

Gold Standard for the Global Goals
Transition Annex

*(To be used by all GS CDM/VER stand alone projects and PoAs,
Micro Scale stand alone projects and Micro PoAs)*



Version 1 – September 2017

KEY PROJECT INFORMATION

<p>Title of Project/PoA/Activity:</p>	<p>PoA: The Breathing Space Improved Cooking Stoves Programme, India</p> <p>VPA No. 01: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 01 Envirofit</p> <p>VPA No. 02: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 02 Envirofit</p> <p>VPA No. 03: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 03 Envirofit</p> <p>VPA No. 04: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 04 Envirofit</p> <p>VPA No. 05: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 05 Envirofit</p> <p>VPA No. 06: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 06 Envirofit</p> <p>VPA No. 07: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 07 Envirofit</p> <p>VPA No. 08: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 08 Envirofit</p> <p>VPA No. 09: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 09 Envirofit</p> <p>VPA No. 10: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 10 Envirofit</p> <p>VPA No. 11: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 11 Envirofit</p> <p>VPA No. 12: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 12 Envirofit</p> <p>VPA No. 13: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 13 Envirofit</p> <p>VPA No. 14: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 14 Envirofit</p> <p>VPA No. 15: The Breathing Space Improved Cooking Stoves Programme, India – VPA No. 15 Envirofit</p>
<p>GS ID of the project/PoA/activity:</p>	<p>PoA: GS 916</p> <p>VPA No. 01: GS 1231</p>

	<p>VPA No. 02: GS 1029 VPA No. 03: GS 1030 VPA No. 04: GS 1031 VPA No. 05: GS 3363 VPA No. 06: GS 3364 VPA No. 07: GS 3365 VPA No. 08: GS 3366 VPA No. 09: GS 3367 VPA No. 10: GS 4291 VPA No. 11: GS 5046 VPA No. 12: GS 5417 VPA No. 13: GS 5418 VPA No. 14: GS 5680 VPA No. 15: GS 6110</p>								
GS Version:	GS Version 2.1 VER								
Brief description of Project:	<p>The programme is a voluntary initiative taken by Envirofit International, a social enterprise, involving dissemination of improved efficiency cook-stoves (ICS) to domestic households in India. Envirofit is the coordinating/ managing entity (CME) for the programme.</p> <p>Usage of non-renewable biomass in traditional inefficient cookstoves, commonly referred as chulhas, results in decrease in carbon stock of the forests and equivalent GHG emissions as the carbon emission released from unsustainable tree cutting cannot be sequestered later. The ICS result in better heat transfer to the cooking pot and aids complete fuel combustion (avoiding smoke, black soot and Particulate matter) as compared to that achieved in traditional cook stoves. This results in a significant reduction in non-renewable biomass consumption and level of indoor air pollution (IAP) in project households. Therefore, ICS reduce greenhouse gas emissions equivalent to the reduced consumption of biomass fuel, by virtue of their higher efficiency compared to traditional/ baseline stoves. In the absence of project activity, the traditional inefficient cook stoves would have been used for cooking – producing substantial GHG emissions due to burning of non-renewable biomass.</p>								
Project type: Energy/Land Use	Energy								
For Renewable Energy Projects – intention to apply RECs Labels (y/n)	Not Applicable								
GS Stream (CDM/VER):	VER								
Scale (large/scale/micro):	Small Scale								
GS Registration Date:	<table border="1"> <thead> <tr> <th>GS Ref ID</th> <th>GS Registration Date</th> </tr> </thead> <tbody> <tr> <td>GS 1231 (VPA No. 01)</td> <td>10/07/2012</td> </tr> <tr> <td>GS 1029 (VPA No. 02)</td> <td>10/07/2012</td> </tr> <tr> <td>GS 1030 (VPA No. 03)</td> <td>10/07/2012</td> </tr> </tbody> </table>	GS Ref ID	GS Registration Date	GS 1231 (VPA No. 01)	10/07/2012	GS 1029 (VPA No. 02)	10/07/2012	GS 1030 (VPA No. 03)	10/07/2012
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	GS 1031 (VPA No. 04)	10/07/2012	
	GS 3363 (VPA No. 05)	28/11/2014	
	GS 3364 (VPA No. 06)	28/11/2014	
	GS 3365 (VPA No. 07)	28/11/2014	
	GS 3366 (VPA No. 08)	28/11/2014	
	GS 3367 (VPA No. 09)	28/11/2014	
	GS 4291 (VPA No. 10)	06/08/2017	
	GS 5046 (VPA No. 11)	06/08/2017	
	GS 5417 (VPA No. 12)	06/08/2017	
	GS 5418 (VPA No. 13)	06/08/2017	
	GS 5680 (VPA No. 14)	Not yet registered	
	GS 6110 (VPA No. 15)	Not yet registered	
	GS Crediting period start date:	GS Ref ID	Crediting Period Start Date
		GS 1231 (VPA No. 01)	10/07/2010
GS 1029 (VPA No. 02)		10/07/2010	
GS 1030 (VPA No. 03)		10/07/2010	
GS 1031 (VPA No. 04)		10/07/2010	
GS 3363 (VPA No. 05)		28/11/2012	
GS 3364 (VPA No. 06)		28/11/2012	
GS 3365 (VPA No. 07)		28/11/2012	
GS 3366 (VPA No. 08)		17/03/2013	
GS 3367 (VPA No. 09)		30/09/2013	
GS 4291 (VPA No. 10)		16/08/2015	
GS 5046 (VPA No. 11)		22/09/2015	
GS 5417 (VPA No. 12)		30/08/2016	
GS 5418 (VPA No. 13)		01/02/2017	
GS 5680 (VPA No. 14)		Not yet registered	
GS 6110 (VPA No. 15)	Not yet registered		
CDM Registration Date:	Not Applicable		
CDM Crediting period start date:	Not Applicable		
Project Developer:	Envirofit International Ltd.		
Project Representative:	Envirofit International Ltd.		
Project Participants and any communities involved:	Envirofit International Ltd.		
Host Country/Location:	India		
Methodologies applied:	AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass, version 03		
SDG Impacts:	SDG 1. No Poverty SDG 3. Good Health and Well-Being SDG 7. Affordable and Clean Energy SDG 8. Decent Work and Economic Growth SDG 13. Climate Action		
Estimated amount of SDG Impact (GSVERs and others)	SDG 1 - 398,750 stoves installed, ex-post survey to determine % users reporting money / time saving due to reduced fuel consumption SDG 3 - ex-post survey to determine % users reporting reduction in Smoke / PM emissions due to ICS		

