

# **Non-Technical Summary**

## **1. Introduction to the project**

Guangzhou Iceberg Environmental Consulting Services Co., Ltd. (hereinafter referred to as Iceberg), a Chinese company committed to provide save energy and reduce poverty for developing countries through carbon finance, will cooperate with local partners to implement an improved cookstove project in Laos. The project will not only provide save energy and money of cookstoves to local communities, but also provide job opportunities to the local community during the implementation of the project and improve the living standard to local people in rural area who are the users of those improve cookstoves. The project will apply to register as a carbon emission reduction project under an international standard called “Gold Standard”. The participating households, ICS manufacturers and distributors as well as Iceberg will sign donation and carbon transfer agreements to the ownership of the carbon assets generated from this project belongs to Iceberg. Thus, Iceberg will have the full ownership of the carbon credits generated from the project. The income from selling these carbon credits to international carbon market will confirm the sustainability and extendibility of the project.

The ICS planned to distributed is shown below. The duration of the

project is expected to be 15 years.

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

Table 1: 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 1: Photo of Green Benefit Improved Cookstove

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

Table 2: 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 2: 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.

## 2. Implementation Plan

Iceberg plans to cooperate with local partners to distribute ICS in the rural area of Laos. The implementation plan is as follows.

Needs Assessment: Conduct a needs assessment to determine the areas where the distribution of improved cookstoves will be most effective.

Identify the households that still rely on traditional stoves and are most in need of improved cookstoves.

Partnerships: Cooperate with local partners to ensure that the improved cookstoves reach the target communities. This will help Iceberg to gain access to the communities, identify local suppliers, and obtain necessary permissions and approvals from the government. Households who have already participated in other similar programs must be excluded from the

project activity.

**Procurement:** Identify the most suitable and cost-effective suppliers of the improved cookstoves. Ensure that the cookstoves meet the necessary quality and safety standards.

**Distribution:** The local partners are in charge of the distribution. They will develop a distribution program that outlines the logistics of transporting the cookstoves to the target communities. This program also includes strategies for ensuring that the cookstoves reach the households that need them the most and cost-effectively.

**Training:** Provide enough training to the local partners to ensure that they can implement the project smoothly. Then they will provide training to beneficiaries to ensure that they know how to use the cookstoves effectively and safely. The training will include benefits of the improved cookstoves and how to maintain them.

**Monitoring and Evaluation:** Develop a monitoring and evaluation plan to track the progress of the distribution and usage condition, as well as the impact of the improved cookstoves on the communities. The plan should also include a system for gathering feedback from the beneficiaries.

**Sustainability:** Develop a plan for ensuring the long-term sustainability of the project. This could involve training local technicians to collect the feedback of end users and maintain the cookstoves.

**Communication and Outreach:** Develop a communication and outreach

plan to raise awareness about the benefits of improved cookstoves and the project's progress. This plan should include media outreach, community engagement, and social media outreach.

### **3. Economic, social and environmental impacts of the project**

#### **3.1 Economic impacts**

- The project will reduce expenditures of households on firewood for cooking.
- The project will contribute to the scale-up of local business and organizations with the potential to create jobs in cookstove, such as productions, transporting and distribution of related devices.

#### **3.2 Social impacts**

- The project will save people's money on buying firewood due to higher thermal efficiency.
- The project will reduce the burden on collecting firewood, especially for women and girls.
- The project will increase Laosn people living standard.

#### **3.3 Environmental impacts**

- The project will help reduce greenhouse gas emissions from firewood combustion.
- The traditional way (three stones) of cooking produces massive hazardous smoke. The project will reduce indoor air pollution

- The project reduces the demand for firewood, which can protect natural forest eco-systems and benefit biodiversity.

#### **4. Summary of likely contributions of the project to Sustainable Development Goals (SDGs).**

Sustainable Development Goals Targeted	SDG Indicator	Impact
Goal 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)	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.
Goal 2: Zero hunger	2.1.1 Prevalence of undernourishment.	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, the cost to buy firewood.
Goal 3: Good health and well-being	3.2.1 Under-five mortality rate.	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 will also reduce the burn risk, significant to children and toddlers due to enclosure of the fire in the combustion chamber.

Goal 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	The project proponent has provided and will provide informal education and training to end users on issues like climate change, sustainable development and all.
Goal 5: Gender equality	5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age, and location.	The project will reduce women and children's drudgery through time savings in reducing time spent on cutting, collecting, and carrying firewood from trees far away from households as well as cooking over toxic smoky open fires.
Goal 7: Affordable and clean energy	7.1.2 Proportion of population with primary reliance on clean fuels and technology.	The ICS distributed to Household is a cleaner cooking technology. The project will increase the proportion of population with primary reliance on clean fuels and technology in project area.
Goal 8: Decent work and economic growth	8.3.1 Proportion of informal employment in total employment, by sector and sex.  8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities	The implementation of the project will provide job opportunities to local people. And no matter their gender, age will have equal opportunities.
Goal 9: Industry, Innovation, and Infrastructure	9.3.1 Proportion of small-scale industries in total industry value added	The local factories which produce ICS for the project are small-scale industries, which will expand production capacity to satisfy the

		needs. Thus, the upstream and downstream supply chain will benefit from the project.
Goal 13: Climate action	13.0 Tonnes of greenhouse gas emissions avoided or removed	The project will reduce the GHG emissions due to less firewood combustion for cooking in the households.
Goal 15: Life on land	15.1.1 Forest area as a proportion of total land area 15.2.1 Progress towards sustainable forest management	The project will help local people consume less firewood as the ICS has higher thermal efficiency and it will result in a reduction of deforestation, which will protect forest.

## 5. Contact details for further technical detail and project information

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Please feel free to contact with us if you have any question.