment	60.00%	Fraction
3 Good health and well-being	3.9.1: Mortality rate attributed to household and ambient air pollution	55.08%	Fraction
4 Quality education	4.3.1: Participation rate of youth and adults in formal and non-formal education and training in the previous 12 months, by sex	33.33%	Fraction
5 Gender equality	5.4.1: Proportion of time spent on unpaid domestic and care work, by sex, age, and location	39.68%	Fraction
7 Affordable and clean energy	7.1.2: Proportion of population with primary reliance on clean fuels and technology	90%	Fraction
8 Decent work and economic growth	8.3.1: Proportion of informal employment in total employment, by sector and sex	7	person
9 Industry, Innovation, and Infrastructure	9.3.1: Proportion of small-scale industries in total industry value added	400	device/month
15 Life on land	15.1.1: Forest area as a proportion of total land area	82,154	ton

SECTION A. DESCRIPTION OF PROJECT

A.1 Purpose and general description of project

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The project involves distribution of fuel-efficient improved cookstoves (hereinafter referred to as "ICSs") in the rural area of the Lao People's Democratic Republic. The ICSs disseminated through this project to replace the old low efficient baseline cookstoves.

Through this project, Guangzhou Iceberg Environmental Consulting Services Co., Ltd. (hereinafter referred to as "Iceberg") plans to distribute approximately 100,000 ICSs free of charge to households in rural area of Laos in 2 years.

The baseline scenario existing prior to the implementation of the project is widely used traditional solid-fuel cooking solutions such as three-stone fires. Due to low income, people would have continued to use them to meet thermal energy needs without project activity. They spent plenty of time to collect firewood every day due to low combustion efficiency of baseline cooking devices. The ICS will burn wood more efficiently thereby improving thermal transfer to pots, hence saving firewood. The project will reduce the GHG emission by less non-renewable firewood combustion, which will protect the forest.

A.1.1. Eligibility of the project under Gold Standard

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The project meets the eligibility criteria as per section 3.1.1 of GS4GG Principles & Requirements, including the following:

No.	Eligibility criterion	How the project complies
a	Types of Project: Eligible projects shall include physical action/implementation on the ground. Pre-identified eligible project types are identified in the Eligibility Principles and Requirements section.	The project involves distributing improved cookstoves to people in rural area of Laos.
b	Location of Project: Projects may be located in any part of the world.	The Lao People's Democratic Republic
c	Project Area, Project Boundary and Scale: The Project Area and Project Boundary shall be defined. Projects may be developed at any scale	The ICS will be distributed to people in rural area of Laos who used traditional

	<p>although certain rules, requirements and limitations may apply under specific Activity Requirements, Impact Quantification Methodologies and Products Requirements. In order to avoid double counting the Project shall not be included in any other voluntary or compliance standards programme unless approved by Gold Standard (for example through dual certification). Also, if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature, the project shall demonstrate that there is no double counting of impacts at design and performance certification (for example use of similar technology or practices through which the potential arises for double counting or misestimation of impacts amongst projects).</p>	<p>wood-based stove (i.e. three stone fires) before. The GPS of the household will be recorded. And each ICS distributed in this project has a unique identification ID, and the user's basic information (e.g. name, location, unique identification ID) will be recorded. The ICS also will be labelled with programme logo. Hence, the above methods can make sure that it will avoid double counting.</p>
d	<p>Host Country Requirements: Projects shall be in compliance with applicable Host Country's legal, environmental, ecological and social regulations.</p>	<p>The project does not violate any of the Host Country's legal, environmental, ecological and social regulations.</p>
e	<p>Contact Details: As part of the Project Documentation the Project Developer shall provide (i) name and (ii) contact details of all Project Participants; AND in case of an organisation (iii) the legal registration details and (iv) documentation by the governing jurisdiction that proves that the entity is in good standing (defined as being a legal or other appropriate entity registered in or allowed to operate within the required jurisdiction and with no evidence of insolvency or legal/criminal notices placed against</p>	<p>The name and contact details of all the project participants are included in the Appendix 2 of the PDD.</p>

	it or any of its Directors). Gold Standard retains the right (at its own discretion) to refuse use of the Standard where reputational concerns are highlighted.	
f	<p>Legal Ownership: Full and uncontested legal ownership of any Products that are generated under Gold Standard Certification, (for example carbon credits) shall be demonstrated. Where such ownership is transferred from project beneficiaries this must be demonstrated transparently and with full, prior and informed consent (FPIC).</p> <p>Note that for certain Project types there is a requirement for full and uncontested legal land title/tenure to be demonstrated. These are contained within specific Activity or Product Requirements. All projects shall immediately report to Gold Standard any land title/tenure disputes arising.</p>	The end users and manufacturer will sign agreements with project proponent stating clearly that the PP has the sole ownership of the carbon credits generated under the project.
g	Other Rights: As well as legal title and ownership, the Project Developer shall also demonstrate where required uncontested legal rights and/or permissions concerning changes in use of other resources required to service the Project (for example, access rights, water rights etc.). Any known disputes or contested rights must be declared immediately to Gold Standard by the Project Developer and resolved prior to further project implementation in affected areas.	The project involves distributing ICS only. There is no dispute or contested right about any aspect of the project.
h	Official Development Assistance (ODA) Declaration: All Project Developers applying for project activities located in a country named by the OECD Development Assistance Committee's ODA recipient list and seeking Gold Standard	No ODA has been or will be diverted for the implementation of the project.

	Certification for carbon credits shall declare the Official Development Assistance (ODA) support. The Project Developer shall follow the GHG Emissions Reduction & Sequestration Product Requirements and submit the declaration at the time of Design Certification.	
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The project also meets the eligibility criteria as per Community Service Activity Requirements, including the following:

No.	Eligibility criterion	How the project complies
2.1.2	All CSA Projects shall lead to climate change mitigation and/or adaptation by providing or improving access to services/resources at the household or community or institution level. Eligible services include electricity and energy, water and sanitation, waste management, housing, etc.	The project ICS is a basic service to people, which will be provided to household level.

A.1.2. Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

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The project ownership belongs to Iceberg. The participating households, ICS manufacturer and Iceberg will sign donation and carbon transfer agreements to transfer the ownership of the carbon assets generated from the project belongs to Iceberg. The agreement will confirm that the project ownership belongs to Iceberg.

A.2 Location of project

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The project location is in the Lao People's Democratic Republic.

Table 2: Geographical coordinates of the Lao People's Democratic Republic

Orientation	Latitude	Longitude
Eastmost	15°25'06" N	107°37'12" E
Westmost	20°16'17" N	100°06'22" E

Southmost	13°53'09" N	106°06'11" E
Northmost	22°30'19" N	101°45'19" E



Figure 1: Map of the Lao People's Democratic Republic

A.3 Technologies and/or measures

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Before the implementation of the project, local people in the project location used traditional solid-fuel cooking solutions such as open fire or three-stone fires. The project plans to distribute 100,000 fuel-efficient improved cookstoves (ICS) in 2 years to replace the baseline cookstoves in households. The local partners will be in charge of the distribution. Iceberg will maintain close contact with local partners to resolve issues during distributing process in time. A digital database will be used to store the information of distribution.

The ICS will continue to consume non-renewable biomass for heating needs, but it will consume less wood fuel as it has a higher thermal efficiency. Thus, it will result in a reduction of GHG emissions compared to the baseline scenario.

Technology

The types of ICS will be distributed in the project are Green Benefit Improved Cookstove and Lao Energy Saving Improved Cookstove.

The technical specifications of Green Benefit Improved Cookstove are shown below. Its thermal efficiency is 35.95%.

Table 3: Technical specifications of Green Benefit Improved Cookstove

No	Parameter	Value
1	High Power Thermal Efficiency (WBT 4.2.3)	35.95%
2	Dimensions	Diameter 26cm (+/- 0.5 cm) Height: 24 cm (+/- 0.5 cm)
3	Weight	2.8 Kg (+/- 0.1Kg)
4	Material	Ceramic clay and iron
5	Lifespan	7 years



Figure 2: Photo of Green Benefit Improved Cookstove

The technical specifications of Lao Energy Saving Improved Cookstove are shown below. Its thermal efficiency is 33%.

Table 4: Technical specifications of Lao Energy Saving Improved Cookstove

No	Parameter	Value
1	High Power Thermal Efficiency (WBT 4.2.3)	33%
2	Dimensions	Diameter: 30 cm (+/- 0.5 cm) Height 25cm (+/- 0.5 cm)
3	Weight	12 Kg (+/- 0.1Kg)
4	Material	Ceramic clay and iron
5	Lifespan	7 years



Figure 3: Photo of Lao Energy Saving Improved Cookstove

The cooking systems of two types are both made of a combustion chamber, a pot rest and an air inlet window. The lifespans of the two types of improved cookstoves are both expected to be 7 years.

The project enables and enhance households to achieve several sustainable development goals:

SDG 1: Provide more job opportunities and higher income to local residents.

SDG 2: Improve food security and nutrition status.

SDG 3: Reduce people's exposure to high PM2.5 and high CO.

SDG 4: Reduce the time spent on firewood collection.

SDG 5: Reduce women and girls' drudgery.

SDG 7: Increase the proportion of population with primary reliance on clean cooking technology in project area.

SDG 8: The factories which produce ICS will hire more workers to produce ICSs for the project.

SDG 9: The upstream and downstream supply chain benefit from the project.

SDG 13: Reduce GHG emissions.

SDG 15: Reduce deforestation and protect biodiversity and natural habitats.

A.4 Scale of the project

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The average annual emission reduction from the project is expected to be 119,779 tCO₂e, which is more than 60,000 tCO₂e. Thus, it is a large-scale project activity.

A.5 Funding sources of project

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There is no public funding for the project.

SECTION B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

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Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC), Version 4.0.

