



**Gold Standard**<sup>®</sup>  
for the Global Goals

TEMPLATE

# KEY PROJECT INFORMATION & VPA DESIGN DOCUMENT (VPA DD)

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VERSION **v.2.3**

RELATED SUPPORT

- [Programme of Activity requirements](#)

- [TEMPLATE GUIDE VPA Design Document](#)

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This document contains the following sections

Section A – Description of project

Section B - Application of approved Gold Standard Methodology (ies) and/or demonstration of SDG Contributions

Section C – Duration and crediting period

Section D – Summary of Safeguarding Principles and Gender Sensitive Assessment

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Appendix 1 – Safeguarding Principles Assessment (mandatory)

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Appendix 3 – LUF Additional Information (VPA specific)

Appendix 4 – Design Changes

## KEY PROJECT INFORMATION

Type of VPA	<input type="checkbox"/> Real case VPA <input checked="" type="checkbox"/> Regular VPA
Scale of VPA  Note that a VPA can be of one scale. Please select applicable scale accordingly.	<input type="checkbox"/> Microscale <input type="checkbox"/> Small scale <input checked="" type="checkbox"/> Large scale
Title of corresponding real case VPA (if applicable)	NA
GS ID of real case VPA (if applicable)	NA
GS ID of VPA	11433
Title of VPA	GS10789 VPA5: Efficient and Clean Cooking for households in the Democratic Republic of Congo (DRC)
Time of First Submission Date	01/11/2021
Date of Design Certification	30/12/2022
Version number of the VPA-DD	2.7
Completion date of version	14/08/2024
Coordinating/managing entity	BURN Manufacturing Co.
VPA Implementer (s)	BURN Manufacturing Co.
Project Participants and any communities involved	BURN Manufacturing Co.
Host Country (ies)	Democratic Republic of Congo (DRC)
GS ID and Title of applicable Design Certified VPA	N/A
GS ID and Title of applicable Performance Certified VPA	NA
Activity Requirements applied	<input checked="" type="checkbox"/> Community Services Activities <input type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities

	<input type="checkbox"/> N/A
Other Requirements applied	NA
Methodology (ies) applied and version number	Technologies and Practices to Displace Decentralized Thermal Energy Consumption’ (TPDDTEC), version 03.1
Product Requirements applied	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A
VPA Cycle:	<input type="checkbox"/> Regular <input checked="" 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 (mandatory)	Emission Reductions	98,387	VERs
1 End poverty in all its forms everywhere	Monetary savings related to the purchase of charcoal	45.20%	Monetary savings in %
3 Ensure healthy lives and promote well-being for all at all ages	Perceived air quality	98.94%	Households in % perceiving improved air quality
<u>4. (Quality Education)</u> <u>Ensure equal access for all women and men to affordable and quality technical, vocational, and tertiary education, including university</u>	<u>Number of people receiving skill development training</u>	<u>100</u>	<u>Number of people who participated in project training</u>

5 (Gender Equality)

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

Average time saving associated with cooking in the project scenario      80

Average time saved cooking in the project scenario for women in the (measured in minutes per day reported by end-user)

7. Ensure access to affordable, reliable, sustainable, and modern energy for all

Number of ICS sold/distributed      14,390

ICS in use

8. Promote sustained, inclusive, and sustainable economic growth, full and productive employment and decent work for all

Number of jobs created      25

Number of jobs productive employment and decent work for all

15 (Life on land)

Promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

Total non-renewable biomass saved      49,357.49

Tons of non-renewable biomass saved in the project scenario from continued use of project technologies

**SECTION A. DESCRIPTION OF PROJECT**

**A.1. Purpose and general description of project**

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This VPA deploys highly efficient improved charcoal cookstoves (ICS), known as 'Jikokoas' reducing woody biomass consumption for urban and peri-urban households in the Democratic Republic of Congo (DRC). For a more detailed technical description of the ICS see section A.3. of this document.

The VPA is implemented by BURN Manufacturing Co. (in the following 'BURN'), at the same time Coordinating and Managing Entity (CME) of the PoA, the biggest manufacturer of highly efficient improved cookstoves in Sub-Saharan Africa producing all its stoves in the first and only modern cookstove manufacturing facility in Kenya.

BURN implements the stoves in this VPA through Altech Group, which acts as the distribution partner for BURN.

The scenario existing prior to the implementation of the project is the use of very inefficient traditional cookstoves, consuming a lot of non-renewable charcoal and firewood. The high biomass consumption has negative impacts on the environment leading to deforestation and land degradation, Greenhouse Gas Emissions (GHG) emissions, loss of soil fertility and soils' reduced ability of water retention. Further, indoor air pollution through health-damaging pollutants while combusting firewood and charcoal result in diseases like e.g. pneumonia, stroke, ischemic heart diseases, chronic obstructive pulmonary diseases and lung cancer. The project activity will relieve these negative impacts.

The PoA is a voluntary action by the CME

#### A.1.1. Eligibility of the VPA under approved PoA

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S. No.	Eligibility Criterion	Description/ Required condition	Description of the VPA in relation to the criteria, Means of Verification and Supporting evidence for inclusion
1	Geographical boundary	ICS distributed <sup>1</sup> under any of the VPAs will be located in any of the countries mentioned under	ICS are distributed to urban and peri urban households across 16 provinces of DRC. For more details see section A.2. of this document.

<sup>1</sup> Distributed<sup>1</sup> may include the free distribution of ICS, sale to full cost or subsidized cost.

		Table 1 of the PoA-DD.	
2	Double-counting of project activities	All VPAs will be checked to prevent double counting and are not registered as a separate GS project activity, nor included as part of another registered GS (or other carbon standard) PoA nor that the project activity has been deregistered.	All carbon standard registries (UNFCCC, GS and VERRA) have been checked and it is confirmed that the VPA has not been registered as a separate GS project activity, nor included as part of another registered GS (or other carbon standard) PoA nor that the project activity has been deregistered. The same has been confirmed by a letter signed by the VPA implementer which shall be submitted to GS
3	Technology	Each VPA will implement improved biomass cook stoves.	The VPA implements highly efficient cookstoves known as 'Jikokoa'. Detailed manufacturer's technology specifications are listed in section A.3. of this document.
4	Conditions to check the start date of the VPA through documentary evidence	The start date of a project activity is the date on which the first ICS has been distributed under the VPA. The start date of retroactive VPAs (with a start date prior to date of first submission of PoA) can be at the earliest 1 year prior to submission of documents for GS preliminary review	The start date is 23/12/2020, i.e. the day when the first ICS was distributed to a household under this VPA. The start date of the VPA can be confirmed by an electronic registration done on koboCollect which shall be submitted to VVB. The project start date is before the 1st Round of Local Stakeholder Consultation, hence, the VPA is retroactive.
5	Methodology	Each VPA will comply with the applicability criteria of the applied methodology (TPDDTEC, version 03.1)	The VPA complies with all applicability criteria of TPDDTEC as further outlined in section B.2 of this document.
6	Financial Additionality &	Projects (VPAs) to be included under the PoA will be in	The thermal energy savings per year at a unit level (i.e. per ICS) are clearly below 1,800

	<p>Ongoing Financial Needs</p>	<p>compliance with item 1.1.3 of Annex B – positive list mentioned in the ‘Community Services Activity Requirements’ or located in LDC, SIDS, LLDC. A VPA will be solely composed of isolated units (efficient cookstoves) where the users of the technology/measure are household/SMEs/institutions and where each unit results in <math>\leq</math> 1,800 MWh of thermal energy savings per year. Hence, according to paragraph 4.1.9 of the ‘Community Services Activity Requirements’, a VPA, regardless of the host country in which the project activity is being implemented, is deemed additional and therefore is not required to prove financial additionality at the time of Design Certification; OR a VPA is located in a LDC, SIDS, LLDC.</p>	<p>MWh as outlined in the ER calculation excel spreadsheet that shall be submitted to VVB during Validation.</p>
<p>7</p>	<p>Stakeholder inclusivity</p>	<p>Local stakeholder consultation is done at VPA level, as described in section F of the PoA-DD. Local stakeholder consultation report must be provided</p>	<p>A local stakeholder consultation for this VPA has been conducted and the LSC report has been submitted to GS. The physical LSC meeting and stakeholder feedback round have been conducted (see LSC report for more</p>

		along with VPA-DD. A single Stakeholder consultation can be conducted for a group of VPAs as long as convincing justification is provided.	details). The Local Stakeholder Consultation would be also valid for any other Voluntary Project Activities (VPAs) implemented in DRC under BURN's Gold Standard PoA 'ECOА_BURN multi-country Clean Cooking programme', provided that they are homogeneous, i.e. deploy the same stove type(s), target the same end-users and consist of the same project boundary as this specific VPA.
8	Conditions related to environmental Impact Analysis	The VPA has to fulfil host country requirements (if any) concerning environmental impact analysis.	No EIA is required by the host country for ICS project activities.
9	CME Approval	Each VPA has a project implementer that is either the Coordinating/Managing Entity or another entity that has signed a contractual agreement with the CME. Those agreements include all rights and responsibilities of both parties, e.g. approval procedures by the CME, monitoring requirements, carbon credit rights transfer. This eligibility criterion is not relevant if the CME is the VPA implementer.	This eligibility criterion is not relevant for this VPA since the CME is the same entity as the VPA implementer
10	Transfer of carbon credit ownership	The transfer of carbon credit ownership all along the investment chain is clearly	The end-users permanently waive any claim or rights on carbon credits to the VPA implementer (also the CME of

		<p>described and communicated to all project participants and end-users so that they are aware of to give up their rights on emission reductions. For technology producers and the retailers of the improved technology, this must be communicated by contract or clear written assertions in the transaction paperwork. The end-users will need to be informed and notified that they cannot claim for emission reductions from the project</p>	<p>the PoA). This is confirmed by strap on ICS box and warranty booklet. Supporting documentation related to strap and warranty booklet shall be submitted to GS. There is a contractual agreement between distributors/retailers in which distributors/retailers waive any claim or rights on carbon credits to the VPA implementer (also CME of the PoA). A sample agreement shall be submitted to VVB.</p>
11	<p>Conditions to provide an affirmation that funding from Annex I Parties, if any, does not result in a diversion of ODA</p>	<p>In case that any of the VPA receives ODA, it is ensured that there is no diversion of ODA, i.e. that no ODA is provided under the condition that all or part of the carbon credits have to be returned to the donor country/entity providing ODA.</p>	<p>The VPA implementer has signed an ODA declaration confirming that there is no diversion of ODA. The same has been submitted to GS</p>
12	<p>Target Group and distribution mechanism</p>	<p>The VPA serves households, institutions or SMEs either in urban, peri-urban and/or rural areas, and distributes the cook stoves through adequate distribution channels.</p>	<p>This VPA targets households in urban and peri urban areas across 16 provinces of DRC. ICS are distributed through direct sale/distribution and/or a variety of retail outlets across the 16 provinces to end-users.</p>

13	Conditions related to sampling requirements for the PoA	The VPA complies with the sampling plan as outlined in the PoA-DD, section B.3 and VPA-DD, section B.7.2	The VPA-DD outlines the sampling plan in section B.7.2 which is in line with the one stipulated in the PoA-DD. The VPA will make part of a single sampling covering a group of VPAs, as soon as there are other homogenous VPAs. In case of a grouped sampling approach, the CDM Project Standard for PoAs will be followed.
14	Double counting of emission reductions	Each VPA will implement a unique identification system for every efficient cooking unit distributed to avoid double counting of emission reductions.	The unique identification system is explained in detail in section A.3. of this document. The VPA is in adherence to the CME Management System as outlined in Section C of the PoA-DD.
15	Crediting Period	The duration of the crediting period of the VPA does not exceed the end date of the registered PoA or shall be capped by the end date of the PoA. The final date for which ERs can be credited shall be no later than 20 years after the start date of the PoA.	The VPA will have a crediting period of 5 years which can be renewed twice, i.e. in total a maximum issuance of 15 years. The VPA will not exceed the end date of the registered PoA.

Table 2 Eligibility for VPA inclusion as per PoA requirements

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

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The project owner, BURN Manufacturing Co., has full and uncontested legal ownership of the Verified Emission Reductions (VERs) that are generated through the Gold Standard Certification.

BURN's ownership on the carbon credits has been clearly communicated to end-users and distributors<sup>2</sup>.

Further, as per Annex A of GHG Emissions Reduction and Sequestration Product Requirements version 2.1, as of now there are no mandatory caps enforced in the host country of Democratic Republic of Congo for use of issued GS VERs for cookstove projects. However, if any such risk of double counting exists, the project developer commits to retiring eligible units equal to the quantity of Gold Standard VERs.

## A.2. Location of VPA

>>

Host Country: Democratic Republic of

Congo Region/State/Province etc:

Urban and peri-urban areas within the borders of the following 16 Provinces within the Democratic Republic of Congo. 10 out of the total 26 Provinces from DRC are not included in the project boundary.

1.	Kinshasa
2.	Haut-Katanga
3.	Sud-Kivu
4.	Tshopo
5.	Nord-Kivu
6.	Kasai-Central (previous Kasai-Occidental)
7.	Kasai-Oriental
8.	Kasai

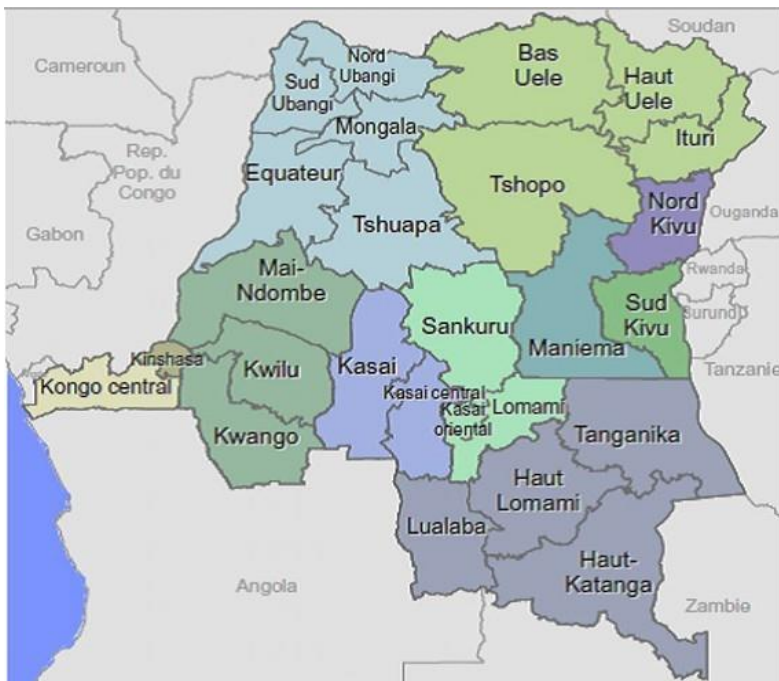
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<sup>2</sup> The warranty booklet and a photo of the strip of the box have been uploaded to GS Registry.

9. Maniema
10. Ituri
11. Tanganyika
12. Lualaba
13. Kwilu
14. Kongo Central
15. Haut-Uele
16. Lomami

The GPS coordinates from the Democratic Republic of Congo are the following:

**Latitude:** -4° 02' 0.66" S



**Longitude:** 21° 45' 0.22" E

### A.3. Technologies and/or measures

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The VPA deploys an efficient cookstove known as Jikokoa intended for use with charcoal. The technology was designed and developed by BURN. These highly efficient cookstoves translate into considerable charcoal savings when compared to traditional cookstoves. The Jikokoa stove's design takes into account the local

cooking culture in the project area to ensure that improvements in technology and improved standards of living do not come at the expense of cultural traditions. The VPA implementer may opt to distribute other stove models in this VPA over time.

The households, by using the improved cookstoves (Jikokoa’s), achieve considerable monetary savings through less charcoal consumption (positive contribution to SDG 1). Further, the households benefit of improved air quality. Since the Jikokoa’s burn the fuel in a much cleaner way as the traditional stoves do (positive contribution to SDG 3). The project generates several jobs positively contributing to SDG 8.