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	SDG 7 - 398,750 stoves installed SDG 8 - ex-post survey to determine number of jobs created SDG 13 - SDG 13: 250,000 tCO ₂ e per annum
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SECTION A Sustainable Development Goals (SDG) outcomes

A.1 Relevant target for each of the three SDGs

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SDG 1: No Poverty

Relevant Target	Indicator
1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance	<p>Relevance: The PoA/VPA by installation and dissemination of improved cook stoves avoids cooking on traditional baseline stoves. Thus, the PoA/VPA results in increased access to basic services (clean cooking), new technology (improved stoves) as well as reduces poverty by reducing purchased fuel consumption.</p> <p>1.4.1 Proportion of population living in households with access to basic services</p>

SDG 3: Good Health and Well Being

Relevant Target	Indicator
3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.	<p>Relevance: The PoA/VPA by installation and dissemination of improved stoves results in reduction in exposure to indoor air pollutants associated with biomass fuel based traditional cooking.</p> <p>3.9.1 Mortality rate attributed to household and ambient air pollution</p>

SDG 7: Affordable and Clean Energy

Relevant Target	Indicator
7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	<p>Relevance: The PoA/VPA involves installation and dissemination of clean technology for cooking.</p> <p>7.1.2 Proportion of population with primary reliance on clean fuels and technology</p>

SDG 8: Decent Work and Economic Growth

Relevant Target	Indicator
8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	<p>Relevance: The PoA/VPA results in generating employment for marketing / sales and distribution / technical employees.</p>

	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities
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SDG 13: Climate Action

Relevant Target	Indicator
13.2 Integrate climate change measures into national policies, strategies and planning	<p>Relevance: The PoA/VPA is directly related to the target as it contributes towards avoidance of GHG emissions from replaced of fossil fuel / non-renewable biomass-based cooking.</p> <p>Amount of CO₂e emissions reduced by the project per year.</p>

A.2 Explanation of methodological choices/approaches for estimating the SDG outcome

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SDG 1: No Poverty

Applied methodology/approach	Equation/calculation
<p>1.4.1 Proportion of population living in households with access to basic services</p> <p>Approach:</p> <ol style="list-style-type: none"> 1. Monitor the number of ICS distributed under the project as an indicator of providing basic service access to households 2. Monitor the money savings due to reduced fuel consumption from using ICS 	<p>1. ICS distribution records</p> <p>Net Benefit (SDG 1) = $BSA_{Project} - BSA_{Baseline}$</p> <p>Where:</p> <p>$BSA_{Baseline}$ Number of ICS distributed in baseline = 0</p> <p>$BSA_{Project}$ Number of ICS distributed in Project = 398,750</p> <p>2. Ex-post Monitoring Survey Records measuring money savings due to reduced fuel consumption in households</p> <p>Net Benefit (SDG 1) = $HHS_{Project} - HHS_{Baseline}$</p> <p>Where:</p> <p>$HHS_{Project}$ % HH reporting time / money saving due to reduced fuel consumption in project</p> <p>$HHS_{Baseline}$ % HH reporting time / money saving due to reduced fuel consumption in baseline = 0</p>