B.2. Applicability of methodology (ies)

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The project activity meets each of the applicability conditions:

No.	Applicability criterion	How the project complies
a	Project shall choose a technology design that has predictable performance in that it is proven to be efficient and durable under field conditions; for cookstoves, the rated thermal efficiency shall be at least 20%.	The thermal efficiency of Green Benefit Improved Cookstove is 35.95%, and the one of Lao Energy Saving Improved Cookstove is 33%.
b	The technology shall have continuous useful energy output of less than 150kW per unit, where "continuous useful energy output" is defined above.	The energy output of the project ICS is less than 150kW.
c	The project activity is implemented by a project developer and can include additional project participants listed in Appendix 2 of the PDD template. The individual households and institutions may be represented collectively by community organizations, etc., but do not individually act as project participants.	The information of the project proponent who is also the project developer has been listed in Appendix 2 of the PDD. The households do not individually act as project participants.
d	The project developer must design incentive mechanism(s), which should be effective as fast as possible, for the elimination of inefficient baseline stoves that are replaced by the project cooking	The project developer will design an incentive mechanism.

	devices and describe the incentive mechanism(s) in the PDD/VPA-DD at the time of validation.	
e	<p>To avoid double counting or double claiming, the project developer must:</p> <ul style="list-style-type: none"> i. clearly communicate its ownership rights and intention of claiming the emission reductions resulting from the project activity to the following parties by contract or clear written assertions in the transaction paperwork: all other project participants; project technology manufacturers; and retailers of the project technology or the renewable fuel in use; and ii. inform and notify the end users that they cannot claim emission reductions from the project, and iii. exclude from the project activity, cooking devices included in any other voluntary market or CDM project activity/PoA, and strive not to displace the cooking devices of another CDM or voluntary project/PoA. See data and parameters not monitored, Avoidance of double counting or double claiming with other mitigation actions, for details on this demonstration. 	<ul style="list-style-type: none"> i. The end users and manufacturer will sign agreements with project proponent stating clearly that the PP has the sole ownership of the carbon credits generated under the project. ii. The end users will be informed and notified that they cannot claim emission reductions from the project. iii. The ICS will be distributed to people in rural area of Laos who used traditional wood-based stove before, anyone who has participant other voluntary market or CDM project activity/PoA will be excluded. The GPS of the household will be recorded. And each ICS distributed in this project has a unique identification ID, and the user's basic information (e.g. name, location, unique identification ID) will be recorded. The ICS also will be labelled with programme logo. Hence, the above methods can make sure that it will avoid double counting.
f	Project activities making use of solid fossil fuel in the project scenario or other improved fossil fuel cookstoves meeting certain conditions described in the footnote to Table 1 (e.g. switch from	Not applicable. The fuel in the baseline and project scenario is expected be firewood.

	three-stone fire biomass stoves to LPG stoves) may only claim emission reductions for energy efficiency improvement aspect and shall assume the same baseline and project fuel for emission reduction calculations.	
g	Project activities making use of a new solid biomass feedstock in the project situation (e.g. switch to green charcoal or renewable biomass briquettes) must comply with relevant specific requirements for biomass related project activities, as defined in the latest version of the Community Services Activity Requirements. The specific requirements apply to both plantations established for the project activity and/or existing plantations that will supply biomass feedstock.	Not applicable. The fuel in the baseline and project scenario is expected be firewood.
h	Adequate evidence is supplied to demonstrate that indoor air pollution (IAP) levels are not worsened compared to the baseline, and greenhouse gases emitted by the project fuel/stove combination are estimated with adequate precision. Furthermore, for projects where cooking will move from outdoor to indoor or where the project technology reduces ventilation (for example, changing from a stove with chimney to improved stove with no chimney), indoor air pollution (IAP) levels shall not worsen in the project compared to the baseline, including PM 2.5 and carbon monoxide (CO) emissions. This may be demonstrated before project Design Certification or during project operation using the certification resulting from of a manufacturer's test, report of field testing	The fuel used under project and baseline scenario are the same. The cookstoves distributed by the project are more efficient which will consume less fuel. Thus, the volumes harmful gases will be reduced under the project scenario.

	of the technology's PM2.5 and carbon monoxide (CO) emissions, report of lab testing of the technology, or results of modelling of the technology's operation under field conditions. If none of these are available, reference from published literature or report by independent agencies may be used as evidence, provided it is not more than 5 years old.	
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B.3. Project boundary

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Source	GHGs	Included?	Justification/Explanation
Baseline scenario	Delivery of thermal energy	CO ₂ Yes	Major source
		CH ₄ Yes	Major source
		N ₂ O Yes	Major source
	Production of fuel, transport of fuel	CO ₂ No	Baseline and project fuels are same thus no transportation and production triggering from project activity.
		CH ₄ No	Baseline and project fuels are same thus no transportation and production triggering from project activity.
		N ₂ O No	Baseline and project fuels are same thus no transportation and production triggering from project activity.
Project scenario	Delivery of thermal energy	CO ₂ Yes	Major source
		CH ₄ Yes	Major source
		N ₂ O Yes	Major source
	Production of fuel, transport of fuel	CO ₂ No	Baseline and project fuels are same thus no transportation and production triggering from project activity.
		CH ₄ No	Baseline and project fuels are same thus no transportation and production triggering from project activity.
		N ₂ O No	Baseline and project fuels are same thus no transportation and production triggering from project activity.

B.4. Establishment and description of baseline scenario

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The project proponent will conduct a baseline survey to study the cook solution households use before the implementation of the project. The households who use firewood for cooking with traditional cookstoves like open fire or three-stone fire are the target users of the project. The baseline scenario is expected to be the continuing use of non-renewable wood fuel (firewood) by the target population to meet similar thermal energy needs as provided by project cookstoves in absence of project activity.

B.5. Demonstration of additionality

The additionality of the project is demonstrated as follows:

Specify the methodology, activity requirement or product requirement that establishes deemed additionality for the proposed project (including the version number and the specific paragraph, if applicable).	Community Service Activities Requirements, Version 1.2 4.1.9 Projects that meet any of the following criteria are considered as deemed additional and therefore are not required to prove Financial Additionality at the time of Design Certification: (a) Positive list (Annex B of this document) (b) Projects located in LDC, SIDS, LLDC (c) Microscale projects
Describe how the proposed project meets the criteria for deemed additionality.	As the project is located in Laos, which is a LDC ¹ , then the project deemed additionality.

B.5.1 Prior Consideration

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N/A.

B.5.2 Ongoing Financial Need

¹ <https://www.un.org/development/desa/dpad/least-developed-country-category/ldcs-at-a-glance.html>

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N/A.

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs

SUSTAINABLE DEVELOPMENT GOALS TARGETED	MOST RELEVANT SDG TARGET	SDG IMPACT
		INDICATOR (PROPOSED OR SDG INDICATOR)
13 Climate Action	13.2 Integrate climate change measures into national policies, strategies and planning	13.2.2: Total greenhouse gas emissions per year
1 No poverty	1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day	1.1.1: Proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural)
2 Zero hunger	2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round	2.1.1: Prevalence of undernourishment
3 Good health and well-being	3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	3.9.1: Mortality rate attributed to household and ambient air pollution
4 Quality education	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university	4.3.1: Participation rate of youth and adults in formal and non-formal education and training in the previous 12 months, by sex

5 Gender equality	5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate	5.4.1: Proportion of time spent on unpaid domestic and care work, by sex, age, and location
7 Affordable and clean energy	7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	7.1.2: Proportion of population with primary reliance on clean fuels and technology
8 Decent work and economic growth	8.3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services	8.3.1: Proportion of informal employment in total employment, by sector and sex
9 Industry, Innovation, and Infrastructure	9.3 Increase the access of small-scale industrial and other enterprises, in particular in developing countries, to financial services, including affordable credit, and their integration into value chains and markets	9.3.1: Proportion of small-scale industries in total industry value added
15 Life on land	15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements	15.1.1: Forest area as a proportion of total land area

B.6.1 Explanation of methodological choices/approaches for estimating the SDG Impact

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a) SDG 1

Improved cookstove is a basic service necessary to lead a healthy and productive life, including saving time and money for wood fuel at the household level. The project proponent will distribute 100,000 ICSs, and the ICSs are produced in local factories. Hence the implementation of the project results in more job opportunities and higher income for local residents.

The number of ICS distributed in the project will be used as an indicator of providing basic service access to households.

b) SDG 2

The project will improve food security and nutrition status, particularly for children and women by reducing inadequate cooking, the burden of firewood collection, the time to prepare food and the need to buy firewood.

The money reduction spent on buying firewood will be used as an indicator.

c) SDG 3

Most of non-renewable biomass local people used for cooking is firewood, which generates high PM2.5 and high CO biomass smoke when incompletely burnt. By using ICS, it will reduce people's exposure to high PM2.5 and high CO due to higher efficiency of combustion leading to faster cooking and more complete combustion. It also will reduce the burn risk significantly to children and toddlers due to enclosure of the fire in the combustion chamber.

The fuel and time reduction spent on cooking will be used as an indicator.

d) SDG 4

The project will reduce the time spent on firewood collection for children, especially for girls, which will increase their time for education. The implementation of project will need local people to participate in production, distribution and monitoring. They will get relevant skills and sustainable development and global citizenship education through training by project proponent.

The time reduction spent on collecting firewood will be used as an indicator.

e) SDG 5

The project will reduce women and girls' drudgery through time savings in reducing time spent cutting, collecting, and carrying firewood from trees far removed from households and reduce time spent cooking over toxic smoky open fires. These tasks, if being undertaken without relief, are a major cause of gender inequality.

The time reduction spent on cooking and collecting firewood will be used as an indicator.

f) SDG 7

The ICS distributed to household is a clean cooking technology. The project will increase the proportion of population with primary reliance on clean cooking technology in project area.

The usage rate of the ICS distributed under the project will be used as an indicator.

g) SDG 8

The factories which produce ICS will hire more workers to produce ICSs for the project.

The increase of the number of workers hired will be used as an indicator.

h) SDG 9

The local factories which will produce ICS for project are small-scale industries. They are expected to expand production capacity to satisfy the needs. Thus, the upstream and downstream supply chain benefit from the project.