<b>Stove Manufacturer</b>	BURN
<b>Stove Model</b>	Jikokoa G3.5
<b>Stove Type</b>	Charcoal Stove

**Materials**

<b>Stove Body</b>	CRCA Carbon Steel painted high gloss black epoxy powder coat
<b>Pot Rest</b>	Stainless Steel
<b>Burning Chamber</b>	Stainless Steel
<b>Ash Tray</b>	Aluzinc

<b>Feet</b>	Stainless Steel
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**Measurements**

<b>Height</b>	cm	24.4 cm
<b>Diameter (stove top)</b>	cm	26.0 cm
<b>Weight</b>	kg	4 kg
<b>Fuel Chamber Volume</b>	cm <sup>3</sup>	954 cm <sup>3</sup>
<b>Packaging Dimensions</b>	cm	29.0 L x 28.5 W x 25.1 H

**WBT Results**

<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
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High power thermal efficiency (average of cold start and hot start)	%	48.1%	
Firepower	kW	2.05	
Boil Time	minutes	27.72	
<b>Lifetime</b>			
Warranty	2 years		
Estimated Lifetime <sup>3</sup>	7 to 10 years		

<b>Stove Manufacturer</b>	BURN		
<b>Stove Model</b>	Jikokoa Xtra (G4)		
<b>Stove Type</b>	Charcoal Stove		
<b>Materials</b>			
	<b>Stove Body</b>	CRCA Carbon Steel painted high gloss black epoxy powder coat	
	<b>Pot Rest</b>	StainlessSteel & Cast Iron	

<sup>3</sup> The lifetime of the Jikokoa Xtra may go beyond the indicated lifetime. Hence, depending on the usage rate of the stoves, stoves will be either removed from the database after the end of its lifetime and not credited anymore or remain in the database for crediting until the moment a significant drop in usage rate is observed. As an alternative, worn out ICS may be replaced by newly distributed stoves. Manufacturer’s declaration about the ICS lifetime has been submitted to the validating DOE. The usage survey provides a single usage parameter that is weighted based on drop off rates that are representative of the age distribution for project technologies in the total sales record. Drop off rates are informed by households who no longer use the stove or use the stove to a minor extent that marks them as non users. Usage Rate = (100% - Drop of rate %).

	<b>Burning Chamber</b>	StainlessSteel	
	<b>Ash Tray</b>	Aluzinc	
	<b>Feet</b>	Aluzinc	
<b>Height</b>		cm	27.0 cm
<b>Diameter (stove top)</b>		cm	30.2 cm
<b>Weight</b>		kg	5.5 kg
<b>Fuel Volume Chamber</b>		cm <sup>3</sup>	1030 cm <sup>3</sup>
<b>Packaging Dimensions</b>		cm	30.2 L x 30.5 W x 27.5 H
<b>WBT Results</b>			
	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
	High power thermal efficiency (average of cold start and hot start)	%	44.6%
	Firepower	kW	2.21
	Boil Time	minutes	27.96
<b>Lifetime</b>			
	Warranty	2 years	
	Estimated Lifetime <sup>3</sup>	7 to 10 years	

	<b>Stove Manufacturer</b>	BURN	
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	<b>Stove Model</b>	Ecoa Char MMJ <sup>4</sup>	
	<b>Stove Type</b>	Charcoal Stove	
<b>Materials</b>			
	<b>Stove Body</b>	CRCA Carbon Steel, painted hammertone black epoxy powder coat	
	<b>Pot Rest</b>	Stainless Steel	
	<b>Burning Chamber</b>	Stainless Steel	
	<b>Ash Tray</b>	Aluzinc	
	<b>Feet</b>	Aluzinc	
	<b>Handles</b>	Stainless Steel and Polypropylene plastic <sup>5</sup>	
<b>Measurements</b>			
	<b>Height</b>	cm	22.8 cm
	<b>Diameter (stove top)</b>	cm	26.7 cm
	<b>Weight</b>	kg	3.0 kg
	<b>Fuel Chamber Volume</b>	cm <sup>3</sup>	1,152 cm <sup>3</sup>
	<b>Packaging Dimensions</b>	cm	29.5 L x 29.5 W x 24.0 H

<b>WBT Results</b>			
	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
	High power thermal efficiency (average of cold start and hot start)	%	49.29%
	Firepower	kW	2.2
	Boil Time	Minutes	25.13
<b>Lifetime</b>			
	Warranty	1 year	
	Estimated	7 to 10 years	

<sup>4</sup> The name of the stove model is still subject to change.

<sup>5</sup> The name of the stove model is still subject to change.

	Lifetime <sup>6</sup>	
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Photos: To the top left: Jikokoa Classic, To the top right: Jikokoa Xtra, To the bottom: ECOA Char MMJ

Each ICS will be identified through a unique serial number (USN). The USN has the following format comprising of 9 digits<sup>7</sup>:

1 <sup>st</sup> digit	2 <sup>nd</sup> digit	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>
Product ID	10000 <sup>th</sup>	1000 <sup>th</sup>	100 <sup>th</sup>	10 <sup>th</sup>	Random	Random		1 <sup>st</sup>
<b>ID</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>R1</b>	<b>R2</b>	<b>S6</b>

<sup>6</sup> The lifetime of the Ecoa Char MMJ may go beyond the indicated lifetime. Hence, depending on the usage rate of the stoves, stoves will be either removed from the database after the end of its lifetime and not credited anymore or remain in the database for crediting until the moment a significant drop in usage rate is observed. As an alternative, worn out ICS may be replaced by newly distributed stoves. Manufacturer’s declaration about the ICS lifetime has been submitted to the validating VVB.

<sup>7</sup> It is possible that the USN format may change in future.

Each section on the USN will identify the product as follows:

- Product type: the first digit identifies the stove type (Jikokoa)
- # Production number: S1 to S6 are digit slots for a sequential numbering ordered by time of production, allowing for 1 million unique serial numbers. For instance, the first stove off the line would have "000000" for its S1-S6 digits.
- Random digits: R1 and R2 are 2 random digits placed in slots 7 & 8, to make the USN unpredictable to outside parties

Example for USN: 105097338

- "1" stands for Jikokoa product ID
- "050978" for S1-S6, meaning it was the 50,979<sup>th</sup> Jikokoa produced
- "33" for R1-R2, the random digits

The data for the system will be updated and modified as required to allow for optimal performance of VPA implementation and monitoring. All data will be stored for at least two (2) years after the expiry of the crediting period.

#### **A.4. Scale of the VPA**

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The VPA is a large scale project activity. The applied TPDDTEC methodology allows large scale project activities. No suppressed demand baseline will be applied. The thermal energy savings per year at a unit level (i.e. per ICS) are clearly below 1,800 MWh as outlined in the ER calculation excel spreadsheet.

#### **A.5. Funding sources of VPA**

>>

The VPA is funded by private sources of the CME and possibly through private or public funds. In case that the VPA benefits of Official Development Assistance (ODA), it will be ensured that there is no diversion of ODA. See the signed ODA declaration uploaded to SustainCert Registry.



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

### B.1. Reference of approved methodology (ies)

>>

Technologies and Practices to Displace Decentralized Thermal Energy Consumption, version 3.1

### B.2. Applicability of methodology (ies)

>>

In the following each of the methodology applicability requirements is listed as well how the project activity (VPA) complies with each of the criteria.

Methodology applicability requirement	Justification regarding this VPA
This methodology is applicable to programmes or activities introducing technologies and/or practices that reduce or displace greenhouse gas (GHG) emissions from the thermal energy consumption of households and non-domestic premises	This VPA introduces highly efficient improved charcoal cookstoves (ICS) reducing woody biomass consumption for urban and peri-urban households, hence reducing GHG emissions from the thermal energy consumption.
The project activity is implemented by a project proponent and can include additional project participants. The individual households and institutions do not act as project participants.	This VPA is implemented by BURN Manufacturing Co, at the same time being the CME of the PoA. The individual households do not act as project participants.
The project boundary needs to be clearly identified, and the technologies counted in the project are not included in any other voluntary market or CDM project activity (i.e. no double counting takes place). In some cases there maybe another similar activity within the same target area.	The geographical project boundary of this VPA is defined as 16 Provinces within DRC as described in section A.4 of this document.  All carbon standard registries (UNFCCC, GS and VERRA) have been checked and it is confirmed that the VPA has not been registered as a separate GS project activity, nor included as part of another registered GS (or other carbon

	<p>standard) PoA nor that the project activity has been deregistered. Hence, it can be confirmed that double counting is being avoided.</p>
<p>Project proponents must therefore have a survey mechanism in place together with appropriate mitigation measures so as to prevent any possibility of double counting.</p>	<p>The ICS under this VPA will avoid double accounting of emissions reductions through the Unique Serial Number (USN). Each device under this VPA is unquestionably assigned to the PoA 'ECOА_BURN multi- country Clean Cooking Programme'. The USN will be clearly visible on the ICS throughout the life of the product as well as stored in the electronic data management system. If there is any doubt regarding the USN of a product it will be excluded from the VPA.</p>
<p>The technologies each have continuous useful energy outputs of less than 150kW per unit (defined as the total useful energy delivered from start to end of operation of a unit divided by time of operation). For technologies or practices that do not deliver thermal energy in the project scenario but only displace thermal energy supplied in the baseline scenario, the 150kW threshold applies to the displaced baseline technology.</p>	<p>The ICS promoted by this VPA have a capacity of less than the maximum 150kW per unit. The power output is between 1.9 to 2.4 kW (depending on the model).</p>
<p>Using the baseline technology as a backup or auxiliary technology in parallel with the improved technology introduced by the project activity is permitted as long as a mechanism is put into place to encourage the removal of the old technology (e.g. discounted price for the improved technology) and the definitive discontinuity of its use. The project documentation must provide a clear description of the approach chosen and the monitoring plan</p>	<p>Customers will be encouraged to discontinue and remove the baseline technology. Nevertheless, some of the households may continue using the baseline stoves. The monitoring will provide information to what extent households continue using the baseline technologies after the introduction of the ICS:</p>

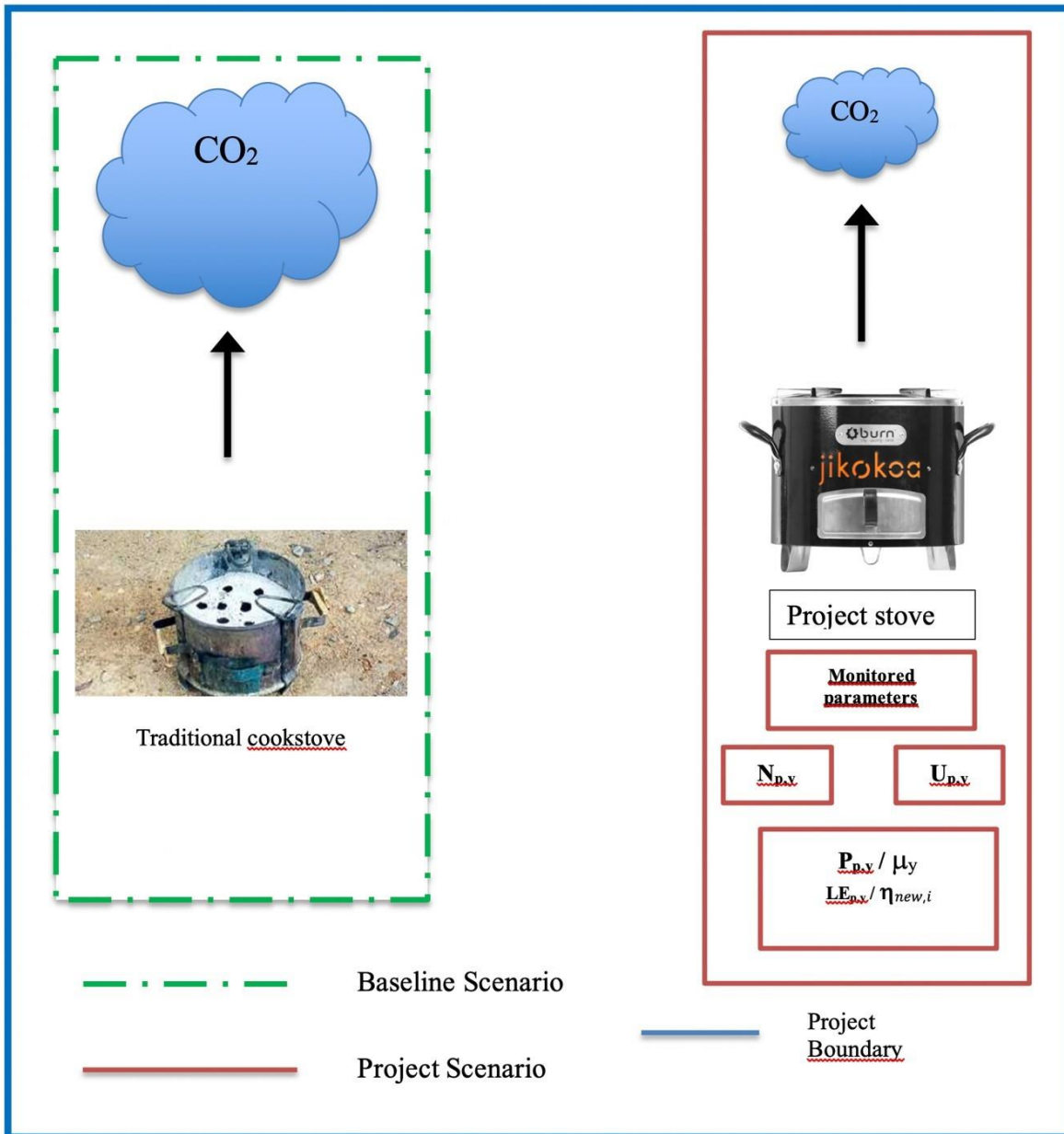
<p>must allow for a good understanding of the extent to which the baseline technology is still in use after the introduction of the improved technology.</p>	<ul style="list-style-type: none"> <li>Annual monitoring surveys will track the continued use of baseline technologies and discount factor applied to the emissions reductions calculations based on any continued use of baseline stoves.</li> </ul>
<p>The project proponent must clearly communicate to all project participants the entity that is claiming ownership rights of and selling the emission reductions resulting from the project activity.</p>	<p>The project proponent will clearly communicate to all project participants that BURN Manufacturing Co. is claiming ownership rights and selling the ER credits resulting from the distribution of project technologies.</p> <ul style="list-style-type: none"> <li>Transfer of carbon rights will be explained at local stakeholder consultations</li> <li>Written messages on the stove packaging (strip and/or sticker on the box) and warranty booklet explaining that the rights on carbon credits are transferred from the end-users to BURN Manufacturing Co.</li> </ul>
<p>Project activities making use of a new biomass feedstock in the project situation (e.g. shift from non-renewable to green charcoal, plant oil or renewable biomass briquettes) must comply with relevant Gold Standard specific requirements for biomass related project activities, as defined in the latest version of the Gold Standard rules. If the biomass feedstock is sourced from a dedicated plantation, the criteria must apply to both plantations established for the project activity and existing plantations that were established in the context of other activities but will supply biomass feedstock.</p>	<p>This VPA does not involve use of a new biomass feedstock, hence this criterion is not applicable. End users continue to use non-renewable biomass in the project scenario.</p>

<p>Adequate evidence is supplied to demonstrate that indoor air pollution (IAP) conditions are not worsened compared to the baseline, and greenhouse gases (as listed in section II.1) emitted by the project fuel/stove combination are estimated with adequate precision. The project fuel/stove combination may include instances in which the project stove is a baseline stove.</p>	<p>This criterion is not applicable. Since this criterion is only relevant in case of introduction of a new biomass feedstock. Nevertheless, qualitative surveys are conducted as part of the monitoring surveys to investigate air quality with the project</p>
<p>Records of renewable fuel sales may not be used as sole parameters for emission reduction calculation, but may be used as data informing the equations in section II of this methodology. These records need to be correlated to data on distribution and results of field tests and surveys confirming (a) actual use of the renewable fuel and usage patterns (such as average fraction of non- renewable fuels used in mixed combustion or seasonal variation of fuel types), (b) GHG emissions, (c) evidence/justifications of CO levels not deteriorating (d) any further factors effecting emission reductions significantly.</p>	<p>This criterion is not applicable. Since this criterion is only relevant in case of introduction of a new biomass feedstock.</p>

**B.3. VPA boundary**

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The project boundary is the physical/geographical site of the project technologies. Thus, the project boundary includes all individual households, which receive an ICS. The target area consists of households residing in urban and peri-urban areas across the 16 provinces of Democratic Republic of Congo (DRC). The fuel production and collection area is considered to be the same as the project boundary.