The increase of production capacity will be used as an indicator.

i) SDG 13:

The average annual GHG emission reduction from the project is expected to be 119,779 tCO₂e due to less non-renewable firewood combustion for cooking and heating in the households.

j) SDG 15:

The project will help local people consume less firewood and it will result in a reduction of GHG emissions compared to the baseline scenario. It also will help reduce deforestation and protect biodiversity and natural habitats in Laos.

The reduction of non-renewable biomass consumed will be used as an indicator.

B.6.2 Data and parameters fixed ex ante

SDG13

Data/parameter	Baseline scenario survey results
Unit	NA
Description	Report of the results of the baseline scenario survey

Source of data	The report presents the results of the Baseline Scenario Survey, described in section 3.4 of applied methodology, relevant for the baseline scenario definition.																		
Value(s) applied	<div>For ex ante estimation:</div> <table><tr><th>Meaning</th><th>Value</th><th>Unit</th></tr><tr><td>Clean cooking solution in the baseline scenario</td><td>0</td><td>number</td></tr><tr><td>Money spent on buying firewood in the baseline scenario</td><td>2.50</td><td>USD/month/household</td></tr><tr><td>Fuel spent on cooking in the baseline scenario</td><td>7.74</td><td>kg/household-day</td></tr><tr><td>Time spent on cooking in the baseline scenario</td><td>2.70</td><td>hour</td></tr><tr><td>Time spent on collecting firewood in the baseline scenario</td><td>0.45</td><td>hour</td></tr></table>	Meaning	Value	Unit	Clean cooking solution in the baseline scenario	0	number	Money spent on buying firewood in the baseline scenario	2.50	USD/month/household	Fuel spent on cooking in the baseline scenario	7.74	kg/household-day	Time spent on cooking in the baseline scenario	2.70	hour	Time spent on collecting firewood in the baseline scenario	0.45	hour
Meaning	Value	Unit																	
Clean cooking solution in the baseline scenario	0	number																	
Money spent on buying firewood in the baseline scenario	2.50	USD/month/household																	
Fuel spent on cooking in the baseline scenario	7.74	kg/household-day																	
Time spent on cooking in the baseline scenario	2.70	hour																	
Time spent on collecting firewood in the baseline scenario	0.45	hour																	
Choice of data or Measurement methods and procedures	The data will be surveyed during baseline survey. Sampling method will be used to choose households. The main survey methods will be applied in the sampling plan include hardcopy questionnaires, online questionnaires, face to face interview and telephone interview.																		
Purpose of data	Calculate impacts of SDG1, SDG2, SDG3, SDG4, SDG5, SDG7																		
Additional comment	Undertake at the start of the first crediting period, or more frequently if the project activity targets industrial applications.																		

Data/parameter	Project technology description
Unit	NA
Description	<p>The detailed description of the project technology shall include as a minimum:</p> <ul style="list-style-type: none"> - Manufacturer name, - product name (if applicable), - technology type, - capacity characteristics, - continuous useful energy output demonstration, - rated thermal efficiency, for the following cases: <ul style="list-style-type: none"> - improved biomass cookstoves, fuel-based ovens, water heaters, improved fossil fuel cookstoves (solid fuel or existing liquid & gaseous fuel projects), and renewable fuel fired stoves.

	<ul style="list-style-type: none"> - Any performance certifications from National Standards body or certification body recognised by national standards body also shall be provided.
Source of data	<p>Any of the following sources shall be used:</p> <ul style="list-style-type: none"> - Manufacturer specifications - Certifications by national standards body or an appropriate certification party recognised by national standards body - Commercial guarantee - Technical reports from the installer <p>- For stoves built on-site at the end user location, reports of Standard WBT by stove manufacturer or installer</p> <p>Professional opinion or expert opinion is not accepted as a source for this parameter.</p>
Value(s) applied	Will be updated later.
Choice of data or Measurement methods and procedures	Manufacturer specifications
Purpose of data	Calculate impacts of SDG13
Additional comment	<p>For any information not available at the time of validation, validating VVB shall include a FAR.</p> <p>Project developer shall provide this information to verifying VVB before completion of verification report.</p> <p>No issuance shall be requested for project technologies for which the project technology details are not verified by the verifying VVB prior to completion of verification report.</p>

Data/parameter	Expected technical life of project technology
Unit	Operating hours (e.g. "5,500 hours") or time period (e.g. "five years")
Description	The expected technical life of an individual project technology shall be defined in the PDD.

Source of data	<p>Fixed and recorded at the time of registration or distribution</p> <p>Any of the following sources shall be used:</p> <ul style="list-style-type: none"> - Manufacturer specifications - Certification by national standards body or an appropriate certification party recognised by national standards body - Commercial guarantee or Guarantee from the installer - For stoves built on-site at the end user location, field reports, which comply with the general requirements for sampling (Section 4.4), of average technical life of the same stove type operated under similar conditions (socioeconomic and cultural). Simulation modelling may be applied together with such field reports to estimate the average technical life. <p>Professional opinion or expert opinion is not accepted as a source for this parameter.</p>
Value(s) applied	7 years for ex ante estimation.
Choice of data or Measurement methods and procedures	Manufacturer specifications
Purpose of data	Calculate impacts of SDG13
Additional comment	<p>If the expected technical life of project technology is shorter than the crediting period, describe measures to ensure that end users are provided replacement technology of comparable or higher quality at the end of the technical life, by either</p> <ul style="list-style-type: none"> - replacing with comparable or better technology, or - retrofitting essential parts with performance guarantee. <p>The project shall ensure that the units are replaced or retrofitted at the end of their technical life within a crediting period to continue claiming emission reductions.</p> <p>However, a new project or programme cannot be registered for replacement/retrofitted project devices.</p> <p>If project devices are retrofitted/repared before or at the end of the device's estimated technical life, emission reductions may be claimed for these devices during the extended lifetime only if the details of the retrofits/repairs undertaken (e.g. parts replaced, specifications followed, personnel conducting the repairs and date of retrofitting) on each device are documented and in addition, one of the following options is implemented:</p>

	<p>a. Extended lifetime is demonstrated through a warranty from the original manufacturer, or a guarantee from a company with demonstrated experience in cookstove repair that assures the performance of the stove in its entirety comparable to the original device including with regard to efficiency, safety and indoor emissions; or</p> <p>b. Extended lifetime or the durability of the retrofitted device is demonstrated through a durability test performed according to requirements in ISO 19867-1 for durability or a comparable national standard. Certification by a relevant national standards body or an appropriate certifying agent recognized by that body may be supplied based on sample tests specified by the standard applied.</p>
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Data/parameter	Indoor air pollution (IAP) levels of the project technology
Unit	NA
Description	For projects where cooking will move from outdoor to indoor or where the project technology reduces ventilation (for example, changing from a stove with chimney to improved stove with no chimney), demonstration that Indoor air pollution (IAP) levels are not worsened in the project scenario compared to the baseline, including PM 2.5 and carbon monoxide (CO) emissions.
Source of data	<p>For the description of IAP level of the project technology, any of the following sources shall be used:</p> <ul style="list-style-type: none"> - certification resulting from of a manufacturer's test, - report of field testing of the technology, - report of lab testing of the technology, or - results of modelling of the technology's operation under field conditions. - For stoves built on-site at the end user location, existing reports of lab or field testing of similar technology. <p>For the IAP level of the baseline scenario, the following sources shall be used:</p> <ul style="list-style-type: none"> - certification resulting from of a manufacturer's test, - report of field testing of the technology, - report of lab testing of the technology, - results of modelling of the technology's operation under field conditions, or - Expert opinion

	For both project and baseline technologies, if none of these are available, reference from published literature or report by independent agencies may be used as evidence, provided it is not more than 5 years old.
Value(s) applied	NA
Choice of data or Measurement methods and procedures	published literature
Purpose of data	NA
Additional comment	Any information not available at validation shall be included as a FAR and provided before completion of verification report. Only for project types where this evidence is required, no issuance shall be requested for project technologies for which IAP levels have not been verified by the verifying VVB prior to completion of verification report.

Data/parameter	Avoidance of double counting or double claiming among project participants
Unit	NA
Description	Evidence of avoidance of double counting or double claiming with other parties directly involved with the project or programme.
Source of data	Written assertions with the project developer of the ownership rights and intention of selling the emission reductions resulting from the project activity directed at or signed with all the applicable parties of the following: <ul style="list-style-type: none"> - all other project participants; - project technology producers; and - retailers of the project technology or the renewable fuel.
Value(s) applied	NA
Choice of data or	Agreement with all other project participants.

Measurement methods and procedures	
Purpose of data	NA
Additional comment	Any information not available at validation shall be included as a FAR and provided before completion of verification report.

Data/parameter	Avoidance of double counting or double claiming with other mitigation actions
Unit	NA
Description	Review and analysis of mitigation actions in other voluntary market or UNFCCC/compliance mechanisms
Source of data	<p>Using publicly available information from Gold Standard and other voluntary standards, at a minimum Verra and any recognized national or regional standards in the project location, and UNFCCC CDM project & PoA database:</p> <ul style="list-style-type: none"> - identify and list any mitigation actions of similar technology, i.e. that provide the same kind of output and use the same kind of equipment or conversion process, operating in overlapping spatial boundaries. <p>If one or more are identified:</p> <ul style="list-style-type: none"> - describe the practices that will be implemented to ensure that the programme or project activity quantifies emission reductions only from technology it has implemented, - describe the practices to avoid that the programme or project activity implementation displaces technology of other mitigation actions, and - design a method to discount emission reductions in case the programme or project activity is found to displace or operate alongside another mitigation action.
Value(s) applied	NA
Choice of data or Measurement	Searching the database above.

methods and procedures	
Purpose of data	NA
Additional comment	Undertake at the time of project design review and VPA inclusion review.

Data/parameter	Regulatory framework for provision of thermal energy services
Unit	NA
Description	Evidence that the project does not undermine or conflict with any national, sub-national or local regulations or guidance for thermal energy supply/devices or fuel supply or use
Source of data	List and provide a summary of any national, sub-national and local regulations or guidance for provision of thermal energy services/devices of the type the project provides in the project boundary, including any tariff requirements. Describe how the project complies with the regulatory framework.
Value(s) applied	NA
Choice of data or Measurement methods and procedures	-
Purpose of data	NA
Additional comment	Undertake at the start of each crediting period.

Data/parameter	EF _{b,f,CO2}
Unit	tCO ₂ /TJ
Description	CO ₂ emission factor arising from use of fuels in baseline scenario

Source of data	<p>Wood: Methodology default, 112 tCO₂/TJ</p> <p>Charcoal:</p> <p>Methodology default, 112 tCO₂/TJ (combustion only)</p> <p>Methodology default, 165.22 tCO₂/TJ (includes charcoal production emissions)</p> <p>Methodology cap, 197.15 tCO₂/TJ (includes charcoal production emissions)</p> <p>Other fuels: IPCC defaults</p> <p>When emissions from fuel production, transport, and similar are included to determine a project-specific emission factor, then the following shall apply as well:</p> <ul style="list-style-type: none"> - The project boundary must include these processes - Avoidance of double counting considerations (see two parameter tables) must cover all steps in the project boundary - The determination of the specific emissions from these sources is fully documented and evidenced in the PDD <p>These provisions may be applied to include the actual GHG emissions happening upstream in charcoal production in the charcoal emission factor; however, emission factors higher than the methodology cap are not permitted.</p>
Value(s) applied	112 tCO ₂ /TJ
Choice of data or Measurement methods and procedures	The fuel used by the end users is firewood.
Purpose of data	Calculate SDG13
Additional comment	Charcoal should apply the emission factor for charcoal fuel.

Data/parameter	EF _{b,f,nonCO2}
Unit	tCO ₂ /TJ
Description	Non-CO ₂ emission factor arising from use of fuels in baseline scenario

Source of data	<p>Wood: Methodology default:</p> <ul style="list-style-type: none"> - 9.46 tCO₂e/TJ (AR5 GWP) or - 8.692 tCO₂e/TJ (AR4 GWP) <p>Charcoal: Methodology defaults:</p> <ul style="list-style-type: none"> - 5.865 tCO₂e/TJ (AR5 GWP) (combustion only) - 44.83 tCO₂e/TJ (AR5 GWP) (includes charcoal production emissions), - Methodology cap: 92.29 tCO₂e/TJ (AR5 GWP) (includes charcoal production emissions) - or - 5.298 tCO₂e/TJ (AR4 GWP) (combustion only) - 40.26 tCO₂e/TJ (AR4 GWP) (includes charcoal production emissions) - Methodology cap: 82.90 tCO₂e/TJ (AR4 GWP) (includes charcoal production emissions)
Value(s) applied	9.46 tCO ₂ /TJ
Choice of data or Measurement methods and procedures	The fuel used by the end users is firewood.
Purpose of data	Calculate SDG13
Additional comment	If the emission factor is expressed in tonnes of CH ₄ or N ₂ O, it shall be converted to tCO ₂ e using the applicable GWP and this shall be documented in the PDD.

Data/parameter	NCV _{b,fuel}
Unit	TJ/ton
Description	Net calorific value of the fuels used in the baseline
Source of data	<p>Wood: Methodology default, 0.0156 TJ/ton</p> <p>Charcoal: Methodology default, 0.0295 TJ/ton</p>
Value(s) applied	0.0156 TJ/ton

Choice of data or Measurement methods and procedures	The fuel used by the end users is firewood.
Purpose of data	Calculate SDG13
Additional comment	The methodology default emission factor must be applied when the methodology default NCV is applied.

Data/parameter	f_{NRB}
Unit	percentage
Description	Fractional non-renewability status of woody biomass fuel, in case the baseline fuel is biomass or charcoal
Source of data	Determined by following the CDM TOOL30, Calculation of the fraction of non-renewable biomass
Value(s) applied	0.75 for ex ante estimation
Choice of data or Measurement methods and procedures	Requirements of the CDM TOOL30
Purpose of data	Calculate SDG13
Additional comment	Project developers applying for a renewal of the crediting period must reassess the NRB based on most recent information available.

SDG2

Data/parameter	M_b
Unit	USD/month/household

Description	Money spent on buying firewood in the baseline scenario
Source of data	Baseline survey
Value(s) applied	2.50 for ex ante estimation
Choice of data or Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Purpose of data	Calculate SDG2
Additional comment	-

SDG3

Data/parameter	F_b
Unit	kg/household-day
Description	Fuel spent on cooking in the baseline scenario
Source of data	Baseline survey
Value(s) applied	7.74 for ex ante estimation
Choice of data or Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Purpose of data	Calculate SDG3
Additional comment	-

Data/parameter	T_b
Unit	hour
Description	Time spent on cooking in the baseline scenario
Source of data	Baseline survey
Value(s) applied	2.70 for ex ante estimation
Choice of data or Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Purpose of data	Calculate SDG3 and SDG5
Additional comment	-

SDG4

Data/parameter	$T_{c,b}$
Unit	hour
Description	Time spent on collecting firewood in the baseline scenario
Source of data	Baseline survey
Value(s) applied	0.45 for ex ante estimation
Choice of data or Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Purpose of data	Calculate SDG4 and SDG5

Additional comment	-
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B.6.3 Ex ante estimation of SDG Impact

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SDG 13:

Since the baseline and project fuel are identical (firewood) and emission reductions are exclusively from improved efficiency, so the Method 1 of the applied methodology-TPDDTEC (Version 4.0) will be used to calculate the GHG emissions reduction achieved by the project activity:

$$ER_y = \sum_{b,p} (N_{b,p,y} \times U_{p,y} \times SFS_{p,b,y} \times NCV_{b,fuel} \times (f_{NRB,b,y} \times EF_{b,f,CO2} + EF_{b,f,nonCO2})) - \sum LE_{p,y} \quad Eq. 1$$

Where:

ER_y	=	Emission reduction for total project activity in year y (tCO ₂ e/yr)
$\sum_{b,p}$	=	Sum over all relevant baseline b/project p pairs
$N_{b,p,y}$	=	Number of project technology-days included in the project database for baseline b/project p pair in year y (days)
	=	Cumulative Usage rate for technologies in project scenario p in year y (fraction)
$SFS_{p,b,y}$	=	Specific fuel savings for an individual project technology of baseline b/project p pair in year y (mass or volume units/technology*day) (Refer to Section 4.1 below for further details)
$NCV_{b,fuel}$	=	Net calorific value of the fuel(s) that is substituted or reduced in baseline b (TJ/mass or volume units)
$f_{NRB,b,y}$	=	Fractional non-renewability status of woody biomass fuel during year y (fraction). For biomass, it is the fraction of woody biomass that can be established as non-renewable. This parameter is omitted when f is a fossil fuel.
$EF_{b,f,CO2}$	=	CO ₂ emission factor from use of fuel f (tCO ₂ /TJ)
$EF_{b,f,nonCO2}$	=	Non-CO ₂ emission factor arising from use of fuel f, when the baseline fuel f is biomass or charcoal (tCO ₂ e/TJ). This parameter is omitted when f is a fossil fuel.
$LE_{p,y}$	=	Leakage for project scenario p in year y (tCO ₂ e/yr)

Leakage emissions

Option 1 of applied methodology is used to calculate the leakage emissions:

Apply a default adjustment factor of 0.95 to the emission reductions to approximate leakage emissions. In this case, the term “ $-\sum LE_{p,y}$ ” in equations 1, 2 or 3 changes to “ $* 95\%$ ”.

For ex ante estimation,

$U_{p,y}$ is assumed to be 0.9.

$SFS_{p,b,y}$ of the first year is assumed to be 7.74kg/person/day.

$NCV_{b,fuel}$ is assumed to be 0.0156 TJ/tonne.

$f_{NRB,b,y}$ is assumed to be 0.75.

EF_{b,f,CO_2} is assumed to be 112 tCO₂ /TJ.

$EF_{b,f,nonCO_2}$ is assumed to be 9.46 tCO₂ /TJ.

The average annual emission reduction is calculated to be 119,779 tCO₂e.

B.6.4 Summary of ex ante estimates of each SDG Impact

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	N/A	N/A	98,465
Year 2	N/A	N/A	176,224
Year 2	N/A	N/A	137,226
Year 4	N/A	N/A	103,053
Year 5	N/A	N/A	83,927
Total	N/A	N/A	598,895
Total number of crediting years	N/A	N/A	5
Annual average over the crediting period	N/A	N/A	119,779

Other SDGs

ITEM	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT	UNIT
SDG1	0	100000	100000	number
SDG2	2.5	1	60.00%	Fraction
SDG3	10.44	4.69	55.08%	Fraction
SDG4	0.45	0.3	33.33%	Fraction

SDG5	3.15	1.9	39.68%	Fraction
SDG7	0%	90%	90%	Fraction
SDG8	8	15	7	person
SDG9	800	1200	400	device/month
SDG15	N/A	N/A	82,154	ton

B.7. Monitoring plan

B.7.1 Data and parameters to be monitored

SDG 13

Data / Parameter	Avoidance of double counting or double claiming among project technology end users
Unit	NA
Description	Evidence of avoidance of double counting or double claiming with project technology end users
Source of data	Evidence of informing / notification of end users, such as: - leaflets distributed with the warranty card of the product alerting end-users to the waiving of their carbon rights in exchange for discount pricing of the improved technology below its true cost, - carbon title waiver forms signed by end users, etc.
Value(s) applied	NA
Measurement methods and procedures	Searching the database
Monitoring frequency	Monitored whenever project technology is sold or otherwise disseminated
QA/QC procedures	Cross check using general internet search and search of public records of Gold Standard and other voluntary market and UNFCCC mechanisms
Purpose of data	-
Additional comment	-