Source	GHGs	Included ?	Justification/Explanation
Heat delivery	CO <sub>2</sub>	<b>Yes</b>	Main source of emission in the baseline
	CH <sub>4</sub>	<b>Yes</b>	Important source of emissions
	N <sub>2</sub> O	<b>Yes</b>	Significant for charcoal, hence included
Production of fuel	CO <sub>2</sub>	<b>No</b>	Not included for simplification and conservativeness
	CH <sub>4</sub>	<b>No</b>	Not included for simplification and conservativeness
	N <sub>2</sub> O	<b>No</b>	Not included for simplification and conservativeness

Project scenario	Transport of fuel	CO <sub>2</sub>	<b>No</b>	Not included for simplification and conservativeness
		CH <sub>4</sub>	<b>No</b>	Not included for simplification and conservativeness
		N <sub>2</sub> O	<b>No</b>	Not included for simplification and conservativeness
	Heat delivery	CO <sub>2</sub>	<b>Yes</b>	Main source of emission in the project activity
		CH <sub>4</sub>	<b>Yes</b>	Important source of emissions
		N <sub>2</sub> O	<b>Yes</b>	Significant for charcoal, hence included
	Production of fuel	CO <sub>2</sub>	<b>No</b>	Not included for simplification and conservativeness
		CH <sub>4</sub>	<b>No</b>	Not included for simplification and conservativeness
		N <sub>2</sub> O	<b>No</b>	Not included for simplification and conservativeness
	Transport of fuel	CO <sub>2</sub>	<b>No</b>	Not included since no increase of fuel transport compared to the baseline
		CH <sub>4</sub>	<b>No</b>	Not included since no increase of fuel transport compared to the baseline
		N <sub>2</sub> O	<b>No</b>	Not included since no increase of fuel transport compared to the baseline

#### B.4. Establishment and description of baseline scenario

>>

As per the applied methodology TPDDTEC, the baseline scenario is defined by the typical baseline fuel consumption patterns in a population that is targeted for adoption of the project technology.

A baseline survey along with a KPT to determine the baseline woody biomass consumption was conducted between September 11<sup>th</sup>, 2020 and October 31<sup>st</sup>, 2020 in 201 urban/peri-urban households across the 16 Provinces within the Democratic Republic of Congo included in the project boundary. In each of the Provinces the biggest City has been identified and the sample size in each of those Cities was calculated based on the urban population size in each of the Provinces. This means, that the sample size in each of the Cities was directly proportional to the population size in the Province, resulting in a higher sample in a City, if the corresponding Province is highly populated

and resulting in a lower sample size in a City if the corresponding Province is lower populated. The determined sample size in a City has been assigned to the different 'Communes'<sup>8</sup> of that City proportionally to the population size in the respective Communes<sup>9</sup>. In case that no population data for Communes were available, the number of samples to be taken for the respective City has been evenly distributed over the Communes.

The Cities have been chosen to be representative of all urban/peri-urban areas in the 16 Provinces. Three staff members of Alltech, BURN's main distributor in DRC, have been trained by the carbon consultant. These staff members again trained a local team of 41 surveyors, well aware about the local culture, language and with previous survey experience. The training was adequately tailored to the baseline surveys/KPTs and included an interactive discussion of questions with surveyors, going through the questions of the baseline survey questionnaire (data collection form) and KPT protocol, role plays as well as interview techniques. Surveyors were instructed not to survey households which are less than 1,000 m distance from each other to ensure a certain geographic representativeness.

The KPT protocol published at Clean Cooking Alliance website<sup>10</sup> and the survey questionnaire outlined in Appendix 2/'Survey format A: Baseline fuel consumption pattern' of the most recent methodology AMS-II.G were followed. The households were visited on 4 consecutive days, avoiding weekends or any holiday. Brand-new weighing scales with a precision of 10g were used, hence no calibration was necessary.

The average charcoal, firewood, LPG, kerosene and electricity consumption was measured over 3 days. However, only the charcoal consumption is taken into account when calculating the baseline fuel consumption. as no other fuels are seen to be used.

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<sup>8</sup> Administrative unit in Cities in DRC.

<sup>9</sup> For some of the Cities some of the Communes were slightly oversampled whereas some others slightly under-sampled if compared to the initial sample size allocation. This however it not considered to be critical by the CME/VPA implementer. Since the initially calculated sample size of 201 households was maintained and all households were randomly chosen.

<sup>10</sup> <https://www.cleancook0ngall0ance.org/technology-and-fuels/test0ng/protocols.html>, accessed on 12/11/2020.

Prior to conducting KPT measurements, the households were asked a few questions with regard to household size, cooking patterns and fuels and cooking devices used. None of the 201 households stated a difference in fuel consumption and cooking patterns between dry and rainy season, hence seasonal variation was not relevant. The surveyors verified the response given by the householder related to the cooking devices by an on-site kitchen observation. All surveys and KPTs were carried out in person visiting the households.

The baseline surveys/KPTs resulted in an average charcoal consumption of 3.7191 kg/day/household (equivalent to 1.35748 t/year/ household<sup>11</sup>) and an average baseline stove efficiency of 13.01%. As mentioned before, since the use of fuelwood was rather insignificant, it was conservatively excluded. An outlier analysis was carried out taking into account the household size and the standard adult equivalence factors as mentioned in the KPT protocol<sup>12</sup>.

The sample size was sufficient to achieve a precision level of 7% at 90% confidence. Hence, the 90/30 confidence/precision level was met for the baseline KPT analysis.

The detailed household responses and the baseline survey/KPT analysis are provided in the baseline survey and KPT excel spreadsheet.

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<sup>11</sup> This has been calculated as per the following:  $3.7191 \text{ kg/day/household} \times 365/1000$

<sup>12</sup> <https://www.cleancookingalliance.org/binary-data/DOCUMENT/file/000/000/83-1.pdf>, accessed on 12/11/2020.

**B.5. Demonstration of additionality**

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Use this table for Automatic Additionality Only – delete if N/A

<p>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).</p>	<p>Community Services Activity Requirements (Version 1.2), paragraph 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:                  tive list (Annex B)                  Projects located in LDC, SIDS, LLDC<sup>[4]</sup>                  Micro-scale project</p>
<p>Describe how the proposed VPA meets the criteria for deemed additionality.</p>	<p>The project is located in DRC, being an LDC13. Hence paragraph 4.1.9, (a) and (b) as per the Community Services Activity Requirements is met.</p>

>>

The project activity is eligible to apply the “Community Services Activity Requirements” since it meets the criteria as outlined in sections “Eligible Project Types” and “General Eligibility Criteria” of those “Community Services Activity Requirements”.

Eligible Project Types	Project Compliance with the criterion

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<sup>13</sup> <https://www.un.org/ohrls/content/profiles-ldcs>

<p>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.</p>	<p>The proposed project activity leads to climate change mitigation by providing access to improved cookstoves at the household level.</p>
<p>In relation to the above, all Projects shall, therefore, conform to the <a href="#">Principles &amp; Requirements</a> (and associated documents).</p>	<p>The project activity is in conformance with all GS Principles &amp; Requirements.</p>
<p><b>General Eligibility Criteria</b></p>	<p><b>Project Compliance with the criterion</b></p>
<p>Types of project – Pre-identified CSA project types are noted below. Project Developers may submit new project types to Gold Standard for approval following the Principles &amp; Requirements.</p> <p><b>Renewable energy:</b> Renewable energy types such as solar (photovoltaic and solar thermal electricity generation), tidal/wave, wind, hydropower, geothermal, waste to energy and renewable biomass that are connected to mini grid<sup>3</sup> or off grid solutions for targeted users and/or applications.</p> <p>Renewable projects supplying electricity to a national or a regional grid shall refer to Gold Standard Renewable Energy Activity Requirements.</p> <p>Additional eligibility criteria for specific projects (e.g. Hydropower, biomass resources, etc.), are prescribed in Annex A of this document.</p>	<p>The VPA is an end-use energy efficiency project mentioned as eligible project type under section 3.1.1 of the Community Services Activity Requirements.</p> <p>The VPA is composed of isolated distributed energy efficiency units (energy efficient cookstoves) where the users of the technology/measure are households and where each unit is smaller than or equal to 1,800 MWh/stove/year of thermal energy savings.</p>

<p><b>End-use energy efficiency:</b> Project activities that reduce energy requirements as compared to baseline scenario without affecting the level and quality of services or products, where the end-user of the products and services are clearly identified and when the physical intervention is required at the user end. For example, efficient cooking, heating, lighting, etc.</p> <p><b>Waste management and handling:</b> All waste management activities that deliver energy or a usable product with sustainable development benefits such as composting, biogas etc.</p>	
<p><b>Project area, boundary and scale:</b> Project Area and Boundary shall be defined in line with the applicable Impact Quantification Methodologies and Product Requirements.</p> <p>The definition of scale is the same for all Projects, except Microscale which is defined as:</p> <p>CSA Project issuing emission reductions less than or equal to 10,000 tCO<sub>2</sub>eq per annum</p> <p>CSA Project seeking any Gold Standard Certified Impact or Product other than emission reductions and meeting one of the following criteria:</p> <p>Installed capacity less than equal to 2 MW<sub>el</sub> /6 MW<sub>th</sub> that employs renewable energy as the primary technology</p> <p>Energy savings at a scale of no more than 20 GWh per year where energy efficiency is the primary activity</p> <p>Achieve GHG emissions reductions at a scale of no more than 20,000 tCO<sub>2</sub>eq per annum where project activity type is not included in the above two criteria.</p>	<p>The project boundary is defined in section B.3. of this VPA-DD.</p> <p>The VPA is considered as a large-scale project, which is allowed as per the applied methodology TPDDTEC.</p>

<p>For the purpose of applying UNFCCC methodologies for quantification of GHG reductions, 'small scale' is defined as in</p> <p>CDM Modalities and Procedures for three projects types; Renewable Energy, Energy Efficiency and Others. Please refer to the <a href="#">GHG Emission Reductions and Sequestration Product Requirements</a> for more information on the definition of 'small scale'.</p>	
<p>Certain Impact Quantification methodologies allow projects to account Suppressed Demand scenario when establishing a baseline. In such cases, the application of Suppressed Demand baseline is limited to Small Scale and Microscale Projects. Where a Suppressed Demand baseline is applied, it is not possible to 'stack' Gold Standard Certified Impact Statements or Products as the definition of the baseline may be contradictory.</p>	<p>The applied methodology TPDDTEC does not take into account a suppressed demand scenario for improved cookstoves.</p>
<p><b>Legal ownership:</b></p> <p>(a) Projects involving the distribution of a large number of devices for services such as heating, cooking, lighting, electricity generation, water treatment technology such as water filter, etc. shall provide a clear description of the ownership of the Products that are generated under Gold Standard Certification all along the investment chain. In line with the FPIC requirement, the proofs that end-users are aware of and willing to give up their rights on Products shall be provided.</p> <p>(b) The transfer of Product ownership shall be discussed during local stakeholder consultations for projects.</p>	<p>The project activity involves the distribution of large number of devices (improved cookstoves). End-users are aware of and willing to give up their rights on carbon credits. The transfer of carbon credit rights from end-users to the CME is mentioned by a strap and/or sticker on ICS box and warranty booklet, both handed over when purchasing the improved cookstove.</p> <p>The transfer of carbon credit Ownership has been discussed during the local stakeholder consultation.</p>

B.5.1. Prior Consideration

>> The time of first submission i.e. 01/11/2021 is within one year of the project start date (23/12/2020). This can be double checked on the Sustain-Cert registry.

B.5.2. Ongoing Financial Need

>>

Not applicable

**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 (mandatory)	Target 13.3	Emission Reductions
1 End poverty in all its forms everywhere	Target 1.4	Monetary savings related to the purchase of charcoal/firewood and/or time savings for the procurement of the fuel
3 Ensure healthy lives and promote well-being for all at all ages	Target 3.9	Perceived air quality
<u>4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</u>	<u>Target 4.3</u>	<u>Number of people receiving skill development training</u>
<u>5. Achieve gender equality and empower all women and girls</u>	<u>Target 5.4</u>	<u>Average time saving associated with cooking in the project scenario</u>
7 Ensure access to affordable, reliable sustainable and modern energy for all	Target 7.1 and 7.B	Number of sold/distributed ICS in use
8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Target 8.5	Number of jobs created

15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss      Target 15.3      Total non-renewable biomass saved

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

>>

The outcome of the SDG 13 will be measured as reduced CO<sub>2e</sub> emissions applying the GS methodology TPDDTEC. The SDG 13 outcome will be certified as “Certified SDG 13 Impacts” allowing the generation of carbon credits (GS VERs).

This VPA distributes highly efficient charcoal stoves which reduce charcoal consumption. The baseline fuel and the project fuel are the same and the baseline emission factor and project emission factor are considered the same. The overall GHG reductions achieved by the project activity in year y are calculated as follows:

$$ER_y = \sum_{b,p} (N_{p,y} * U_{p,y} * P_{p,b,y} * NCV_{b, fuel} * (f_{NRB,b,y} * EF_{fuel, CO2} + EF_{fuel, nonCO2})) - \sum LE_{p,y} \tag{1}$$

Where:

$\sum_{b,p}$	Sum over all relevant (baseline b/project p) couples
$N_{p,y}$	Cumulative number of project technology-days included in the project database for project scenario p against baseline scenario b in year y
$U_{p,y}$	Cumulative usage rate for technologies in project scenario p in year y, based on cumulative adoption rate and drop off rate revealed by usage surveys (fraction)
$P_{p,b,y}$	Specific fuel savings for an individual technology of project p against an individual technology of baseline b in year y, in tons/day, as derived from the statistical analysis of the data collected from the field tests

$f_{NRB,b,y}$	Fraction of biomass used in year $y$ for baseline scenario $b$ that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
$NCV_{b,fuel}$	Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.015 TJ/ton)
$EF_{b,fuel,CO2}$	CO2 emission factor of the fuel that is substituted or reduced. 112 tCO <sub>2</sub> /TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
$EF_{b,fuel,nonCO2}$	Non-CO2 emission factor of the fuel that is reduced. 9.46 tCO <sub>2</sub> /TJ (based on IPCC default)
$LE_{p,y}$	Leakage for project scenario $p$ in year $y$ (tCO <sub>2</sub> e/yr)

### Methodological choices/approaches related to SDG 1

The contribution of the project to SDG 1 will be confirmed by a random sample survey with a representative number of households in which the money spent for charcoal for preparing meals in the project scenario will be compared to the baseline scenario. It will be checked on whether households achieve indeed monetary savings using the improved charcoal cookstove, which would provide evidence that the project positively contributes to SDG 1.

### Methodological choices/approaches related to SDG 3

The contribution of the project to SDG 3 will be confirmed by a random sample survey with a representative number of households in which pollution-related inconveniences (such as smoke levels, itchy eyes and breathing problems) in the project scenario will be compared to the baseline scenario. In case that households confirm that due to the project there is less pollution-related inconveniences compared to the baseline scenario, it provides evidence that the project positively contributes to SDG 3.

### Methodological choices/approaches related to SDG 7

The contribution of the project to SDG 7 will be confirmed by the number of distributed improved charcoal stoves which are in use.

This is reflected by the following:  $N_{p,y} * U_{p,y}$

### Methodological choices/approaches related to SDG 8

The contribution of the project to SDG 8 will be confirmed by the number of jobs created.

B.6.2. Data and parameters fixed ex ante

**SDG13**

Data/parameter	EF <sub>b,CO2</sub>
Unit	tCO <sub>2</sub> /TJ
Description	CO <sub>2</sub> emission factor arising from use of fuel wood in baseline scenario
Source of data	2006 IPCC Guidelines for National Greenhouse Gas Inventories, volume 2, chapter 2 (Table 2.5)
Value(s) applied	112
Choice of data or Measurement methods and procedures	Default IPCC value for fuel wood is applied
Purpose of data	Calculation of baseline emissions
Additional comment	If EF is in units of tCO <sub>2</sub> /t <sub>fuel</sub> , remove NCV term from emission calculations. Term can include a combination of emission factors from fuel production, transport, and use.

Data/parameter	EF <sub>b,non-CO2</sub>
Unit	tCO <sub>2e</sub> /TJ
Description	Non-CO <sub>2</sub> emission factor arising from use of fuel wood in baseline scenario
Source of data	IPCC Default for wood
Value(s) applied	9.46
Choice of data or Measurement methods and procedures	IPCC Default for wood
Purpose of data	Non-CO <sub>2</sub> Emission calculation in baseline
Additional comment	If EF is in units of tCO <sub>2</sub> /t <sub>fuel</sub> , remove NCV term from emission calculations. Term can include a combination of emission factors from fuel production, transport, and use.

Data/parameter	EF <sub>p,CO2</sub>
Unit	tCO <sub>2</sub> /TJ
Description	CO <sub>2</sub> emission factor arising from use of fuel wood in project scenario

Source of data	2006 IPCC Guidelines for National Greenhouse Gas Inventories, volume 2, chapter 2 (Table 2.5)
Value(s) applied	112
Choice of data or Measurement methods and procedures	Default IPCC value for fuel wood is applied.
Purpose of data	Calculation of project emissions
Additional comment	If EF is in units of tCO <sub>2</sub> /t <sub>fuel</sub> , remove NCV term from emission calculations. Term can include a combination of emission factors from fuel production, transport, and use.

Data/parameter	EF <sub>p, non-CO2</sub>
Unit	tCO <sub>2</sub> e/TJ
Description	Non-CO <sub>2</sub> emission factor arising from use of fuel wood in project scenario
Source of data	IPCC Default for wood
Value(s) applied	9.46
Choice of data or Measurement methods and procedures	IPCC Default for wood
Purpose of data	Non-CO <sub>2</sub> emission calculation in project scenario
Additional comment	If EF is in units of tCO <sub>2</sub> /t fuel, remove NCV term from emission calculations. Term can include a combination of emission factors from fuel production, transport, and use.

Data/parameter	NCV <sub>b</sub>
Unit	TJ/ton of fuel wood
Description	Net calorific value of the fuel wood used in baseline
Source of data	IPCC default 2006, volume 2, chapter 1 (Table 1.2)
Value(s) applied	0.015
Choice of data or Measurement methods and procedures	Default IPCC value for fuel wood is applied
Purpose of data	Calculation of baseline emissions
Additional comment	-

Data/parameter	NCV <sub>p</sub>
Unit	TJ/ton of fuel wood

Description	Net calorific value of the fuel wood used in project scenario
Source of data	IPCC default 2006, volume 2, chapter 1 (Table 1.2)
Value(s) applied	0.015
Choice of data or Measurement methods and procedures	Default IPCC value for fuel wood is applied.
Purpose of data	Calculation of project emissions
Additional comment	-

Data/parameter	$f_{NRB,i,y}$
Unit	fraction
Description	Non-renewability status of woody biomass fuel in scenario i during year y
Source of data	fNRB Report for DRC dated 26/10/2021 by Delta Ecology
Value(s) applied	0.73998(73.998%)
Choice of data or Measurement methods and procedures	$f_{NRB}$ assessment based on CDM fNRB tool, Tool 30, version 03.0 <sup>14</sup>
Purpose of data	Calculation of emission reductions
Additional comment	The fNRB value will remain fixed during the crediting period

Data/parameter	Wood-to-charcoal conversion factor (CF)
Unit	kg firewood / kg charcoal
Description	Conversion factor for transforming fuel wood into charcoal
Source of data	IPCC default value
Value(s) applied	6
Choice of data or Measurement methods and procedures	Default IPCC value (1996 IPCC Guidelines for National Greenhouse Gas Inventories) is applied ( <a href="https://www.ipcc-nggip.iges.or.jp/public/gl/guidelin/ch1ref3.pdf">https://www.ipcc-nggip.iges.or.jp/public/gl/guidelin/ch1ref3.pdf</a> )
Purpose of data	Used to calculate fuel savings in fuel wood equivalent

<sup>14</sup> <https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-30-v3.0.pdf>

Additional comment	Fixed ex-ante at VPA level
Data/parameter	$P_{b,y}$
Unit	t/household/year
Description	Quantity of charcoal that is consumed in baseline scenario b during year y
Source of data	Baseline KPT
Value(s) applied	1.35748
Choice of data or Measurement methods and procedures	This value is based on baseline KPT (for more details see section B.4.)
Purpose of data	Used to calculate the fuel savings
Additional comment	The baseline will remain by-default fixed during the crediting period since the project activity targets non-industrial applications (see page 6 of TPDDTEC).

### B.6.3. Ex ante estimation of SDG Impact

>>

#### Ex-ante calculations related to the outcomes of SDG 13:

The transparent ex-ante calculations of the outcomes of SDG 13 (i.e. CO<sub>2</sub>e reductions) are provided in a separate excel spreadsheet uploaded to GS registry. The methodology directly provides the following equation for emission reductions; without separate baseline, project or leakage emission reduction equations.

$$ER_y = \sum_{b,p} (N_{p,y} * U_{p,y} * P_{p,b,y} * NCV_{b, fuel} * (f_{NRB,b,y} * EF_{fuel, CO2} + EF_{fuel, nonCO2})) - \sum LE_{p,y} \tag{1}$$

Where:

$\sum_{b,p}$	Sum over all relevant (baseline b/project p) couples
$N_{p,y}$	Cumulative number of project technology-days included in the project database for project scenario p against baseline scenario b in year y

$U_{p,y}$	Cumulative usage rate for technologies in project scenario p in year y, based on cumulative adoption rate and drop off rate revealed by usage surveys (fraction)
$P_{p,b,y}$	Specific fuel savings for an individual technology of project p against an individual technology of baseline b in year y, in tons/day, as derived from the statistical analysis of the data collected from the field tests
$f_{NRB,b,y}$	Fraction of biomass used in year y for baseline scenario b that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
$NCV_{b,fuel}$	Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.015 TJ/ton)
$EF_{b,fuel,CO2}$	CO2 emission factor of the fuel that is substituted or reduced. 112 tCO2/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
$EF_{b,fuel,nonCO2}$	Non-CO2 emission factor of the fuel that is reduced. 9.46 tCO2/TJ based on IPCC.
$LE_{p,y}$	Leakage for project scenario p in year y (tCO2e/yr)

$$P_{p,b,y} = (P_{b,y} - P_{p,y}) * CF$$

$P_{p,b,y}$  = Specific fuel savings in wood equivalent

$P_{b,y}$  = Baseline fuel consumption

$P_{p,y}$  = Project fuel consumption

CF = Wood-to-charcoal conversion factor

For data/parameters available before design certification, values contained in section B.6.3 and for data/parameters not available before design certification and monitored during the crediting period, the estimates contained in section B.7.1 have been used.

### Ex-ante calculations related to the outcomes of SDG 1

N/A. For ex-ante purposes, it is estimated that households achieve monetary savings of around 45.20% in average. The monitoring of SDG 1 is made through a qualitative evaluation of sample households during the usage/monitoring survey. For this aspect no specific calculations are needed.

### Ex-ante calculations related to the outcomes of SDG 3

N/A. For ex-ante purposes, it is estimated that at least 98.94% (as per Usage survey done for first performance review of the project) of households perceive improved air quality. Since monitoring of SDG 3 is made through a qualitative evaluation of sample

households during the usage/monitoring survey. For this aspect no specific calculations are needed.

#### **Ex-ante calculations related to SDG 4**

The successful implementation of the project will require multiple training efforts to ensure adequate implementation capacity. These training sessions, availed primarily to young women and men (ages 18 – 36) in DRC will encompass a variety of training modules including data collection, survey development, stakeholder consultation management and specific training on the use of ICS. These transferrable skill sets will add value to the recipients of these training modules.

This co-benefit is specifically tracked against the total number of employees (full-time, part-time or temporary) who received training services of any type during the project implementation (reported annually as per the corresponding monitoring period). As such, the methodological choices are directly in line with the SDG 4 Target Indicator 4.4.

The specific SDG 4 impact to be assessed in the project scenario is the number of people receiving skill development training. Records of training sessions, confirming training materials, signed attendance lists and locations will be provided as evidence of the total number of people trained for the project activity.

#### **Ex-ante calculations related to SDG 5**

A key benefit of the use of ICS technology is the time savings, particularly for women, during firewood collection and cooking on the Project ICS. The utilization of ICS technology can save up to 80 minutes saved cooking on the project ICS which can be used to alleviate the domestic constraints that women suffer in unaccounted or devalued domestic labor.

The specific SDG 5 impact to be assessed in the average time saving associated with cooking in the project scenario. During monitoring campaigns, end-users will provide time estimates of cooking duration in the project scenario against estimates in the baseline scenario. The average difference, statistically weighted for stove age, shall be used to monitor the time savings in the project scenario.

#### **Ex-ante calculations related to the outcomes of SDG 7**

The parameter 'project technologies in use' will be calculated as part of the outcome calculation for SDG 13 and is provided in the separate ER calculation excel spreadsheet. The distributed cookstoves ( $N_{p,y}$ ) are multiplied with the usage rate ( $U_{p,y}$ ) to determine the 'project technologies in use'.

#### **Ex-ante calculations related to the outcomes of SDG 8**

N/A. For ex-ante purposes, the number of created jobs has been estimated to be 25 and no specific calculation is needed.

Monitoring of SDG 8 is conducted through the employee lists summing up the total number of jobs created.

**Ex-ante calculations related to SDG 15**

The use of the ICS technology will create fuel savings, calculated as the aggregate difference in total firewood consumed for cooking activities in the project scenario as compared to the baseline scenario. The project will deploy at least 49,357.49 ICSs and as such, the project will have a significant effect on reduced non-renewable biomass consumption rates in the country.

The specific SDG 15 impact to be assessed is the total non-renewable biomass saved. The average fuel savings for each household (the monitored value Pp,b,y) shall be multiplied by the discounted number of operational ICSs (Np,y \* Up,y) and thereafter multiplied by the nonrenewable Biomass fraction in the country (f NRB,b, y).

Nonrenewable Biomass saved = Pp,b,y \* Np,y \* Up,y \* f NRB,b, y

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

**B.6.5. SDG 13**

Less charcoal is used in the project Improved cookstoves in comparison to baseline scenario thereby resulting in Emission reductions for the project activity. The project would result in 98,387 tCO2e annual average emission reductions.

Year	Baseline estimate	Project estimate	Net benefit
Year 1	50,476	19,884	30,592
Year 2	152,018	59,884	92,134
Year 2	203,062	79,992	123,070
Year 4	203,062	79,992	123,070
Year 5	203,062	79,992	123,070
Total	811,678	319,743	491,935
<b>Total number of crediting years</b>	<b>5</b>		
<b>Annual average over the crediting period</b>	162,336	63,949	98,387

**SDG 1**

Less money is spent for purchasing charcoal in the project scenario compared to the baseline scenario. It is estimated that households achieve monetary savings of around 45.20% in average.

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0%	45.20% <sup>15</sup>	45.20%
Year 2	0%	45.20%	45.20%
Year 2	0%	45.20%	45.20%
Year 4	0%	45.20%	45.20%
Year 5	0%	45.20%	45.20%
Total	N/A	N/A	N/A
<b>Total number of crediting years</b>	<b>5</b>		
<b>Annual average over the crediting period</b>	0%	45.20%	45.20%

### **SDG 3**

Less pollution-related inconveniences (such as smoke levels, itchy eyes and breathing problems) in the project scenario compared to the baseline scenario. It is estimated that at least 80% of households perceive improved air quality.

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0%	98.94% <sup>16</sup>	98.94%

<sup>15</sup> In the project activity, it is envisaged that households save 45.20% for charcoal expenditure instead of 0% in the baseline scenario. This results in charcoal savings of 45.20% (indicated in the column 'Net benefit').

<sup>16</sup> In the project activity, 98.94% HH indicated improved air quality whereas rest did not answer (indicated in the column 'Net benefit').

Year	2	0%	98.94%	98.94%
Year	2	0%	98.94%	98.94%
Year	4	0%	98.94%	98.94%
Year	5	0%	98.94%	98.94%
Total		N/A	N/A	N/A
<b>Total number of crediting years</b>	<b>5</b>			
<b>Annual average over the crediting period</b>		0%	98.94%	98.94%

**SDG 4**

The training opportunities availed by way of implementation of the project activity would not be realized in its absence. It is estimated that the project activity has net positive impact.

<u>Year</u>	<u>Baseline estimate (Number of people receiving training)</u>	<u>Project estimate (Number of people receiving training)</u>	<u>Net benefit (Number of people receiving training)</u>
<u>Year 1</u>	<u>0</u>	<u>100</u>	<u>100</u>
<u>Year 2</u>	<u>0</u>	<u>100</u>	<u>100</u>
<u>Year 2</u>	<u>0</u>	<u>100</u>	<u>100</u>
<u>Year 4</u>	<u>0</u>	<u>100</u>	<u>100</u>
<u>Year 5</u>	<u>0</u>	<u>100</u>	<u>100</u>
<b><u>Total</u></b>	<b><u>NA</u></b>	<b><u>NA</u></b>	<b><u>NA</u></b>
<b><u>Total number of crediting years</u></b>	<b><u>5</u></b>		

<b><u>Annual average over the crediting period</u></b>	<b><u>0</u></b>	<b><u>100</u></b>	<b><u>100</u></b>
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**SDG 5**

The fuel savings projected to be experienced in the project scenario are not present in the baseline. The time savings in the project scenario are a net benefit.

<b><u>Year</u></b>	<b><u>Baseline estimate (Minutes)</u></b>	<b><u>Project estimate (Minutes)</u></b>	<b><u>Net benefit (Minutes)</u></b>
<u>Year 1</u>	<u>0</u>	<u>80</u>	<u>80</u>
<u>Year 2</u>	<u>0</u>	<u>80</u>	<u>80</u>
<u>Year 2</u>	<u>0</u>	<u>80</u>	<u>80</u>
<u>Year 4</u>	<u>0</u>	<u>80</u>	<u>80</u>
<u>Year 5</u>	<u>0</u>	<u>80</u>	<u>80</u>
<u>Total</u>	<u>NA</u>	<u>80</u>	<u>80</u>
<b><u>Total number of crediting years</u></b>	<b><u>5</u></b>		
<b><u>Annual average over the crediting period</u></b>	<b><u>0</u></b>	<b><u>80</u></b>	<b><u>80</u></b>

SDG 7

It is estimated that 20,000 ICS (yr-stoves) will have been distributed by the end of the first crediting period. An average usage rate of 90% is expected. This would mean an expected annual average 14,390 ICS in use for the 1<sup>st</sup> crediting period which contribute to SDG 7.