Data / Parameter	Presence of stove stacking
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Unit	NA
Description	Descriptive statistics of the presence and usage practices of baseline- and other non-project-technology by project technology end users
Source of data	<p>Use one of the following methods:</p> <ul style="list-style-type: none"> - Measurement campaigns shall be undertaken using data loggers such as stove utilization monitors (SUMs) which can log the operation of all devices in order to determine the average device utilization intensity, or - Usage Survey- use of other stoves, to capture cooking habits and stove usage of households in the region, including quantification of use of baseline devices, by formulating questions and/or collecting evidences to determine the frequency of usage of both the project devices and baseline devices, or monitoring surveys to capture the number of meals cooked. <p>The surveys may be integrated with the usage survey.</p>
Value(s) applied	0.90 for ex ante estimation
Measurement methods and procedures	Usage survey
Monitoring frequency	Annual
QA/QC procedures	<p>The calculation of $SFS_{p,b,y}$, $SFC_{p,y}$, SE_{b,y,CO_2} and/or $SE_{b,y,non-CO_2}$ shall be cross-checked with the observed presence of stove stacking. Ensure any stove stacking is considered so that emission reductions are calculated only from real reduction of, or replacement of, baseline fuel use.</p> <p>Cross-check results of this survey with independent studies that are specific to the project region (or to the project country, if regional studies are not available), including but not limited to National publications, peer-reviewed literature, third party assessments (for example</p> <ul style="list-style-type: none"> - WISDOM, FAO, UN and similar organizations) and/or official data or statistics about cooking technologies, not older than 5 years old.
Purpose of data	Calculate SDG13
Additional comment	Whether or not the existing baseline technology is surrendered, when an old technology remains in use in

	parallel with the improved technology, or another technology is put in use in parallel, the corresponding emissions must be accounted for so that emission reductions are not overestimated. For example: - if the baseline fuel consumption was defined based on the total fuel used for cooking by the user, determine the percentage of meals or cooking performed on the project technology and multiply the baseline fuel usage by this percentage; - adjust the baseline fuel consumption to be defined based only on the use of the cooking technology that is directly replaced by the project technology.
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Data / Parameter	$P_{b,y}$
Unit	mass or volume units/household-day, mass or volume units/person-meal, etc.
Description	Quantity of fuel that is consumed in baseline scenario b during year y
Source of data	Baseline performance field tests
Value(s) applied	-
Measurement methods and procedures	Baseline performance field tests
Monitoring frequency	At the start of crediting period (fixed for one crediting period) In case the project involves the progressive installation, the baseline values shall be representative of new end users cooking practices included in the projects after registration. If there are changes to the characteristics of the end users (cooking practices and/or living standards), the project developer shall conduct baseline KPTs for new end-users and include as a new scenario or adjust the values that have been provided at the time of project registration.
QA/QC procedures	Compliance with the general requirements for sampling (Section 4.4), general requirements for QA/QC (Section 4.5) and Annex 2 Kitchen performance test.

	<p>If the values resulting from the baseline KPTs are higher than the following threshold value (on equivalent terms), then the results shall be further substantiated by independent third-party studies that are specific to the project region, including but not limited to government publications, peer-reviewed literature, third party assessments (for example – WISDOM, FAO, UN and similar organizations) and/or official data or statistics about cooking technologies and fuel use. In any case, the value applied shall not be higher than the cap value (on equivalent terms).</p> <p>Threshold value: 0.75 tonnes/person*year of fuelwood</p> <p>Cap value: 0.95 tonnes/person*year of fuelwood</p>
Purpose of data	Calculate SDG13
Additional comment	Used to calculate SFS

Data / Parameter	$P_{p,y}$
Unit	mass or volume units/household-day, mass or volume units/person-meal, etc.
Description	Quantity of fuel that is consumed in project scenario p during year y
Source of data	Project performance field tests
Value(s) applied	3.09 kg/household-day
Measurement methods and procedures	Project performance field tests
Monitoring frequency	Updated every two years, or more frequently The KPT values are valid for two years and may be applied for before or after period, however the gap between start date of first KPTs and second KPTs shall not be more than two years.
QA/QC procedures	Compliance with the general requirements for sampling (Section 4.4), general requirements for QA/QC (Section 4.5) and Annex 2 Kitchen performance test.
Purpose of data	Calculate SDG13
Additional comment	Used to calculate SFS

Data / Parameter	$SFS_{b,p,y}$
Unit	mass or volume units/technology*day
Description	Specific fuel savings for an individual project technology of baseline b/project p pair in year y
Source of data	Calculated from $P_{b,y}$, $P_{p,y}$ and other information to obtain the savings in the required units
Value(s) applied	7.74 kg/household-day
Measurement methods and procedures	Baseline and Project performance field tests
Monitoring frequency	Updated every two years, or more frequently
QA/QC procedures	The calculation method, inputs and their sources shall be described in detail in the PDD and monitoring report. Cross-check with proportional efficiency of baseline and project technology. For example, if the baseline stove efficiency is 10% and the project rated efficiency is 25%, the savings should reflect a factor of 2.5 approximately in the first year of the crediting year and not more. If it is more, then the value is capped based on the proportional efficiency.
Purpose of data	Calculate SDG13
Additional comment	Applies when using Method 1

Data / Parameter	$U_{p,y}$
Unit	Percentage
Description	Weighted average usage rate in project scenario p during year y
Source of data	Usage survey, following the description in section 4.1. Usage survey. The survey result must provide the statistically valid proportion of users actively using the project technology for each project technology age cohort. From the annual usage survey results, calculate the weighted average percent of users actively using the

	project technology, where the weighting is by the quantity of project technologies of each age cohort being credited in a given project scenario.
Value(s) applied	0.90 for ex ante estimation.
Measurement methods and procedures	Usage survey
Monitoring frequency	At least annually Optionally, more frequently
QA/QC procedures	Compliance with the general requirements for sampling (Section 4.4) and general requirements for QA/QC (Section 4.5)
Purpose of data	Calculate SDG13
Additional comment	Please refer to the Requirements and Guidelines: Usage Rate Monitoring for carrying out usage surveys for projects implementing improved cooking devices.

Data / Parameter	$N_{b,p,y}$
Unit	days
Description	Number of project technology-days included in the project database for baseline b/project p pair in year y
Source of data	Calculated from the Project database (see section 3.4.B. Project database) as the sum of the number of project technology units times the calendar days during the year y that they were present at the end user locations
Value(s) applied	0.90 for ex ante estimation.
Measurement methods and procedures	Project Database
Monitoring frequency	Calculated annually
QA/QC procedures	Cross check the results of the usage survey with the contents of the project database to confirm whether the project technology units surveyed are present at end user locations as expected, or not. If there is discrepancy, this must be explained or corrected.
Purpose of data	Calculate SDG13

Additional comment	-
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SDG2

Data / Parameter	M_p
Unit	USD/month/household
Description	Money spent on buying firewood in the project scenario
Source of data	Project survey
Value(s) applied	1.00 for ex ante estimation
Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Monitoring frequency	Biennially
QA/QC procedures	Cross check the results of the usage survey with the contents of the project database to confirm whether the project technology units surveyed are present at end user locations as expected, or not. If there is discrepancy, this must be explained or corrected.
Purpose of data	Calculate SDG2
Additional comment	-

SDG3

Data / Parameter	F_p
Unit	kg/household-day
Description	Fuel spent on cooking in the project scenario
Source of data	Project survey
Value(s) applied	3.09 for ex ante estimation
Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Monitoring frequency	Biennially
QA/QC procedures	Cross check with the efficiency

Purpose of data	Calculate SDG3
Additional comment	-

Data / Parameter	T_p
Unit	hour
Description	Time spent on cooking in the project scenario
Source of data	Project survey
Value(s) applied	1.60 for ex ante estimation
Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Monitoring frequency	Biennially
QA/QC procedures	Cross check with the efficiency
Purpose of data	Calculate SDG3
Additional comment	-

SDG4

Data / Parameter	$T_{c,p}$
Unit	hour
Description	Time spent on collecting firewood in the project scenario
Source of data	Project survey
Value(s) applied	0.30 for ex ante estimation
Measurement methods and procedures	The data will be obtained through sampling survey as per the applied methodology.
Monitoring frequency	Biennially
QA/QC procedures	Cross check with the efficiency
Purpose of data	Calculate SDG4
Additional comment	-

B.7.2 Sampling plan

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As per the applied methodology Reduced Emissions from Cooking and Heating (RECH):TPDDTEC, version 4.0, the sampling plan will include the following:

Baseline scenario survey

The baseline scenario survey provides critical information on target population characteristics, baseline technology use, fuel consumption, leakage, and sustainable development indicators.

Representativeness: The baseline survey requires in person interviews with a robust sample of end users without project technologies that are representative of end users targeted in the project activity.

Sample Sizing: The baseline survey will be carried out for each baseline scenario using representative and random sampling, following these guidelines for minimum sample size:

Group size	Minimum sample size
<300	30 or population size, whichever is smaller
300 to 1000	10% of group size
> 1000	> 100

Data Collected: The data collected is specific to the characteristics of each baseline scenario and should be tailored accordingly. Information on the following needs to be gathered:

1. User follow up	i. Address or location ii. Mobile telephone number and/or landline telephone number (when possible)
2. End user characteristics	iii. Number of people served by baseline technology iv. Typical baseline technology usage patterns and tasks (commercial, institutional, domestic, etc.)
3. Baseline technology and fuels	v. Types of baseline technologies used and estimated frequency vi. Types of fuels used and estimated quantities vii. Seasonal variations in baseline technology and fuel use

	viii. Sources of fuels; purchased, hand-collected, or etc., and prices paid or effort made, e.g. walking distances, persons collecting, opportunity cost
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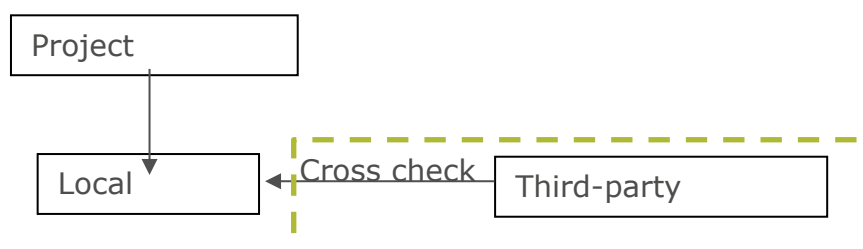
B.7.3 Other elements of monitoring plan

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Quality assurance/Quality control

Training about monitoring plan will be provided to local partners, including survey method, data record and analysis. The monitoring plan will be carried out by qualified personnel trained for quality assurance and quality control. The project proponent will inspect local partners to confirm that the personnel are qualified and the monitoring plan has been properly implemented. The data collected may be cross checked by the project proponent or a third-party organization.