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0	4,474	4,474
Year 2	0	13,475	13,475
Year 2	0	18,000	18,000
Year 4	0	18,000	18,000
Year 5	0	18,000	18,000
<b>Total</b>	N/A	N/A	N/A
<b>Total number of crediting years</b>	5		
<b>Annual average over the crediting period</b>	0	14,390	14,390

SDG 8

It is estimated that the project creates at least 25 jobs over 5 years (1st Crediting period)

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0	25	25
Year 2	0	25	25
Year 2	0	25	25
Year 4	0	25	25
Year 5	0	25	25
Total	0	25	25
<b>Total number of crediting years</b>	<b>5</b>		

<b>Annual average over the crediting period</b>	0	25	25
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**SDG 15**

The non-renewable biomass savings are created in the project scenario as a function of reduced charcoal consumption. The estimates of the NRB savings presented below are a net benefit.

<u>Year</u>	<u>Baseline estimate</u>	<u>Project estimate</u>	<u>Net benefit</u>
<u>Year 1</u>	<u>0</u>	<u>5,523.62</u>	<u>5,523.62</u>
<u>Year 2</u>	<u>0</u>	<u>10,958.47</u>	<u>10,958.47</u>
<u>Year 3</u>	<u>0</u>	<u>10,958.47</u>	<u>10,958.47</u>
<u>Year 4</u>	<u>0</u>	<u>10,958.47</u>	<u>10,958.47</u>
<u>Year 5</u>	<u>0</u>	<u>10,958.47</u>	<u>10,958.47</u>
<u>Total</u>	<u>0</u>	<u>49,357.49</u>	<u>49,357.49</u>
<b><u>Total number of crediting years</u></b>	<b><u>5</u></b>		
<b><u>Annual average over the crediting period</u></b>	<b><u>0</u></b>	<b><u>9,871.50</u></b>	<b><u>9,871.50</u></b>

**B.7. Monitoring plan**

B.7.1. Data and parameters to be monitored

**SDG 13**

Data / Parameter	$N_{p,y}$
Unit	Number of project cookstove credited (units)

Description	Cookstoves in the project database for project scenario p through year y
Source of data	Total distribution record
Value(s) applied	For ex-ante estimation, it is assumed that 15,989 full year stoves will be credited in average peryear. <sup>17</sup>
Measurement methods and procedures	<p>BURN keeps records of all distributed ICS in an electronic database. As a minimum the following information will be recorded through a cloud-based web platform (like e.g. Eco Mobile<sup>18</sup> or KoboCollect<sup>19</sup>) in the database:</p> <ul style="list-style-type: none"> <li>• Unique serial number (USN) of the ICS</li> <li>• Date of shipment to distributor/retailer</li> <li>• Name of distributor/retailer</li> <li>• Quantity of ICS distributed</li> <li>• Geographic area (state) of distributor/retailer</li> <li>• Model type of the ICS</li> </ul> <p>Besides, the distribution database will contain end-user contact details (name, province, mobile number) of at least 10 times the survey and field test sample size (including usage surveys for each age of product), in order to ensure an adequate end-user pool to which random sampling can be applied. In order to claim the ICS warranty, end-users have to register their end-user details at the point of sale .</p>
Monitoring frequency	Continuously
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Estimation of CO2e emission reductions
Additional comment	The total distribution record is divided based on project scenario to create the project database. Any multiple use of the same BURN ICS as well as the lag time between sale/shipping and actual usage is

<sup>17</sup> This number is a preliminary estimate and the actual number ex-post can be lower or higher

<sup>18</sup> <https://echomobile.io/>

<sup>19</sup> <https://www.kobotoolbox.org/>

	conservatively taken into account
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Data / Parameter	$P_{p,y}$
Unit	t/household/year
Description	Quantity of fuel that is consumed in project scenario p during year y
Source of data	Project KPT
Value(s) applied	0.53475
Measurement methods and procedures	Has been determined through project KPT. The procedure as per Annex 4 of the applied methodology TPDDTEC has been followed.
Monitoring frequency	Every 2 years
QA/QC procedures	Transparent data analysis and reporting. 90/30 precision is met
Purpose of data	Used to calculate the fuel savings
Additional comment	A single project fuel consumption parameter is weighted to be representative of the quantity of project technologies of each age being credited in a given project scenario.

Data / Parameter	$\mu_y$
Unit	Fraction
Description	Adjustment to account for any continued use of pre-project devices (baseline stove) in the project scenario during the year y
Source of data	Monitoring/usage surveys
Value(s) applied	Monitored parameter
Measurement methods and procedures	Any of the following approach with justification on how the chosen option fits within project circumstances 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

	Monitoring surveys 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 Monitoring surveys to capture the number of meals cooked
Monitoring frequency	Annual
QA/QC procedures	-
Purpose of data	Calculation of emission reductions
Additional comment	

Data / Parameter	$LE_{p,y}$
Unit	tCO <sub>2</sub> e per year
Description	Leakage in project scenario p during year y
Source of data	Baseline and monitoring surveys
Value(s) applied	0 (for ex-ante estimation)
Measurement methods and procedures	-  Every two years
Monitoring frequency	
QA/QC procedures	Transparent data analysis and reporting
Purpose of data	Used to calculate leakage emissions
Additional comment	Aggregate leakage can be assessed for multiple project scenarios, if appropriate

**SDG 1**

Data / Parameter	Monetary savings related to the purchase of charcoal
Unit	-
Description	Monetary savings related to the purchase of charcoal
Source of data	Survey

Value(s) applied	45.20% (for ex-ante estimate)
Measurement methods and procedures	Carrying out surveys (either site visits or telephone surveys) to check on the money spent for purchasing charcoal in the project scenario compared to the baseline scenario
Monitoring frequency	At least once every two years (biennial)
QA/QC procedures	-
Purpose of data	Reporting on SDG 1
Additional comment	This parameter is measured qualitatively, but not quantitatively.

**SDG 3**

Data / Parameter	Perceived air quality
Unit	-
Description	Smoke levels, itchy eyes and breathing problems
Source of data	Survey
Value(s) applied	98.94% perceive an improved air quality (ex-ante estimate)
Measurement methods and procedures	Carrying out surveys (either site visits or telephone surveys) to check on the pollution-related inconveniences (such as smoke levels, itchy eyes and breathing problems) in the project scenario compared to the baseline scenario.
Monitoring frequency	At least once every two years (biennial)
QA/QC procedures	-
Purpose of data	Reporting on SDG 3
Additional comment	This parameter is measured qualitatively, but not quantitatively.

**SDG 4**

<u>Data / Parameter</u>	<u>Number of people trained</u>
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<u>Unit</u>	<u>Number</u>
<u>Description</u>	<u>Number of people who participated in project trainings</u>
<u>Source of data</u>	<u>Training records and participation lists</u>
<u>Value(s) applied</u>	<u>100</u>
<u>Measurement methods and procedures</u>	<u>Training records and participation lists</u>
<u>Monitoring frequency</u>	<u>Annual</u>
<u>QA/QC procedures</u>	<u>Transparent data analysis and reporting</u>
<u>Purpose of data</u>	<u>Reporting on sustainable development of the project</u>
<u>Additional comment</u>	<u>=</u>

**SDG 5**

<u>Data / Parameter</u>	<u>Average number of minutes saved while cooking in project scenario (user estimate of comparative cooking time in baseline to project scenario)</u>
<u>Unit</u>	<u>Minutes</u>
<u>Description</u>	<u>Number of minutes spent on average for cooking in the project scenario</u>
<u>Source of data</u>	<u>Project monitoring survey</u>
<u>Value(s) applied</u>	<u>80</u>
<u>Measurement methods and procedures</u>	<u>Statistical average of the end-user reported difference between the number of minutes spent cooking in the project scenario compared to baseline conditions for similar meals</u>
<u>Monitoring frequency</u>	<u>Annual</u>
<u>QA/QC procedures</u>	<u>Transparent data analysis and reporting</u>

<u>Purpose of data</u>	<u>Reporting on sustainable development of the project</u>
<u>Additional comment</u>	-

## SDG 7

Data / Parameter	Number of sold/distributed ICS in use
Unit	Number of units in use
Description	Number of sold/distributed ICS in use
Source of data	Project database
Value(s) applied	For ex-ante estimation, it is assumed that 14,390 full year stoves will be credited in average per year. <sup>20</sup> The usage rate is expected to be 90%.
Measurement methods and procedures	The total number of ICS sold/distributed is summed up in the database
Monitoring frequency	Continuously
QA/QC procedures	-
Purpose of data	Reporting on SDG 7
Additional comment	-

## SDG 8

Data / Parameter	Number of jobs created
Unit	Number
Description	Number of jobs created
Source of data	Project records like contracts, payment slips, employee list or others

<sup>20</sup> This number is a preliminary estimate and the actual number ex-post can be lower or higher.

Value(s) applied	25 jobs expected to be created
Measurement methods and procedures	-
Monitoring frequency	Annually
QA/QC procedures	Employee list can be cross-checked with contracts/payment slips or others
Purpose of data	Reporting on SDG 8
Additional comment	-

<u>Data / Parameter</u>	<u>Total amount of non-renewable fuel savings due to displacement or energy efficiency improvements of baseline technology</u>
<u>Unit</u>	<u>Tons</u>
<u>Description</u>	<u>Reduced non-renewable biomass consumption attributed to charcoal savings</u>
<u>Source of data</u>	<u>Project database, Monitoring &amp; Usage Surveys</u>
<u>Value(s) applied</u>	<u>49,357.49</u>
<u>Measurement methods and procedures</u>	<u>Computed as a function of specific fuel savings for an individual technology multiplied by the total number of operational technologies (discounted for usage rate in the monitoring period) and the non-renewable Biomass fraction in DRC.</u>
<u>Monitoring frequency</u>	<u>Annual</u>
<u>QA/QC procedures</u>	<u>Transparent data analysis and reporting</u>
<u>Purpose of data</u>	<u>Reporting on sustainable development of the project</u>
<u>Additional comment</u>	

B.7.2. Sampling plan

>>

Ongoing monitoring

*Usage survey:* An annual usage survey determines the drop off rates as project technologies age and users switch back to the baseline technology<sup>21</sup>. The usage parameter will be weighted to be representative of the quantity of project technologies of each age being credited in a given project scenario. The minimum total sample size is 100 randomly selected households, with at least 30 samples for project technologies of each age being credited. The majority of interviews will be conducted in person by BURN staff or by hired externals which would be trained before and include expert observation by the interviewer within the kitchen in question, while the remainder may be conducted via telephone by the same interviewers on condition that in-kitchen observational interviews are first concluded and analyzed such that typical circumstances are well understood by the telephone interviewers. The GS cookstove usage rate guidelines<sup>22</sup> will be followed.

*Monitoring survey:* Along with the usage survey, a monitoring survey is carried out annually to assess end-user characteristics such as technology use, fuel consumption and seasonal variation.

At least with every 2<sup>nd</sup> monitoring survey a leakage assessment will be conducted. The leakage assessment evaluates if the project has in any way lead to an increase in emissions outside of the project boundary and if the increase will be directly attributed to the project activity. The leakage assessment is done in the following:

Potential leakage source	Probability	Justification
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<sup>21</sup> It may be the case that the drop off rate is lower in the second year than in the first year, reflecting possible difficulties in the early adoption of a new technology.

<sup>22</sup> <https://globalgoals.goldstandard.org/407g-ee-ics-tpddtec-usage-guidelines/>

<p>The displaced baseline technologies are reused outside the project boundary in place of lower emitting technology or in a manner suggesting more usage than would have occurred in the absence of the project.</p>	<p>Very low</p>	<p>The displaced baseline technology is the most common and easily available cooking method in the project area and most of households usually sale off the old stove as scrap metal or throw it away upon purchase of ICS. It is highly unlikely that displaced baseline technology is reused outside the project boundary.</p>
<p>Non-project users who previously used lower emitting energy sources use the non-renewable biomass or fossil fuels saved under the project activity.</p>	<p>Can be excluded</p>	<p>Project users have to spend money for the charcoal. It can be excluded that the fuel saved by the project would be given for free by the project users and used by non-project users who previously used lower emitting energy sources.</p>

<p>The project significantly impacts the NRB fraction within an area where other CDM or VER project activities account for NRB fraction in their baseline scenario.</p>	<p>Very low</p>	<p>The project is too small that it would significantly have an impact on the NRB fraction. Besides, demand for charcoal in DRC is continuously rising. Since alternative fuels (like LPG or electricity) are out of reach for many people. Hence, the share of NRB remains high and it will not have a leakage impact on other carbon projects in DRC.</p>
<p>The project population compensates for loss of the space heating effect of inefficient technology by adopting some other form of heating or by retaining some use of inefficient technology.</p>	<p>Very low</p>	<p>The climate conditions for most of the areas in DRC do usually not require space or room heating. It is very unlikely that the charcoal ICS would be used for space or room heating. This can be confirmed through annual monitoring surveys.</p>
<p>By virtue of promotion and marketing of a new technology with high efficiency, the project stimulates substitution within households who commonly used a technology with relatively lower emissions, in cases where such a trend is not</p>	<p>Can be excluded</p>	<p>The project’s target group is households using charcoal. It is highly unlikely that households using LPG or electricity for cooking would use the project technology. Thus, leakage can be excluded.</p>

eligible as an evolving baseline.		
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The PP will update the project fuel consumption by carrying out biennial *project KPTs* to account for changes in the project scenario over time as project technologies age. Alternatively, the PP will monitor following Annex 8 of TPDDTEC the degradation in the performance of cookstove efficiency following the WBT and accordingly adjust the project fuel consumption level.

In case of choosing the first option, KPTs would follow the 90/30 rule in case of a paired or independent sampling or the 90/10 rule in case of single sample tests. In case that the 90/30 rule (in case of paired or independent sampling) or 90/10 rule (in case of single sample test) is not met, additional random samples will be taken or the upper bound of the 90% confidence interval will be applied. The procedures as outlined in section 7 and Annex 4 of the applied methodology will be followed. For the ex-ante ER calculation, a project KPT has been done following 90/30 precision.

All of the aforementioned surveys/tests (except WBTs) are intended to be carried out with smartphones (by using e.g. Echomobile or KoboCollect software tool) and as soon as the user is online all the captured data are transferred to a centralized database. The team of BURN and the external carbon consultant carries out from there the further data analysis. If smartphone technology for any reason cannot be used, data will be recorded in paper form.

The sampling frame for the aforementioned ICS surveys comprises of all households making part of the carbon database. The sampling frame for the KPTs/WBTs consist of all households using the project ICS.

The surveys/tests will be carried out by BURN staff or by hired externals which would be trained before. Quality of the data will be checked by the carbon consultant.

The survey for SDGs 1 and 3 follows the same sampling design as the usage survey to determine the usage rate. The households to be surveyed for SDGs 1 and 3 will be the same as the ones surveyed for  $U_{p,y}$ .

The VPA will make part of a single sampling covering a group of VPAs, as soon as there are other homogenous VPAs, i.e. apply the same ICS model (Jikokoa stove) and fuel (charcoal), and target the same end-users (i.e. households) within the same geographical area, i.e. 16 provinces in DRC.

### B.7.3. Other elements of monitoring plan

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#### Monitoring of $N_{D,Y}$

BURN keeps records of all distributed ICS in an electronic database. As a minimum the following information will be recorded through a cloud-based web platform (like e.g. EchoMobile<sup>29</sup> or KoboCollect<sup>30</sup>) in the database:

- Unique serial number (USN) of the ICS
- Date of shipment to distributor/retailer
- Name of distributor/retailer
- Quantity of ICS distributed
- Geographic area (state) of distributor/retailer
- Model type of the ICS

Besides, the distribution database will contain end-user contact details (name, province, mobile number,) of at least 10 times the survey and field test sample size (including usage surveys for each age of product), in order to ensure an adequate end-user pool to which random sampling can be applied. In order to claim the ICS warranty, end-users have to register their end-user details at the point of sale.

The USN of each ICS entered into the distribution database will be linked to a distribution date (recorded during distribution) or shipment date. Thus, for any monitoring period it is possible to calculate the period of time for which the stoves included in the emissions reduction calculations are deemed operating. A stove will be counted as operational (= start crediting) from the next day following the stove distribution or after a conservatively calculated period of the date of shipment. The sum

of the operating fractions of all appliances determines the equivalent full-time appliances for the monitoring period.

The USN has the following format comprising of 9 digits<sup>31</sup>:

1 <sup>st</sup> digit	2 <sup>nd</sup> digit	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>
Product ID	100000 <sup>th</sup>	10000 <sup>th</sup>	1000 <sup>th</sup>	100 <sup>th</sup>	10 <sup>th</sup>	Random	Random	1 <sup>st</sup>
<b>ID</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>R1</b>	<b>R2</b>	<b>S6</b>

Each section on the USN will identify the product as follows:

- Product type: the first digit identifies the stove type (Jikokoa)
- # Production number: S1 to S6 are digit slots for a sequential numbering ordered by time of production, allowing for 1 million unique serial numbers. For instance, the first stove off the line would have “000000” for its S1-S6 digits.
- Random digits: R1 and R2 are 2 random digits placed in slots 7 & 8, to make the USN unpredictable to outside parties

Example for USN: 105097338

- “1” stands for Jikokoa product ID
- “050978” for S1-S6, meaning it was the 50,979<sup>th</sup> Jikokoa produced
- “33” for R1-R2, the random digits

The data for the system will be updated and modified as required to allow for optimal performance of each VPA implementation and monitoring. All data will be stored for at least two (2) years after the expiry of the crediting period.

## SECTION C. DURATION AND CREDITING PERIOD

### **C.1. Duration of project**

#### C.1.1. Start date of VPA

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23/12/2020<sup>32</sup>

The above-mentioned date is the date when the distribution of ICS under this VPA started. The definition of the project start date is in compliance with section 3.4.3 of the GS4GG Principles & Requirements.

#### C.1.2. Expected operational lifetime of VPA

>>

15 years (3 x 5 years)

### **C.2. Crediting period of project**

#### C.2.1. Start date of crediting period

>>

01/01/2021

#### C.2.2. Total length of crediting period

>> 5 years. The crediting period may be renewed twice in line with the Community Services Activity Requirements.

## 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](#), ongoing monitoring is summarised below.

PRINCIPLES

MITIGATION MEASURES ADDED TO THE MONITORING PLAN

**Not applicable**

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

<p>Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?</p>	<p>The project activity doesn't endorse any form of discrimination based on gender. DRC has ratified ILO Convention 111 (Discrimination (employment and occupation) Convention<sup>33</sup>. All inhabitants of DRC may turn to the UN Human Rights Committee, to the “Special Rapporteurs” for violations of specific human rights or to ECOSOC for women’s rights violations.<sup>34</sup></p> <p>ICS can be purchased and used by any of the women within the project boundary willing to participate in the program. It will therefore not put at risk women’s access to or control to efficient cookstoves. It’s not foreseen either any reduction or risk related to any other resource, entitlement or benefit.</p> <p>Women/children (being the ones mostly spending time for cooking and fuel procurement) are able to spend less time on cooking/fuel procurement and cook in a much cleaner kitchen environment with less pollutants and dirt, resulting in health benefits and</p>
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	<p>more time for income generating activities and education. The project will help to improve womens’ health conditions as reduced combustion and less harmful gases during combustion will reduce indoor air pollution and thereby increase respiratory health of the women and children.</p> <p>Both women and men were participating in the local stakeholder consultation meeting.</p> <p>A strong focus has been put on women associations and groups when inviting stakeholders to the physical meeting. It is envisaged that women will be at the center of the project developer’s marketing, education and distribution chain. It is planned that women in selected communities will demonstrate and educate consumers on the cookstove and its benefits resulting in empowerment, knowledge transfer and generation of jobs for women.</p>
<p>Question 2 - Explain how the project aligns with existing country policies, strategies and best practices</p>	<p>The Project is in line with DRC’s constitution.<sup>35</sup></p> <p>DRC has ratified the principle of equality into its respective constitution (Article 14), which does not tolerate any discrimination concerning women. Article 14 mentions the following “the public powers see to the elimination of any form of discrimination concerning women and assure the protection and the promotion of their rights. They take, in all the domains, notably in the civil, political, economic, social and cultural domains, all the measures appropriate to assure the total realization and full participation of women in the development of the Nation. Women have the right to an equitable representation within the national, provincial and local institutions. The State guarantees the implementation of man-woman parity in</p>

	these said institutions.”
Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	Not applicable, since not necessary.
Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	Not applicable, since not necessary.

## 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

>>

Not applicable

See LSC report for more details in regard to the initial consultation and stakeholder 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 Process Book (mandatory)	Altech Group Head Office 942, Av. Colonel Mondjiba Kintambo Magasin Commune de Ngaliema Kinshasa, DRC
GS Contact (mandatory)	<a href="mailto:help@goldstandard.org">help@goldstandard.org</a>
Other	Telephone access: BURN Kenya: +254 706 585629 Altech (DRC): +243 822 230 188 Email access: BURN: <a href="mailto:info@burnmfg.com">info@burnmfg.com</a> Altech (DRC): <a href="mailto:contact@altech-rdc.com">contact@altech-rdc.com</a>

## SECTION F. Eligibility and inclusion criteria for VPAs inclusion

>>

The below table shall be completed for all VPAs.

The CME shall provide clear description on how eligibility criteria set at real case VPAs are complied with for each real case and regular VPAs submitted for inclusion.

The CME shall not change the eligibility criteria and required condition set at real case VPAs. At the time of inclusion of regular VPAs, the CME shall only describe how the regular VPAs comply with the eligibility criterion.

No	Eligibility Criterion	Description/ Required condition	Description of the VPA in relation to the criteria, Means of Verification and Supporting evidence for inclusion
1	Geographical boundary	distributed <sup>23</sup> under any of the VPAs will be located in any of the countries mentioned under Table 1 of the PoA-DD.	ICS are distributed to urban and peri urban households across 16 provinces of DRC. For more details see section A.2. of this document.
2	Double-counting of project activities	All VPAs will be checked to prevent double counting and are not registered as a separate GS project activity, nor included as part of another registered GS (or other carbon standard) PoA nor that the project activity has been deregistered.	All carbon standard registries (UNFCCC, GS and VERRA) have been checked and it is confirmed that the VPA has not been registered as a separate GS project activity, nor included as part of another registered GS (or other carbon standard) PoA nor that the project activity has been deregistered. The same has been confirmed by a letter signed by the VPA

<sup>23</sup> Distributed<sup>1</sup> may include the free distribution of ICS, sale to full cost or subsidized cost.

			implementer which shall be submitted to VVB
3	Technology	Each VPA will implement improved biomass cook stoves.	The VPA implements highly efficient cookstoves known as 'Jikoko'. Detailed manufacturer's technology specifications are listed in section A.3 of this document.
4	Conditions to check the start date of the VPA through documentary evidence	The start date of a project activity is the date on which the first ICS has been distributed under the VPA. The start date of retroactive VPAs (with a start date prior to date of first submission of PoA) can be at the earliest 1 year prior to submission of documents for GS preliminary review	The start date is 23/12/2020, i.e. the day when the first ICS was distributed to a household under this VPA. The start date of the VPA can be confirmed by an electronic registration done on koboCollect which shall be submitted to VVB. The project start date is before the 1st Round of Local Stakeholder Consultation, hence, the VPA is retroactive.
5	Methodology	Each VPA will comply with the applicability criteria of the applied methodology (TPDDTEC, version 03.1)	The VPA complies with all applicability criteria of TPDDTEC as further outlined in section B.2 of this document.
6	Financial Additionality & Ongoing Financial Needs	Projects (VPAs) to be included under the PoA will be in compliance with item 1.1.3 of Annex B – positive list mentioned in the 'Community Services Activity Requirements' or located in LDC, SIDS, LLDC. A VPA will be solely composed of isolated units (efficient cookstoves) where the users of the technology/measure are household/SMEs/institutions and where each unit	The thermal energy savings per year at a unit level (i.e. per ICS) are clearly below 1,800 MWh as outlined in the ER calculation excel spreadsheet that shall be submitted to VVB during Validation.

	<p>results in <math>\leq 1,800</math> MWh of thermal energy savings per year. Hence, according to paragraph 4.1.9 of the 'Community Services Activity Requirements', a VPA, regardless of the host country in which the project activity is being implemented, is deemed additional and therefore is not required to prove financial additionality at the time of Design Certification; OR a VPA is located in a LDC, SIDS, LLDC.</p>	
<p>7 Stakeholder inclusivity</p>	<p>Local stakeholder consultation is done at VPA level, as described in section F of the PoA-DD. Local stakeholder consultation report must be provided along with VPA-DD. A single Stakeholder consultation can be conducted for a group of VPAs as long as convincing justification is provided.</p>	<p>A local stakeholder consultation for this VPA has been conducted and the LSC report has been submitted to GS. The physical LSC meeting and stakeholder feedback round have been conducted (see LSC report for more details). The Local Stakeholder Consultation would be also valid for any other Voluntary Project Activities (VPAs) implemented in DRC under BURN's Gold Standard PoA 'ECO_A_BURN multi-country Clean Cooking programme', provided that they are homogeneous, i.e. deploy the same stove type(s), target the same end-users and consist of the same project</p>

			boundary as this specific VPA.
8	Conditions related to environmental Impact Analysis	The VPA has to fulfil host country requirements (if any) concerning environmental impact analysis.	No EIA is required by the host country for ICS project activities <sup>24</sup> ..
9	CME Approval	Each VPA has a project implementer that is either the Coordinating/Managing Entity or another entity that has signed a contractual agreement with the CME. Those agreements include all rights and responsibilities of both parties, e.g. approval procedures by the CME, monitoring requirements, carbon credit rights transfer. This eligibility criterion is not relevant if the CME is the VPA implementer.	This eligibility criterion is not relevant for this VPA since the CME is the same entity as the VPA implementer
10	Transfer of carbon credit ownership	The transfer of carbon credit ownership all along the investment chain is clearly described and communicated to all project participants and end-users so that they are aware of to give up their rights on emission reductions. For technology producers and the retailers of the improved	The end-users permanently waive any claim or rights on carbon credits to the VPA implementer (also the CME of the PoA). This is confirmed by strap on ICS box and warranty booklet. Supporting documentation related to strap and warranty booklet shall be submitted to VVB.

<sup>24</sup> See e.g. PoA10053, section E.1,

[https://cdm.unfccc.int/ProgrammeOfActivities/poa\\_db/RSPUDC53EQI206JH084ZVTXBM7AGF1/view](https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/RSPUDC53EQI206JH084ZVTXBM7AGF1/view) (accessed on 10/10/2021)

		technology, this must be communicated by contract or clear written assertions in the transaction paperwork. The end-users will need to be informed and notified that they cannot claim for emission reductions from the project	There is a contractual agreement between distributors/retailers in which distributors/retailers waive any claim or rights on carbon credits to the VPA implementer (also CME of the PoA). A sample agreement shall be submitted to VVB.
11	Conditions to provide an affirmation that funding from Annex I Parties, if any, does not result in a diversion of ODA	In case that any of the VPA receives ODA, it is ensured that there is no diversion of ODA, i.e. that no ODA is provided under the condition that all or part of the carbon credits have to be returned to the donor country/entity providing ODA.	The VPA implementer has signed an ODA declaration confirming that there is no diversion of ODA. The same has been submitted to GS
12	Target Group and distribution mechanism	The VPA serves households, institutions or SMEs either in urban, peri-urban and/or rural areas, and distributes the cook stoves through adequate distribution channels.	This VPA targets households in urban and peri urban areas across 16 provinces of DRC. ICS are distributed through direct sale/distribution and/or a variety of retail outlets across the 16 provinces to end-users.
13	Conditions related to sampling requirements for the PoA	The VPA complies with the sampling plan as outlined in the PoA-DD, section B.3 and VPA-DD, section B.7.2	The VPA-DD outlines the sampling plan in section B.7.2 which is in line with the one stipulated in the PoA-DD. The VPA will make part of a single sampling covering a group of VPAs, as soon as there are other homogenous VPAs. In case of a grouped sampling approach, the CDM Project Standard for PoAs will be followed.

14	Double counting of emission reductions	Each VPA will implement a unique identification system for every efficient cooking unit distributed to avoid double counting of emission reductions.	The unique identification system is explained in detail in section A.3. of this document. The VPA is in adherence to the CME Management System as outlined in Section C of the PoA-DD.
15	Crediting Period	The duration of the crediting period of the VPA does not exceed the end date of the registered PoA or shall be capped by the end date of the PoA. The final date for which ERs can be credited shall be no later than 20 years after the start date of the PoA.	The VPA will have a crediting period of 5 years which can be renewed twice, i.e. in total a maximum issuance of 15 years. The VPA will not exceed the end date of the registered PoA.

## 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 below.

SOCIAL SAFEGUARDING PRINCIPLES		
Reference requirement	Question	Response
<b>ERROR! REFERENCE SOURCE NOT FOUND.P.1</b>		<b>ERROR! REFERENCE SOURCE NOT FOUND.</b>
<b>HUMAN RIGHTS</b>		
<b>ERROR! REFERENCE SOURCE NOT FOUND.P.1.1.1</b>	Does the project developer, its representatives and the Project disrespect internationally proclaimed human rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>ERROR! REFERENCE SOURCE NOT FOUND.P.1.1.1</b>	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
<b>ERROR! REFERENCE SOURCE NOT FOUND.P.1.1.2</b>	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
<b>ERROR! REFERENCE SOURCE NOT FOUND.P.1.1.3</b>	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><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.1.</b> <b>1.3</b></p>	<p>Does this project undermine national or regional measures for the realisation of the right to development?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.1.</b> <b>1.1</b></p>	<p>adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalised groups?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.1.</b> <b>1.2</b></p>	<p>inequitable or discriminatory impacts on affected populations, particularly people living in poverty or marginalised or excluded individuals or groups, including persons with disabilities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.1.</b> <b>1.3</b></p>	<p>restrictions in availability, quality of and/or access to resources or basic services, in particular to marginalised individuals or groups, including persons with disabilities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.1.</b> <b>1.3</b></p>	<p>exacerbation of conflicts among and/or the risk of violence to project-affected communities and individuals?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

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.

1. The project is implemented on the ground by ECOA Climate Capital in collaboration with local distribution partners. The project developer takes care that the project respect internationally proclaimed human rights and is no complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights. The Republic of Ghana has ratified many UN Human Rights Conventions<sup>25</sup>.
2. The project will not discriminate with regards to participation and inclusion as the improved cookstoves (ICS) can be purchased and used by everybody within the project boundary willing to participate in the program.

**ERROR! REFERENCE SOURCE NOT FOUND.P.2 | ERROR! REFERENCE SOURCE NOT FOUND.GENDER EQUALITY AND WOMEN’S EMPOWERMENT**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2:</b> <b>1.1  </b></p>	<p>Have women’s groups/leaders raised gender equality concerns regarding the project, (e.g., during the stakeholder engagement process, grievance processes, public statements)?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2:</b> <b>1.2  </b></p>	<p>Does the project undermine the principles of non-discrimination, equal treatment, and equal pay for equal work?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

<sup>25</sup> <http://hrlibrary.umn.edu/research/ratification-ghana.html>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2.</b> <b>1.2</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2.</b> <b>1.2</b></p>	<p>Does the project limit the participation of women or men based on pregnancy, maternity/paternity leave, or marital status?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2.</b> <b>1.2</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2.</b> <b>1.3</b></p>	<p>Has the project assessed gender risks without referencing the country's gender strategy or equivalent national commitment?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.2.</b> <b>1.4</b></p>	<p>Has expert stakeholder(s) been involved, and has their input been requested for the project design on gender equality and women's empowerment?</p>	<p><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.