The organizational structure for monitoring is shown as the bellow:



The main survey methods applied in the sampling plan include hardcopy questionnaires, online questionnaires, face to face interview and telephone interview. The potential of refusals and other means of non-responses will be taken into account for calculation of sample size. Meanwhile, in order to minimize the rates of non-response and answer bias, the questionnaires will be designed by professional team and widely tested before use.

Any non-conformances with the validated monitoring plan will be recorded and analysed. If they are in accordance with the applied methodology and other related rules, a change may be conducted in the validated monitoring plan. Otherwise, revision and improvement will be conducted in the monitoring. The related ERs will not be claimed in the monitoring report until the non-conformance has been corrected in the latter case.

SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1 Start date of project

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20/09/2024, which is the first ICS expected to distribute

C.1.2 Expected operational lifetime of project

>>

20/09/2024-19/06/2029

C.2. Crediting period of project

C.2.1 Start date of crediting period

>>

20/09/2024, expected

C.2.2 Total length of crediting period

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5 years, twice renewable to a maximum of 15 years

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1 Safeguarding Principles that will be monitored

A completed Safeguarding Principles Assessment is in [Appendix 1](#), no risk has been identified yet.

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?

The project will reduce women and girls' drudgery through time savings in reducing time spent cutting, collecting, and carrying firewood from trees far removed from households and reduce time spent cooking over toxic smoky open fires. These tasks, if being undertaken

without relief, are a major cause of gender inequality.

Question 2 - Explain how the project aligns with existing country policies, strategies and best practices	The project activities will in line with the Law on the Laos Development and Protection of Women ² . The job opportunities will be provided to women equally.
Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	Members of women organizations will be invited to attend the stakeholder consultation including discussion on Safeguarding Principles & Requirements. No other expert is required for the Safeguarding Principles & Requirements.
Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	Members of women organizations will be invited to attend the stakeholder consultation. No other expert is required to assist with Gender issues at the Stakeholder Consultation.

SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

The below is a summary of the 2 step GS4GG Consultation for monitoring purposes. Please refer to the separate Stakeholder Consultation Report for a complete report on the initial consultation and stakeholder feedback round.

E.1 Summary of stakeholder mitigation measures

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<https://www.ilo.org/dyn/travail/docs/1425/Law%20on%20the%20Development%20and%20Protection%20of%20Women%202004.pdf>

The stakeholder consultation meeting was held on 19/08/2024. More details will be updated after the feedback round.

E.2 Final continuous input / grievance mechanism

METHOD	INCLUDE ALL DETAILS OF CHOSEN METHOD (S) SO THAT THEY MAY BE UNDERSTOOD AND, WHERE RELEVANT, USED BY READERS.
Continuous Input /	
Grievance Expression	Will be updated after the feedback round
Process Book (mandatory)	
GS Contact (mandatory)	help@goldstandard.org
Other	Will be updated after the feedback round

APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into [SECTION D](#) above. Please refer to the instructions in the [Guide to Completing](#) this Form.

SOCIAL SAFEGUARDING PRINCIPLES		
Reference requirement	Question	Response
P.1 Human Rights		
P.1.1.1 	Does the project developer, its representatives and the Project disrespect internationally proclaimed human rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.1 	Is the project involved or complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.2 	Have local communities or individuals raised human rights concerns regarding the project (e.g., during the stakeholder engagement process, grievance processes, public statements)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.3 	Is there a risk that rights-holders (e.g., Project-affected stakeholders) do not have the capacity to claim their rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.3 	Does this project undermine national or regional measures for the realisation of the right to development?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.</p> <p>Please add text here...</p>		
<p>Would the project potentially involve or lead to:</p>		
P.1.1.1 	adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalised groups?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.1.1.2 	inequitable or discriminatory impacts on affected populations, particularly people living in poverty or marginalised or excluded individuals or groups, including persons with disabilities?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.1.1.3 	restrictions in availability, quality of and/or access to resources or basic services, in particular to marginalised individuals or groups, including persons with disabilities?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

P.1.1.3 	exacerbation of conflicts among and/or the risk of violence to project-affected communities and individuals?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input type="checkbox"/> NO
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Briefly describe below how the project incorporates a human rights-based approach.

For example, by describing how the project design:

- is informed by human rights analysis, including from UN human rights mechanisms (human rights treaty bodies, universal periodic review, special procedures)
- includes measures to assist the government to realise (respect, protect and fulfil) human rights under international law and to implement human rights-related standards in national law (whichever is higher)
- enhances the availability, accessibility and quality of benefits and services for potentially marginalised individuals and groups, and to increase their inclusion in decision-making processes that may impact them (consistent with the non-discrimination and equality human rights principle)
- provides reasonable accommodations to strengthen inclusivity and accessibility of project benefits and services to persons with disabilities.

Please add text here....

P.2 | GENDER EQUALITY AND WOMEN'S EMPOWERMENT

P.2.1.1 	Have women's groups/leaders raised gender equality concerns regarding the project, (e.g., during the stakeholder engagement process, grievance processes, public statements)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Does the project undermine the principles of non-discrimination, equal treatment, and equal pay for equal work?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Does the project prevent men and women from having equal opportunities to participate in identified tasks and activities, whether through paid work, volunteer work, or community contributions, as appropriate?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Does the project limit the participation of women or men based on pregnancy, maternity/paternity leave, or marital status?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Is information about project objectives being communicated in a way that is inappropriate for the local context and not tailored to the methods of understanding of both women and men, which could hinder their participation?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.3 	Has the project assessed gender risks without referencing the country's gender strategy or equivalent national commitment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.4 	Has expert stakeholder(s) been involved, and has their input been requested for the project design on gender equality and women's empowerment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:		
P.2.1.1 	adverse impacts on gender equality and/or the situation of women and girls?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.1 	exacerbation of risks of gender-based violence? For example, through the influx of workers to a community, changes in community and household power dynamics, increased exposure to unsafe public places and/or transport, etc.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.2 	reproducing discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.2 	limitations on women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services? For example, activities that could lead to natural resources degradation or depletion in communities who depend on these resources for their livelihoods and well-being.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

Briefly describe below how the project is addressing any identified risk to gender equality and women's empowerment.

Please add text here....

[P.3 | COMMUNITY HEALTH AND SAFETY](#)

P.3.1.1 	Does the project involve potential risks to the health and safety of affected communities during its life cycle?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.3.1.2 	Does the project involve any potential risks to the workers' safety and health?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:		
P.3.1.1 	construction and/or infrastructure development (e.g., roads, buildings, dams)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.3.1.2 	air pollution, noise, vibration, traffic, injuries, physical hazards, poor surface water quality due to runoff, erosion, sanitation?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2 	harm or losses due to failure of structural elements of the project (e.g., collapse of buildings or infrastructure)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY

		<input checked="" type="checkbox"/> NO
P.3.1.2 	risks of water-borne or other vector-borne diseases (e.g., temporary breeding habitats), communicable and noncommunicable diseases, nutritional disorders, mental health?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2 	transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g., explosives, fuel and other chemicals during construction and operation)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2 	adverse impacts on ecosystems and ecosystem services relevant to communities' health (e.g., food, surface water purification, natural buffers from flooding)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

Briefly describe below how the project is addressing any identified risk related to community health and safety.

Please add text here....

P.4 | CULTURAL HERITAGE, INDIGENOUS PEOPLE, DISPLACEMENT AND RESETTLEMENT

P.4.1 | Sites of Cultural and Historical Heritage

P.4.1.1 	Does the project involve altering, damaging, or removing sites, objects, or structures of significant cultural heritage?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:

P.4.1.1 	activities adjacent to or within a cultural heritage site?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.1 	significant excavations, demolitions, movement of earth, flooding or other environmental changes?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.1 	alterations to landscapes and natural features with cultural significance?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.1 	adverse impacts to sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, practices)? (Note: projects intended to protect and conserve Cultural Heritage may also have inadvertent adverse impacts)	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.2 	utilisation of tangible and/or intangible forms (e.g., practices, traditional knowledge) of Cultural Heritage	<input type="checkbox"/> YES

	for commercial or other purposes?	<input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.2 	If answer to question above is "YES" or "POTENTIALLY" - are the communities made aware of their right under the law, scope and nature of proposed development and its potential consequences?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.3 	If answer to question above is "YES" - does the project provide equitable sharing of benefits from commercialisation of such knowledge, innovation, or practice, consistent with their customs and traditions?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.4 	If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.4 	If answer to question above is "YES", has project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.4.2 | Forced Eviction and Displacement](#)

P.4.2.1 	Does the project involve any risks related to involuntary relocation of people?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:

P.4.2.1 	risk of forced evictions or involuntary relocation of people?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.2.2 	temporary or permanent and full or partial physical displacement (including people without legally recognisable claims to land)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.2.2 	economic displacement (e.g., loss of assets or access to resources due to land acquisition or access restrictions – even in the absence of physical relocation)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.2.2 	If answer to question above is "YES" or "POTENTIALLY", - has the project developed Resettlement Action Plan or Livelihood Action Plan in consultation and agreement with affected individual, group or community?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

	- has the project integrated Resettlement Action Plan or Livelihood Action Plan into the Project design?	
P.4.2.3 	If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.2.3 	If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.4.3 | LAND TENURE AND OTHER RIGHTS](#)

P.4.3.1 	Does the project involve any risks related to identifying and managing legitimate tenure rights that may be affected by the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:

P.4.3.1 	impacts on or changes to land tenure arrangements and/or community-based property rights/customary rights to land, territories and/or resources?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.3.1 	uncertainties with regards to land tenure, access rights, usage rights or land ownership? Examples include, but are not limited to water access rights, community-based property rights and customary rights.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.3.2 	Changes in legal arrangements, if yes, are the changes done in line with relevant laws and regulations?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.2 	Changes in legal arrangements, if yes, are these changes agree with free, prior and informed consent of the involved stakeholders?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.3 	Does some other entity (other than the project developer) hold uncontested land title for the entire Project Boundary?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.4 	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

P.4.3.4	If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.5	Have project developer in consultation with stakeholders established a functioning mechanism to receive, process, resolve, communicate and record grievances?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.4.4](#) | INDIGENOUS PEOPLES

P.4.4.1	Does the project involve Indigenous People within the Project area of influence who may be affected directly or indirectly by the Project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:

P.4.4.1	affect areas where indigenous peoples are present (including project area of influence)	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.4.1	affect areas, land and territory claimed by indigenous peoples?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.4.1	impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.4.7	If answer to above questions is "YES" or "POTENTIALLY", <ul style="list-style-type: none"> - Is it determined that the proposed project may affect the rights, lands, resources, or territories of indigenous people? - Has an "Indigenous People Plan" (IPP) or "Indigenous People Plan Framework" been elaborated and included in the project documentation? - Was the plan developed in accordance with the effective and meaningful participation of indigenous peoples and in accordance with UNDP Guidelines? 	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.4.3	risk of forcibly removing indigenous people from their lands and territories?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

<p>P.4.4.4 </p>	<p>utilisation and/or commercial development of natural resources on lands and territories claimed by indigenous peoples?</p> <p>Consider, and where appropriate ensure, consistency with the answers under Principle 4.1 above</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> POTENTIALLY</p> <p><input checked="" type="checkbox"/> NO</p>
<p>P.4.4.5 </p> <p>P.4.4.6 </p>	<p>If answer to question above is "YES" or "POTENTIALLY"</p> <ul style="list-style-type: none"> - Did the project obtain free, prior and informed consent from indigenous people before taking their cultural, intellectual, religious, and/or spiritual property? - Does the project ensure that the indigenous people receive an equitable sharing of benefits resulting from the use of their traditional knowledge and practices? ? - Does the project ensure that the sharing of benefits resulting from the use of indigenous peoples' traditional knowledge and practices is culturally appropriate and inclusive? - Does the project ensure that the provision of equitable sharing of benefits does not impede land rights or equal access to basic services including health services, clean water, energy, education, safe and decent working conditions, and housing? 	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>
<p>P.4.4.8 </p>	<p>Does the project lack appropriate feedback and grievance channels for Indigenous Peoples and their representatives?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>
<p>P.4.4.8 </p>	<p>Has a grievance mechanism not been established at the beginning of programme or project implementation with due consideration given to customary dispute settlement mechanisms among the Indigenous Peoples concerned and will it remain operational throughout the project cycle?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>
<p>P.4.4.9 </p>	<p>Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>
<p>P.4.4.9 </p>	<p>If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

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P.5 | CORRUPTION

P.5.1.1 	Does the project involve, or is it complicit in, contributing to or reinforcing corruption or corrupt projects?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.5.1.1 	Does the project have a risk of encouraging bribery, kickbacks, or other unethical behavior?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

ECONOMIC SAFEGUARDING PRINCIPLES

P.6 | ECONOMIC IMPACTS

P.6.1 | LABOUR RIGHTS AND WORKING CONDITIONS

P.6.1.1 	Does the project involve, facilitate, or condone forced labor, or pose a potential risk of forced labor?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.1 	Does the project violate any labor or health and safety laws, international obligations, or ILO conventions?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.2 	Does the project violate the principles of equal opportunity and fair treatment in its employment decisions?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.3 	Does the project violate national laws, if available regarding non-discrimination in employment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.4 P.6.1.5 	Does the project allow child labor?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 P.6.1.8 	Does the project have insufficient processes and measures in place to ensure the safety and health of project workers?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.9 	Does the project have insufficient measures to safeguard and support vulnerable project workers, such as women, people with disabilities, migrant workers, and young workers, and to prevent any kind of harassment, abuse, bullying, or exploitation, including gender-based violence (GBV)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.10 	Does the project have no grievance mechanism available for workers to voice workplace concerns? Is information about this mechanism not provided to workers at the time of recruitment, or is it not easily accessible?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project potentially involve or lead to:

(NOTE: APPLIES TO BOTH PROJECT AND CONTRACTOR WORKERS)

P.6.1.1 	use of forced labour?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	working conditions that do not meet national labour laws and international commitments?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	working conditions that may deny freedom of association and collective bargaining?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	absence of documented working agreements with all individual workers <i>if such agreements do not exist, or do not address working conditions and terms of employment, the project developer shall provide reasonable working conditions and terms of employment.</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	use of migrant workers? <i>if engaged, the developer shall ensure that they are engaged substantially equivalent terms and conditions to non-migrant workers carrying out similar work.</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	having no arrangements for basic services ³ for workers? <i>the project developer shall put in place and implement policies on the quality and management of the accommodation and provision of basic services in a manner consistent with the principles of non-discrimination and equal opportunity. Workers' accommodation arrangements should not restrict workers' freedom of movement or of association</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.2 	any form of discrimination or harassment based on factors unrelated to job requirements, such as gender, race, nationality, ethnicity, social or indigenous origin, religion or belief, disability, age, or sexual orientation?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.2 	any form of discrimination in any aspect of employment, such as recruitment, compensation, working conditions, training, job assignment, promotion, termination, or discipline?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.2 	harassment, intimidation, and/or exploitation, especially in regard to women?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY

³ Basic services requirements refer to minimum space, supply of water, adequate sewage and garbage disposal system, appropriate protection against heat, cold, damp, noise, fire, and disease-carrying animals, adequate sanitary and washing facilities, ventilation, cooking and storage facilities and natural and artificial lighting, and in some cases basic medical services.

		<input checked="" type="checkbox"/> NO
P.6.1.3 	discriminatory working conditions and/or lack of equal opportunity where national law provides provision to address non-discrimination in employment?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.4 	use of child labour? (including third-party engaged workers)	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.4 	inadequate and verifiable mechanisms for age verification?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 	no processes and measures in place for the safety and health of project workers?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 	No provision of safety and health training provisions, including on the proper use and maintenance of personal protective equipment conducted by competent persons and the maintenance of training records?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 	No provision to record and document accidents, diseases, incidents, and any resulting injuries, illnesses, or deaths?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.8 	occupational health and safety risks due to physical, chemical, biological and psychosocial hazards (including violence and harassment) throughout the project life-cycle?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.9 	No measures to protect vulnerable project workers from harassment, exploitation, and gender-based violence (GBV)? This includes women, people with disabilities, migrant workers, and young workers.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.10 	No grievance mechanism available for workers to voice workplace concerns.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.11 	No measures for due diligence and the establishment of policies and procedures to manage and monitor the performance of third-party employees in the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.6.2 |NEGATIVE ECONOMIC CONSEQUENCES](#)

P.6.2.1 	Is there a risk of project failure during implementation or after project certification due to a lack of financial resources?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.2.2 	Does the project have potential negative impacts or pose a risk to the local economy?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.2.2 	Are there any potential risks or negative impacts this project may have on vulnerable or marginalised social groups, despite the benefits it may bring?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here...

Would the project involve or lead to:

P.6.2.2 	economic impacts (negative/detrimental) to the local economy?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.2.2 	negative economic consequences during and after project implementation, e.g., for vulnerable and marginalised social groups in targeted communities?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.7 | CLIMATE AND ENERGY](#)

[P.7.1 | GHG EMISSIONS](#)

P.7.1.1 	Does the project have a risk of increasing greenhouse gas emissions over the Baseline Scenario?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.7.1.1 	increase greenhouse gas emissions over the Baseline Scenario?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
---------------------------	---	--

If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.7.2 | ENERGY SUPPLY](#)

P.7.2.1 	Does the project pose a risk to the availability and reliability of energy supply to other users?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.7.2.1 	negative impact on the availability and reliability of energy supply to other users?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
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If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.8 | WATER

P.8.1 | IMPACT ON NATURAL WATER PATTERNS/FLOWS

P.8.1.1 	Does the project increase water usage to a level that will not allow for the maintenance of environmental flows?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1 	Does the project result in the discharge of wastewater that does not meet the required standard for beneficial reuse and could therefore negatively impact the environmental flow?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1 	Does the project have the potential risk to exceed the rate of recharge for the groundwater source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1 	Does the project involve any processes or activities that could contaminate the groundwater and render it unsuitable for use?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.8.1.1 	affect the natural or pre-existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.1.1 	Wastewater discharge of quality that does not meet the required standard for beneficial reuse?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.1.1 	significant extraction, diversion of ground water? For example, construction of dams, reservoirs, river basin developments, groundwater extraction	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY

		<input checked="" type="checkbox"/> NO
P.8.1.2 	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.8.2 | EROSION AND/OR WATER BODY INSTABILITY

P.8.2.1 	Does the project have a risk of negatively impacting the catchment and has it been assessed and addressed?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.8.2.2 	negatively impact on the catchment area?	
-		
P.8.2.5 	<i>If yes, Erosion prevention measures, including soil and slope protection measures, must be implemented before project commencement. These measures should involve natural terracing, infiltration strips, permanent ground cover, hedge and tree rows, and effective slope length assessment. Regular reassessment of these measures is necessary.</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.2.6 	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.9 | ENVIRONMENT, ECOLOGY AND LAND USE

P.9.1 | LANDSCAPE MODIFICATION AND SOIL

P.9.1.1 	Is there any risk of soil resource degradation or loss of ecosystem services provided by soils in the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-		
P.9.1.3 		

	<i>If yes, the project shall maintain healthy soils by minimising negative impacts on soil health, productivity, structure, and water retention. Steps to minimise soil degradation include crop rotation, composting, using N-fixing plants, and reducing tillage and ecologically harmful substances.</i>	
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.1.4 	production, harvesting, and/or management of living natural resources by small-scale landholders and/or local communities?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.1.4 	if answer to above question "yes" or "potentially", does project adopt appropriate and culturally sensitive sustainable resource management practices?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.9.2 | VULNERABILITY TO NATURAL DISASTER](#)