N/A

Would the project potentially involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b></p>	<p>adverse impacts on gender equality and/or the situation of women and girls?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY</p>
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<p><b>SOURCE NOT FOUND.P.2.1.1</b></p>		<p><input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.2.1.1</b></p>	<p>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.</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.2.1.2</b></p>	<p>reproducing discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.2.1.2</b></p>	<p>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.</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>

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

The Project is in line with Ghana’s constitution.  
 Ghana has ratified the principle of equality and Non-Discrimination into its respective constitution, which shall guarantee equal gender rights. Ghana has ratified the principle of equality into its respective constitution, which shall guarantee equal gender rights.  
 Article 35 part (5) of the document states “The State shall actively promote the integration of the peoples of Ghana and prohibit discrimination and prejudice on the grounds of place of origin, circumstances of birth, ethnic origin, gender or religion, creed or other beliefs”

**ERROR! REFERENCE SOURCE NOT FOUND.P.3-ERROR! REFERENCE SOURCE NOT FOUND.COMMUNITY HEALTH AND SAFETY**

<p><b>ERROR! REFERENCE SOURCE</b></p>	<p>Does the project involve potential risks to the health and safety of affected communities during its life cycle?</p>	<p><input type="checkbox"/> YES  <input checked="" type="checkbox"/> NO</p>
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<p><b>NOT FOUND.P.3.1.1</b></p>		
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.2</b></p>	<p>Does the project involve any potential risks to the workers' safety and health?</p>	<p><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.

N/A

Would the project potentially involve or lead to:

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.1</b></p>	<p>construction and/or infrastructure development (e.g., roads, buildings, dams)?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.2</b></p>	<p>air pollution, noise, vibration, traffic, injuries, physical hazards, poor surface water quality due to runoff, erosion, sanitation?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.2</b></p>	<p>harm or losses due to failure of structural elements of the project (e.g., collapse of buildings or infrastructure)?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT</b></p>	<p>risks of water-borne or other vector-borne diseases (e.g., temporary breeding habitats), communicable and noncommunicable diseases, nutritional disorders, mental health?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

<p><b>FOUND.P.3.1.2</b></p>		
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.2</b></p>	<p>transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g., explosives, fuel and other chemicals during construction and operation)?</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.3.1.2</b></p>	<p>adverse impacts on ecosystems and ecosystem services relevant to communities' health (e.g., food, surface water purification, natural buffers from flooding)?</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>

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

The project activity doesn't expose the community to increased health risks and is not adversely affecting the health of workers and the community.

Cooking with improved cookstoves is actually safer than any other open flame stove use or traditional stoves. The workers participating in the project activity are not exposed to unsafe or unhealthy work environments as the sale/distribution of efficient cookstoves or the monitoring activities of the project will not include any hazardous chemicals or other hazardous material.

**ERROR! REFERENCE SOURCE NOT FOUND.P.4** **ERROR! REFERENCE SOURCE NOT FOUND.CULTURAL HERITAGE, INDIGENOUS PEOPLE, DISPLACEMENT AND RESETTLEMENT**

**ERROR! REFERENCE SOURCE NOT FOUND.P.4.1** **ERROR! REFERENCE SOURCE NOT FOUND.Sites of Cultural and Historical Heritage**

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.4.1.1</b></p>	<p>Does the project involve altering, damaging, or removing sites, objects, or structures of significant cultural heritage?</p>	<p><input type="checkbox"/> YES  <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project potentially involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.1</b></p>	<p>activities adjacent to or within a cultural heritage site?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.1</b></p>	<p>significant excavations, demolitions, movement of earth, flooding or other environmental changes?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.1</b></p>	<p>alterations to landscapes and natural features with cultural significance?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.1</b></p>	<p>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)</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.2</b></p>	<p>utilisation of tangible and/or intangible forms (e.g., practices, traditional knowledge) of Cultural Heritage for commercial or other purposes?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

<p><b>FOUND.P.4.</b> <b>1.2</b></p>		
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.3</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.4</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>1.4</b></p>	<p>If answer to question above is "YES", has project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <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.

The project activity doesn't include sites, structures or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture. The Project will introduce efficient cookstoves in urban and peri-urban households in the Republic of Ghana and it does not require alteration, damage or removal of any historical, artistic, traditional, religious or cultural heritage issues.

**ERROR! REFERENCE SOURCE NOT FOUND.P.4.2** | **ERROR! REFERENCE SOURCE NOT FOUND.** *Forced Eviction and Displacement*

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.1</b></p>	<p>Does the project involve any risks related to involuntary relocation of people?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project potentially involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.1+</b></p>	<p>risk of forced evictions or involuntary relocation of people?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.2+</b></p>	<p>temporary or permanent and full or partial physical displacement (including people without legally recognisable claims to land)?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.2+</b></p>	<p>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)?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.2+</b></p>	<p>If answer to question above is "YES" or "POTENTIALLY",</p> <ul style="list-style-type: none"> <li>- has the project developed Resettlement Action Plan or Livelihood Action Plan in consultation and agreement with affected individual, group or community?</li> <li>- has the project integrated Resettlement Action Plan or Livelihood Action Plan into the Project design?</li> </ul>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.3+</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>2.3</b></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
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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.

The project activity will introduce portable improved cookstoves in urban and peri-urban households in Ghana and therefore no physical or economic relocation of people is involved. The use of efficient cookstoves is voluntarily.

**ERROR! REFERENCE SOURCE NOT FOUND.P.4.3** **ERROR! REFERENCE SOURCE NOT FOUND.LAND TENURE AND OTHER RIGHTS**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.1</b></p>	<p>Does the project involve any risks related to identifying and managing legitimate tenure rights that may be affected by the project?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project potentially involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.1</b></p>	<p>impacts on or changes to land tenure arrangements and/or community-based property rights/customary rights to land, territories and/or resources?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.1</b></p>	<p>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.</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.2†</b></p>	<p>Changes in legal arrangements, if yes, are the changes done in line with relevant laws and regulations?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.2†</b></p>	<p>Changes in legal arrangements, if yes, are these changes agree with free, prior and informed consent of the involved stakeholders?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.3†</b></p>	<p>Does some other entity (other than the project developer) hold uncontested land title for the entire Project Boundary?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.4†</b></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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.4†</b></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>3.5†</b></p>	<p>Have project developer in consultation with stakeholders established a functioning mechanism to receive, process, resolve, communicate and record grievances?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <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.

The project doesn't require any change to land tenure arrangements and/or other rights. The project does not involve land-use tenure.

**ERROR! REFERENCE SOURCE NOT FOUND.P.4.4+ERROR! REFERENCE SOURCE NOT FOUND.INDIGENOUS PEOPLES**

<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.4.4.1+</u></b></p>	<p>Does the project involve Indigenous People within the Project area of influence who may be affected directly or indirectly by the Project?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project potentially involve or lead to:

<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.4.4.1+</u></b></p>	<p>affect areas where indigenous peoples are present (including project area of influence)</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.4.4.1+</u></b></p>	<p>affect areas, land and territory claimed by indigenous peoples?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.4.4.1+</u></b></p>	<p>impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE</u></b></p>	<p>If answer to above questions is "YES" or "POTENTIALLY",</p>	<p><input type="checkbox"/> YES</p>

<p><b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.7</b></p>	<ul style="list-style-type: none"> <li>- Is it determined that the proposed project may affect the rights, lands, resources, or territories of indigenous people?</li> <li>- Has an "Indigenous People Plan" (IPP) or "Indigenous People Plan Framework" been elaborated and included in the project documentation?</li> <li>- Was the plan developed in accordance with the effective and meaningful participation of indigenous peoples and in accordance with UNDP Guidelines?</li> </ul>	<p><input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.3</b></p>	<p>risk of forcibly removing indigenous people from their lands and territories?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.4</b></p>	<p>utilisation and/or commercial development of natural resources on lands and territories claimed by indigenous peoples?  Consider, and where appropriate ensure, consistency with the answers under Principle 4.1 above</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.5</b></p> <p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.6</b></p>	<p>If answer to question above is "YES" or "POTENTIALLY"</p> <ul style="list-style-type: none"> <li>- Did the project obtain free, prior and informed consent from indigenous people before taking their cultural, intellectual, religious, and/or spiritual property?</li> <li>- Does the project ensure that the indigenous people receive an equitable sharing of benefits resulting from the use of their traditional knowledge and practices? ?</li> <li>- Does the project ensure that the sharing of benefits resulting from the use of indigenous peoples'</li> </ul>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

	<p>traditional knowledge and practices is culturally appropriate and inclusive?</p> <ul style="list-style-type: none"> <li>- 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?</li> </ul>	
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.8</b></p>	<p>Does the project lack appropriate feedback and grievance channels for Indigenous Peoples and their representatives?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.8</b></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.9</b></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.4.</b> <b>4.9</b></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 <input type="checkbox"/> NO <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.

N/A

**ERROR! REFERENCE SOURCE NOT FOUND.P.5+ERROR! REFERENCE SOURCE NOT FOUND.CORRUPTION**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.5.</b> <b>1.1+</b></p>	<p>Does the project involve, or is it complicit in, contributing to or reinforcing corruption or corrupt projects?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.5.</b> <b>1.1+</b></p>	<p>Does the project have a risk of encouraging bribery, kickbacks, or other unethical behavior?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

**ECONOMIC SAFEGUARDING PRINCIPLES**

**ERROR! REFERENCE SOURCE NOT FOUND.P.6+ERROR! REFERENCE SOURCE NOT FOUND.ECONOMIC IMPACTS**

**ERROR! REFERENCE SOURCE NOT FOUND.P.6.1+ERROR! REFERENCE SOURCE NOT FOUND.LABOUR RIGHTS AND WORKING CONDITIONS**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.1+</b></p>	<p>Does the project involve, facilitate, or condone forced labor, or pose a potential risk of forced labor?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.1+</b></p>	<p>Does the project violate any labor or health and safety laws, international obligations, or ILO conventions?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b></p>	<p>Does the project violate the principles of equal opportunity and fair treatment in its employment decisions?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

<p><b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.2</b></p>		
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.3</b></p>	<p>Does the project violate national laws, if available regarding non-discrimination in employment?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.4</b> <b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.5</b></p>	<p>Does the project allow child labor?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.7</b> <b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.8</b></p>	<p>Does the project have insufficient processes and measures in place to ensure the safety and health of project workers?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b></p>	<p>Does the project have insufficient measures to safeguard and support vulnerable project workers, such as women,</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

<p><b>SOURCE NOT FOUND.P.6.1.9</b></p>	<p>people with disabilities, migrant workers, and young workers, and to prevent any kind of harassment, abuse, bullying, or exploitation, including gender-based violence (GBV)?</p>	
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.10</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

Would the project potentially involve or lead to:

(NOTE: APPLIES TO BOTH PROJECT AND CONTRACTOR WORKERS)

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.1</b></p>	<p>use of forced labour?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.1</b></p>	<p>working conditions that do not meet national labour laws and international commitments?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.1</b></p>	<p>working conditions that may deny freedom of association and collective bargaining?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT</b></p>	<p>absence of documented working agreements with all individual workers</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

<p><b><u>FOUND.P.6.1.1</u></b></p>	<p><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></p>	
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.1</u></b></p>	<p>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></p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.1</u></b></p>	<p>having no arrangements for basic services<sup>26</sup> 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></p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.2</u></b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR! REFERENCE SOURCE NOT FOUND.P.6.1.2</u></b></p>	<p>any form of discrimination in any aspect of employment, such as recruitment, compensation, working conditions, training, job assignment, promotion, termination, or discipline?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

<sup>26</sup> 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.

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.2†</b></p>	<p>harassment, intimidation, and/or exploitation, especially in regard to women?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.3†</b></p>	<p>discriminatory working conditions and/or lack of equal opportunity where national law provides provision to address non-discrimination in employment?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.4†</b></p>	<p>use of child labour? (including third-party engaged workers)</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.4†</b></p>	<p>inadequate and verifiable mechanisms for age verification?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.7†</b></p>	<p>no processes and measures in place for the safety and health of project workers?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.7†</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.7</b></p>	<p>No provision to record and document accidents, diseases, incidents, and any resulting injuries, illnesses, or deaths?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.8</b></p>	<p>occupational health and safety risks due to physical, chemical, biological and psychosocial hazards (including violence and harassment) throughout the project life-cycle?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>1.9</b></p>	<p>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.</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE NOT</b> <b>FOUND.P.6.1.</b> <b>10</b></p>	<p>No grievance mechanism available for workers to voice workplace concerns.</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE NOT</b> <b>FOUND.P.6.1.</b> <b>11</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</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.

1. The project is implemented on the ground by the enterprise **ECO Climate Capital** in collaboration with other project partners. The employees' rights are a cross-cutting issue and respected in all of the projects of **ECO Climate Capital** and other project partners. Ghana has ratified many ILO Conventions, amongst others convention 100 (Equal Remuneration Convention) and convention 98 (Right to Organise and Collective Bargaining Convention).

All employees will work voluntarily for the project, no forced labour is used and all

employment is in compliance with national laws and consistence with the principles and standards of the ILO conventions. In fact, Ghana has ratified many ILO Conventions, amongst others convention 29 (Forced Labour Convention) and 105 (Abolition of Forced Labour Convention).

2. The workers are able to establish and join labour organizations.
3. The working agreements with the individual workers will be documented and implemented and the minimum requirements stated in section 3.6.1. of GS4GG Safeguarding Principles & Requirements (version 1.2) will be respected whenever applicable.
4. All the possible staff hired has a minimum age of 18. Ghana has ratified ILO Convention 182 (Worst Forms of Child Labour Convention).
5. All the works will be made by using appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures

**ERROR! REFERENCE SOURCE NOT FOUND.P.6.2+ERROR! REFERENCE SOURCE NOT FOUND.NEGATIVE ECONOMIC CONSEQUENCES**

<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.6.</u></b> <b><u>2.1+</u></b></p>	<p>Is there a risk of project failure during implementation or after project certification due to a lack of financial resources?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.6.</u></b> <b><u>2.2+</u></b></p>	<p>Does the project have potential negative impacts or pose a risk to the local economy?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.6.</u></b> <b><u>2.2+</u></b></p>	<p>Are there any potential risks or negative impacts this project may have on vulnerable or marginalised social groups, despite the benefits it may bring?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

**Would the project involve or lead to:**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>2.2</b></p>	<p>economic impacts (negative/detrimental) to the local economy?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.6.</b> <b>2.2</b></p>	<p>negative economic consequences during and after project implementation, e.g., for vulnerable and marginalised social groups in targeted communities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</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.

The project is based on a commercial model selling improved cookstoves in order to ensure the economic durability of the project. Carbon revenues are amongst others used for sensitizing end-users and awareness raising, fortify the distribution/supply chain and upscale the project.

Improved cookstoves can be purchased and used by everybody within the project boundary willing to participate in the program.

There are not expected any direct economic impact or potential risks to the local economy.

**ERROR! REFERENCE SOURCE NOT FOUND.P.7** **ERROR! REFERENCE SOURCE NOT FOUND.CLIMATE AND ENERGY**

**ERROR! REFERENCE SOURCE NOT FOUND.P.7.1** **ERROR! REFERENCE SOURCE NOT FOUND.GHG EMISSIONS**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.7.</b> <b>1.1</b></p>	<p>Does the project have a risk of increasing greenhouse gas emissions over the Baseline Scenario?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.7.</b> <b>1.1</b></p>	<p>increase greenhouse gas emissions over the Baseline Scenario?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
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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.

The project will reduce the GHG emissions as it will be monitored and verified in line with the GS4GG.

**ERROR! REFERENCE SOURCE NOT FOUND.P.7.2** | **ERROR! REFERENCE SOURCE NOT FOUND.ENERGY SUPPLY**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.7.</b> <b>2.1</b></p>	<p>Does the project pose a risk to the availability and reliability of energy supply to other users?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.7.</b> <b>2.1</b></p>	<p>negative impact on the availability and reliability of energy supply to other users?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
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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.

The project does not use energy from a local grid or power supply. Biomass use (charcoal) will be significantly reduced by introducing highly efficient charcoal stoves.

**ERROR! REFERENCE SOURCE NOT FOUND.P.8+ERROR! REFERENCE SOURCE NOT FOUND.WATER**

**ERROR! REFERENCE SOURCE NOT FOUND.P.8.1+ERROR! REFERENCE SOURCE NOT FOUND.IMPACT ON NATURAL WATER PATTERNS/FLOWS**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>1.1+</b></p>	<p>Does the project increase water usage to a level that will not allow for the maintenance of environmental flows?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>1.1+</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>1.1+</b></p>	<p>Does the project have the potential risk to exceed the rate of recharge for the groundwater source?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>1.1+</b></p>	<p>Does the project involve any processes or activities that could contaminate the groundwater and render it unsuitable for use?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
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<p><b>FOUND.P.8.1.1</b></p>		
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.8.1.1</b></p>	<p>Wastewater discharge of quality that does not meet the required standard for beneficial reuse?</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.8.1.1</b></p>	<p>significant extraction, diversion of ground water? For example, construction of dams, reservoirs, river basin developments, groundwater extraction</p>	<p><input type="checkbox"/> YES  <input type="checkbox"/> POTENTIALLY  <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.8.1.2</b></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  <input type="checkbox"/> NO  <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.

The project activity will not negatively affect natural or pre- existing pattern of watercourses, ground- water and/or watersheds

**ERROR! REFERENCE SOURCE NOT FOUND.P.8.2** **ERROR! REFERENCE SOURCE NOT FOUND.EROSION AND/OR WATER BODY INSTABILITY**

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.8.2.1</b></p>	<p>Does the project have a risk of negatively impacting the catchment and has it been assessed and addressed?</p>	<p><input type="checkbox"/> YES  <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>2.2</b> - <b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>2.5</b></p>	<p>negatively impact on the catchment area?</p> <p><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></p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.8.</b> <b>2.6</b></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 <input type="checkbox"/> NO <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.

The project will not cause additional erosion and/or water body instability of or disrupt the natural pattern of erosion.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9** | **ERROR! REFERENCE SOURCE NOT FOUND.** **ENVIRONMENT, ECOLOGY AND LAND USE**

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.1** | **ERROR! REFERENCE SOURCE NOT FOUND.** **LANDSCAPE MODIFICATION AND SOIL**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>1.1</b> -</p>	<p>Is there any risk of soil resource degradation or loss of ecosystem services provided by soils in the project?</p> <p><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</i></p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>1.3</b></p>	<p><i>crop rotation, composting, using N-fixing plants, and reducing tillage and ecologically harmful substances.</i></p>	
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>1.4</b></p>	<p>production, harvesting, and/or management of living natural resources by small-scale landholders and/or local communities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
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<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>1.4</b></p>	<p>if answer to above question "yes" or "potentially", does project adopt appropriate and culturally sensitive sustainable resource management practices?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
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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.

The Project itself does not involve the use of land and soil for production of crops or other products.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.2** **ERROR! REFERENCE SOURCE NOT FOUND.VULNERABILITY TO NATURAL DISASTER**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>2.1</b></p>	<p>Does the project have any risks associated with natural or man-made hazards that could result from land use changes due to the project?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>2.2.1</b></p>	<p>any potential risks that require emergency preparedness and response planning?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>2.2.1</b></p>	<p>if answer to above question "yes" or "potentially", did the project developer disclose appropriate information about emergency preparedness and response to affected communities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <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.

The Project will not be susceptible to or will lead to increased vulnerability to any extreme climatic conditions.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.3.1**  
**ERROR! REFERENCE SOURCE NOT FOUND.BIOSAFETY AND GENETIC RESOURCES**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>3.1.1</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

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

The Project is not negatively impacted by the use of genetically modified organisms or GMOs.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.4** **ERROR! REFERENCE SOURCE NOT FOUND.RELEASE OF POLLUTANTS**

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.P.9.4.1</b></p>	<p>Does the project have a risk of releasing pollutants to air, water, and land in routine, non-routine, or accidental circumstances?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>4.1</b></p>	<p>any potential risk of pollutant release that cannot be avoided?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> POTENTIALLY <input type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>4.3</b></p>	<p>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?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>4.2</b></p>	<p>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?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>4.3</b></p>	<p>If answer to above question is "Yes", is there a monitoring plan to ensure that mitigation measures are implemented, and resources are protected?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input 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.

The Project does not release any different pollutants to the environment which would not be released in the baseline already. The release of PM and carbon monoxide are significantly reduced by the introduction of efficient cookstoves.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.5**  
**ERROR! REFERENCE SOURCE NOT FOUND.HAZARDOUS AND NON HAZARDOUS WASTE**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b></p>	<p>Does the project involve the generation of waste materials (both hazardous and non-hazardous)?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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<p><b>FOUND.P.9:</b> <b>5.1</b></p>		
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>5.3</b></p>	<p>Does the project involve risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>5.5</b></p>	<p>Does the project involve the use of any chemicals or materials subject to international bans or phase-outs?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>5.1</b></p>	<p>the generation and management of waste materials?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>5.1</b></p>	<p>treatment, destruction, or disposal of waste material?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>5.1</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>5.3</b></p>	<p>risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>5.3</b></p>	<p>If answer to above question is "yes", does project has measures in place to address health risks?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>5.4</b></p>	<p>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</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</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.

The Project is not involving the manufacture, trade, release, and/or use of hazardous chemicals and or materials.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.6** **ERROR! REFERENCE SOURCE NOT FOUND.PESTICIDES & FERTILISERS**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.1</b></p>	<p>Does the project involve the use of chemical pesticides?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.5</b></p>	<p>Does the project involve purchase, store, manufacture, trade or use products that fall in Classes IA (extremely hazardous) and IB (highly hazardous)</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.6</b></p>	<p>Does the project use fertilisers, and if so, are measures being taken to minimise their use and nutrient losses to the environment?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
---	--	--

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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.1</b></p>	<p>chemical pesticides use for pest management?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.4</b></p>	<p>If answer to question above is "yes" or "potentially", does project has documented Chemical Pesticides Policy in place?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.5</b></p>	<p>purchase, store, use, manufacture, or trade in Class II (moderately hazardous) pesticides?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>6.5</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <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.

No application of pesticides and/or fertilisers is done in the project activity

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.7+ERROR! REFERENCE SOURCE NOT FOUND.HARVESTING OF FORESTS**

<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.9.</u></b> <b><u>7.1+</u></b></p>	<p>Does the project have a risk of unsustainable forest management, including timber harvesting?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.9.</u></b> <b><u>7.1+</u></b></p>	<p>Does the project pose a risk of depleting biodiversity and ecosystem functionality in areas where improved forest management is undertaken?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.9.</u></b> <b><u>7.1+</u></b></p>	<p>Does the project risk not meeting requirements for environment-friendly, socially beneficial, and economically viable plantations using native species whenever possible?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

No harvesting of forests is involved.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.8+ERROR! REFERENCE SOURCE NOT FOUND.FOOD SECURITY**

<p><b><u>ERROR!</u></b> <b><u>REFERENCE</u></b> <b><u>SOURCE</u></b> <b><u>NOT</u></b> <b><u>FOUND.P.9.</u></b> <b><u>8.1+</u></b></p>	<p>Does the project involve the risk of negatively influencing access to and availability of food for people affected?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
--	--	--

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

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>8.1</b></p>	<p>modification of the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
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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.

The Project doesn't modify the quantity or nutritional quality of food available.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.9** **ERROR! REFERENCE SOURCE NOT FOUND.ANIMAL WELFARE**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.1</b></p>	<p>Does the project involve any risks to animal welfare?</p> <p>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>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.2</b></p>	<p>Does the project involve any potential risk of excessive or inadequate use of veterinary medicines?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.4</b></p>	<p>Does the project involve the risk of administering synthetic growth promoters, including hormones?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.1†</b></p>	<p>animal husbandry or harvesting of fish populations or other aquatic species?<sup>27</sup></p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.1†</b></p>	<p>limiting access for animals to basic needs like drinking water, adequate food, daylight, appropriate shelter etc.?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.3†</b></p>	<p>inadequate measures to isolate sick animals and control the spread of disease, especially zoonotic diseases?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.5†</b></p>	<p>inadequate low-stress methods, equipment, and facilities that facilitate calm animal movement.</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>9.6†</b></p>	<p>inadequate measures to ensure that animals are exposed to the least stress possible during transportation and slaughtering?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b></p>	<p>inappropriate spacing per animal and stocking rates per land unit?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>

<sup>27</sup> 'Involve' means if the project mechanism and/or impact(s) are achieved via changing animal husbandry practices in some way.

<p><b>SOURCE NOT FOUND.</b> <b>P.9.9.9.7</b></p>		<input checked="" type="checkbox"/> NA
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.</b> <b>P.9.9.9.8</b></p>	<p>inadequate measures to address the specific needs of aquatic animals?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<p><b>ERROR! REFERENCE SOURCE NOT FOUND.</b> <b>P.9.9.9.9.10</b></p>	<p>primary production of living natural resources such as animal husbandry, aquaculture, and fisheries?</p> <p>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.</p>	<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.

The Project doesn't involve animal husbandry.

**ERROR! REFERENCE SOURCE NOT FOUND.**  
**P.9.10.1**  
**ERROR! REFERENCE SOURCE NOT FOUND.**  
**HIGH CONSERVATION VALUE AREAS AND CRITICAL HABITATS**

<p><b>ERROR! REFERENCE SOURCE NOT FOUND.</b> <b>P.9.10.1</b></p>	<p>Does the project have the risk of negatively impacting HCV areas and/or critical habitats?</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p><b>ERROR! REFERENCE</b></p>	<p>Does the project in the project area or area of downstream impacts have risks to the following: native tree patches,</p>	<input type="checkbox"/> YES

<p><b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>10.2+</b></p>	<p>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?</p>	<p><input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>10.1+</b></p>	<p>identified habitats as HCV areas and or Critical habitats?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>10.1+</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>10.1+</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>10.2+</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b></p>	<p>If the answer to the above question is "yes", will the project have any adverse effects on these areas?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input type="checkbox"/> NA</p>

<p><del>FOUND.P.9.10.2</del></p>		
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <del>FOUND.P.9.10.3</del></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <del>FOUND.P.9.10.4</del></p>	<p>Is the project applying Land Use &amp; 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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <del>FOUND.P.9.10.5</del></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

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.

The project is not located in an area within a high conservation value area or within critical natural habitats.  
Furthermore, the aim of the project is to reduce biomass consumed in the project area for cooking which may save the natural resources.

~~ERROR! REFERENCE SOURCE NOT FOUND.P.9.11~~ **ERROR! REFERENCE SOURCE NOT FOUND.ENDANGERED SPECIES**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <del>FOUND.P.9.11.1</del></p>	<p>Does the project lead to the reduction or negative impact on any recognised Endangered, Vulnerable or Critically Endangered species?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>11.2</b></p>	<p>distortion of habitats of endangered species?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NA</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>11.2</b></p>	<p>If answer to the above question is "yes", does the project plan to protect and enhance them?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>11.2</b></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 <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>

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.

- a) The project boundary is the physical, geographical sites of the distributed cookstoves. There are no endangered species identified as potentially being present the project boundary.
- b) The distributed cookstoves are not expected to potentially impact other areas where endangered species may be present through transboundary affects.

**ERROR! REFERENCE SOURCE NOT FOUND.P.9.12** **ERROR! REFERENCE SOURCE NOT FOUND.INVASIVE ALIEN SPECIES**

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9:</b> <b>12.1</b></p>	<p>Does project introduce any alien species (not currently established in the country or region of the project) into new environments?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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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.

N/A

Would the project involve or lead to:

<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>12.1†</b></p>	<p>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?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>12.1†</b></p>	<p>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.</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><b>ERROR!</b> <b>REFERENCE</b> <b>SOURCE</b> <b>NOT</b> <b>FOUND.P.9.</b> <b>12.2†</b></p>	<p>risk of spreading alien species into areas in which they have not already been established?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

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.

The project does not introduce any alien species

## APPENDIX 2- CONTACT INFORMATION OF VPA IMPLEMENTER

Organization name	BURN Manufacturing Co.
Registration number with relevant authority	Business ID: 603-137-240
Street/P.O. Box	18850 103rd Avenue
Building	Suite 220
City	Vashon
State/Region	Washington
Postcode	98070
Country	United States
Telephone	+254 718 125 639
E-mail	<a href="mailto:peter.scott@burnmfg.com">peter.scott@burnmfg.com</a>
Website	<a href="https://burnstoves.com">https://burnstoves.com</a>
Contact person	Peter Scott
Title	-
Salutation	Mr.
Last name	Scott
Middle name	-
First name	Peter
Department	CEO
Mobile	
Direct tel.	
Personal e-mail	

## APPENDIX 3- LUF ADDITIONAL INFORMATION

Risk of change to the Project Area during Project Certification Period:	Left intentionally blank
Risk of change to the Project activities during Project Certification Period:	Left intentionally blank
Land-use history and current status of Project Area:	Left intentionally blank
Socio-Economic history:	Left intentionally blank
Forest management applied (past and future)	Left intentionally blank
Forest characteristics (including main tree species planted)	Left intentionally blank
Main social impacts (risks and benefits)	Left intentionally blank
Main environmental impacts (risks and benefits)	Left intentionally blank
Financial structure	Left intentionally blank
Infrastructure (roads/houses etc):	Left intentionally blank
Water bodies:	Left intentionally blank
Sites with special significance for indigenous people and local communities - resulting from the Stakeholder Consultation:	Left intentionally blank
Where indigenous people and local communities are situated:	Left intentionally blank
Where indigenous people and local communities have legal rights, customary rights or sites with special cultural, ecological, economic, religious or spiritual significance:	Left intentionally blank

## APPENDIX 4 - DESIGN CHANGES

### A4.1. Details of proposed or actual design change

>> The number of project Sustainable Development Contributions has been increased from the current five (5) SDG goals (SDGs 1, 3,7, 8 & 13) to a total of 8 goals with addition of SDGs 4,5, & 15. Appropriate target indicators, methodological choices and monitoring approaches have been included in the updated VPA DD.

### A4.2. Describe the Impacts of Design Change on the following

#### a. Additionality

>> There is no impact on the additionality as the project continues to be deemed additional pursuant to the Community Services Activity Requirements, as per which "Project activities solely composed of isolated units where the users of the technology/measure are households or communities or institutions and where each unit results in  $\leq 600$  MWh of energy savings per year" are deemed additional<sup>28</sup>.

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

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

>There is no impact on any applicability of the methodology or other methodological regulatory documents

#### c. Compliance with the monitoring plan of the applied methodology

>> The proposed change impacts the monitoring plan as stated in the current version of the VPA DD however is in compliance with the methodology TPDDTEC v3.1. The PP has added 3 more SDGs to the project namely:

- Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
- Goal 5. Achieve gender equality and empower all women and girls

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<sup>28</sup> <https://globalgoals.goldstandard.org/201-ar-community-services-activity-requirements/>

- *Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.*

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

>> *No changes to the level of accuracy or completeness*

**e. Scale of the project activity**

>> *No change and the project remains large scale*

**f. Stakeholder consultation**

>> *Since the proposed design change is on ex-ante monitored parameters, there is no bearing on stakeholders*

**g. Sustainable development criteria**

>> *PP has added 3 more SDGs to the project namely:*

- *Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all*
- *Goal 5. Achieve gender equality and empower all women and girls*
- *Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss*

**h. Safeguarding Assessment**

>> *There is no change to the Safeguarding Assessment*

**i. Compliance with applicable legislation**

>> *There is no change to compliance with legislation*

## Revision History

Version	Date	Remarks
2.0	4 May 2022	
1.1	7 October 2020	<p>Hyperlinked section summary to enable quick access to key sections</p> <p>Improved clarity on Key Project Information</p> <p>Inclusion criteria table added</p> <p>Gender sensitive requirements added</p> <p>Prior consideration (1 yr rule) and Ongoing Financial Need added</p> <p>Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity</p> <p>Improved Clarity on SDG contribution/SDG Impact term used throughout</p> <p>Clarity on Stakeholder Consultation information required</p> <p>Provision of an <a href="#">accompanying Guide</a> to help the user understand detailed rules and requirements</p>
1.0	10 July 2017	Initial adoption