P.9.2.1 	Does the project have any risks associated with natural or man-made hazards that could result from land use changes due to the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---------------------------	---	--

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.2.2 	any potential risks that require emergency preparedness and response planning?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.2.2 	if answer to above question "yes" or "potentially", did the project developer disclose appropriate information about emergency preparedness and response to affected communities?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

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P.9.3 | BIOSAFETY AND GENETIC RESOURCES

P.9.3.1	Does the project involve the transfer, handling, and use of genetically modified organisms/living modified organisms that may result in adverse effects on biological diversity?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.3.1	the transfer, handling and use of genetically modified organisms/living modified organisms (GMOs/LMOs) that result from modern biotechnology	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.3.1	If answer to above question is "yes" has a risk assessment by a competent Expert stakeholder been carried out in accordance with Annex iii of the Cartagena protocol on biosafety to the convention on biological diversity?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.3.2	If answer to above question is "yes" has any risks identified in the risk assessment?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.3.3	Forestry (for example Afforestation/Reforestation) involving GMO planting? <i>Note - Forestry projects (for example Afforestation/Reforestation) involving GMO planting are not eligible for Certification under Gold Standard for the Global Goals.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.9.4 | RELEASE OF POLLUTANTS

P.9.4.1	Does the project have a risk of releasing pollutants to air, water, and land in routine, non-routine, or accidental circumstances?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.4.1 	any potential risk of pollutant release that cannot be avoided?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.4.3 	If answer to above question is "Yes" or "potentially", has the project identified all potential pollution sources that may degrade the quality of soil, air, surface, and groundwater in the project area?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.4.2 	If answer to above question is "Yes" or "potentially", do the pollution prevention and control technologies and practices applied during the project life cycle align with national regulations or international best practices?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.4.3 	If answer to above question is "Yes", is there a monitoring plan to ensure that mitigation measures are implemented, and resources are protected?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.9.5 | HAZARDOUS AND NON-HAZARDOUS WASTE](#)

P.9.5.1 	Does the project involve the generation of waste materials (both hazardous and non-hazardous)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.5.3 	Does the project involve risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.5.5 	Does the project involve the use of any chemicals or materials subject to international bans or phase-outs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.5.1 	the generation and management of waste materials?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.5.1 	treatment, destruction, or disposal of waste material?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.1 	If answer to above question is "Yes", does the project involve an environmentally friendly method that includes appropriate control of emissions and residues resulting from the handling and processing of waste material?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

P.9.5.3 	risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.3 	If answer to above question is "yes", does project has measures in place to address health risks?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.4 	Involve manufacture, trade, and use of chemicals and hazardous materials subject to international bans or phase-outs due to their high toxicity to living organisms, environmental persistence, potential for bioaccumulation, or potential for depletion of the ozone layer	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.9.6 | PESTICIDES & FERTILISERS](#)

P.9.6.1 	Does the project involve the use of chemical pesticides?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.6.5 	Does the project involve purchase, store, manufacture, trade or use products that fall in Classes IA (extremely hazardous) and IB (highly hazardous)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.6.6 	Does the project use fertilisers, and if so, are measures being taken to minimise their use and nutrient losses to the environment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.6.1 	chemical pesticides use for pest management?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.6.4 	If answer to question above is "yes" or "potentially", does project has documented Chemical Pesticides Policy in place?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.6.5 	purchase, store, use, manufacture, or trade in Class II (moderately hazardous) pesticides?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.6.5 	If answer to question above is "yes" or "potentially", does project has appropriate controls on manufacture, procurement, or distribution and/or use of these chemicals?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.9.7 | HARVESTING OF FORESTS

P.9.7.1	Does the project have a risk of unsustainable forest management, including timber harvesting?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.7.1	Does the project pose a risk of depleting biodiversity and ecosystem functionality in areas where improved forest management is undertaken?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.7.1	Does the project risk not meeting requirements for environment-friendly, socially beneficial, and economically viable plantations using native species whenever possible?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

P.9.8 | FOOD SECURITY

P.9.8.1	Does the project involve the risk of negatively influencing access to and availability of food for people affected?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to the question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.8.1	modification of the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
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If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.9.9 | ANIMAL WELFARE

P.9.9.1	Does the project involve any risks to animal welfare?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	Animal welfare shall be ensured by providing access to water and food, appropriate environment, humane treatment, and staff training. Evidence of mistreatment will be treated as an immediate non-conformity.	

P.9.9.2 	Does the project involve any potential risk of excessive or inadequate use of veterinary medicines?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.9.4 	Does the project involve the risk of administering synthetic growth promoters, including hormones?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.9.1 	animal husbandry or harvesting of fish populations or other aquatic species? ⁴	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.1 	limiting access for animals to basic needs like drinking water, adequate food, daylight, appropriate shelter etc.?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.9.3 	inadequate measures to isolate sick animals and control the spread of disease, especially zoonotic diseases?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.5 	inadequate low-stress methods, equipment, and facilities that facilitate calm animal movement.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.6 	inadequate measures to ensure that animals are exposed to the least stress possible during transportation and slaughtering?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.7 	inappropriate spacing per animal and stocking rates per land unit?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.8 	inadequate measures to address the specific needs of aquatic animals?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA
P.9.9.9 P.9.9.10 	primary production of living natural resources such as animal husbandry, aquaculture, and fisheries? If the answer is yes, implement industry-standard sustainable management practices in line with to one or more relevant and credible standards and utilise available technologies.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA

⁴ 'Involve' means if the project mechanism and/or impact(s) are achieved via changing animal husbandry practices in some way.

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

P.9.10 | HIGH CONSERVATION VALUE AREAS AND CRITICAL HABITATS

P.9.10.1	Does the project have the risk of negatively impacting HCV areas and/or critical habitats?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.10.2	Does the project in the project area or area of downstream impacts have risks to the following: native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.10.1	identified habitats as HCV areas and or Critical habitats?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.10.1	If answer to above question is "yes", does the project have any risks that could negatively impact the catchment, project success, and surrounding HCV and ecological assets, as well as any measurable adverse impacts on the criteria or biodiversity values for which the critical habitat was designated, and on the ecological processes supporting that biodiversity?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.10.1	If answer to above question is "yes", is a robust, appropriately designed, and long-term Habitats and Biodiversity Action Plan absent which will make the project unable to achieve net gains of those biodiversity values for which the critical habitat was designated?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
P.9.10.2	Does the project area or area of downstream impacts have native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.10.2	If the answer to the above question is "yes", will the project have any adverse effects on these areas?	<input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
P.9.10.3	If the answer to above question is "yes", does the project has opportunities to minimise unwarranted conversion or degradation of the habitat and to enhance the habitat as part of its development?	<input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

P.9.10.4	Is the project applying Land Use & Forest Activity Requirements and managing a minimum 10% of the project area to protect or enhance the biological diversity of native ecosystems following HCV approach as per the given requirements?	<input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
P.9.10.5	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.9.11 | ENDANGERED SPECIES](#)

P.9.11.1	Does the project lead to the reduction or negative impact on any recognised Endangered, Vulnerable or Critically Endangered species?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.11.2	distortion of habitats of endangered species?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NA
P.9.11.2	If answer to the above question is "yes", does the project plan to protect and enhance them?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
P.9.11.2	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

[P.9.12 | INVASIVE ALIEN SPECIES](#)

P.9.12.1	Does project introduce any alien species (not currently established in the country or region of the project) into new environments?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--------------------------	---	--

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.12.1	risk of introducing any alien species with a high risk of invasive behaviour regardless of whether such introductions are permitted under the existing regulatory framework?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.12.1	risk of potential accidental or unintended introductions including the transportation of substrates and vectors (such as soil, ballast, and plant materials) that may harbour alien species.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.12.2	risk of spreading alien species into areas in which they have not already been established?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here....

APPENDIX 2 - CONTACT INFORMATION OF PROJECT DEVELOPER(S)

Organization name	Guangzhou Iceberg Environmental Consulting Services Co., Ltd.
Registration number with relevant authority	91440101MA5D7TPW6A
Street/P.O. Box	No.106 Fengze East Road, Nansha District
Building	
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Postcode	511458
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Telephone	+86-13560420840
E-mail	baoji@icebergchina.com
Website	www.icebergchina.com
Contact person	Ji BAO
Title	General Manager
Salutation	Mr.
Last name	BAO
Middle name	
First name	Ji
Department	
Mobile	+86-13560420840
Direct tel.	
Personal e-mail	baoji@icebergchina.com

APPENDIX 3 - DESIGN CHANGES

A4.1. Details of proposed or actual design change

>>

Not applicable.

A4.2. Describe the impacts of design change on the following

a. Additionality

>>

Not applicable.

b. Applicability of methodology and other methodological regulatory documents with which the project activity has been certified

>>

Not applicable.

c. Compliance with the monitoring plan of the applied methodology

>>

Not applicable.

d. Level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan

>>

Not applicable.

e. Scale of the project activity

>>

Not applicable.

f. Stakeholder consultation

>>

Not applicable.

g. Sustainable development criteria

>>

Not applicable.

h. Safeguarding assessment

>>

Not applicable.

i. Compliance with applicable legislation

>>

Not applicable.

DOCUMENT HISTORY

Version	Date	Remarks
1.5	29 June 2023	Editorial changes to match V2.1 of the Safeguarding Principles Requirements
1.4	21 June 2023	Editorial changes to match V2.0 of the Safeguarding Principles Requirements
1.3	14 April 2023	Integrated the design change memo as annex of the document. Editorial changes
1.2	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Inclusion criteria table added Gender sensitive requirements added Prior consideration (1 yr rule) and Ongoing Financial Need added Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on Stakeholder Consultation information required Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.1	24 August 2017	Updated to include section A.8 on 'gender sensitive' requirements
1.0	10 July 2017	Initial adoption