SDG 3: Good Health and Well Being

Applied methodology/approach	Equation/calculation
<p>3.9.1 Mortality rate attributed to household and ambient air pollution</p> <p>Approach: Monitoring Surveys conducted to capture information on users' perception on</p>	<p>Ex-post Monitoring Surveys to check change in health issues like reduction in smoke levels or particulate matter etc.</p> <p>Net Benefit (SDG 3) = $SPM_{HH,Project} - SPM_{HH,Baseline}$</p> <p>Where:</p>

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reduction in health issues after shifting to project ICS	$SPM_{HH,Baseline}$ % HH reporting reduction in smoke/PM emissions while cooking on improved stove in baseline = 0 $SPM_{HH,Project}$ % HH reporting reduction in smoke/PM emissions while cooking on improved stove in project
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SDG 7: Affordable and Clean Energy

Applied methodology/approach	Equation/calculation
7.1.2 Proportion of population with primary reliance on clean fuels and technology Approach: Monitor the number of ICS distributed under the project as an indicator of providing clean technology (relative to baseline stoves).	ICS distribution records $Net\ Benefit\ (SDG\ 7) = ACS_{Project} - ACS_{Baseline}$ Where: $ACS_{Baseline}$ Access to affordable and clean energy (Number of operating ICS units under Baseline) = 0 $ACS_{Project}$ Access to affordable and clean energy (Number of operating ICS units under Project)

SDG 8: Decent Work and Economic Growth

Applied methodology/approach	Equation/calculation
8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities Approach: Recording the number of employees (male / female) in the project under administrative, sales, production and management positions	Employment records $Net\ Benefit\ (SDG\ 8) = QE\ IG_{Project} - QE\ IG_{Baseline}$ Where: $QE\ IG_{Baseline}$ Quantitative Employment and income generation (Number of person (male and female) hired under Baseline) = 0 $QE\ IG_{Project}$ Quantitative Employment and income generation (Number of person (male and female) hired under Project)

SDG 13: Climate Action

Applied methodology/approach	Equation/calculation
13.2.1 Amount of CO ₂ e emissions reduced by the project per year Approach: AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass, version 03	As outlined in the PoA/VPA-DD Equation used for the calculation of emission reductions in line with CDM Methodology AMS II.G. – “Energy efficiency measures in thermal applications of non-renewable biomass”, version 03 $ERY = B_{y,savings} * f_{NRB,y} * NCV_{biomass} * EF_{projected_fossilfuel} * LAF$

Where:

Parameter	Description
ER_y	Emission reductions during the year y in tCO ₂ e
$B_{y,savings}$	Quantity of biomass that is saved in tonnes
$f_{NRB,y}$	Fraction of biomass saved by the project activity in year y that can be established as non-renewable biomass using survey methods
$NCV_{biomass}$	Net calorific value of the non-renewable biomass that is substituted (IPCC default for wood fuel, 0.015 TJ/tonne)
$EF_{projected_fossilfuel}$	Emission factor for the substitution of non-renewable biomass by similar consumers. Use a value of 81.6tCO ₂ /TJ.
LAF	Default Leakage adjustment factor (In line with paragraph 13 and 23 c) of AMS II.G version 03, a gross leakage adjustment factor of 0.95 has been considered in ER calculations to account for leakage)

$B_{y,savings}$ is estimated using option 2 of the methodology AMS-II.G version 3

$$B_{y,savings} = B_{old} \cdot (1 - \eta_{old} / \eta_{new})$$

Where:

Parameter	Description
B_{old}	Quantity of biomass used in the absence of the project activity in tonnes/year
η_{old}	A default value of 0.1 as the replaced system is a conventional system (three stone cook stove)
η_{new}	Efficiency of the system being deployed as part of the project activity (fraction) as determined by using Water Boiling Test

Following option (a) of the methodology, B_{old} is calculated as the product of the number of appliances multiplied by the estimate of average annual consumption of biomass per appliance (tonnes/year) derived from historical data/ survey of local usage.

	$B_{old} = Q_{biomass} * \sum_{i=1}^{N_{all}} (Stove\ year_i) * SOF$	
	Where,	
	Parameter	Description
	B_{old}	Quantity of woody biomass used in the absence of project activity (tonnes)
	N_{all}	Total number of stoves in VPA (number)
	$Q_{biomass}$	Average annual biomass consumption per appliance (tonnes/ year)
SOF	Stove Operation Fraction (% of stoves operating or replaced by equivalent in-service appliance) – measured ex post using survey	
$Stove\ year_i$	Calculated stove operation year for stove i (years)	

A.3 Data and parameters fixed ex ante for monitoring contribution to each of the three SDGs

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	$Q_{biomass}$
Unit	Tonnes/ year
Description	Annual average biomass consumption per appliance
Source of data	Monitoring Surveys
Value(s) applied	1.915
Choice of data or Measurement methods and procedures	Baseline surveys of biomass usage (Controlled cooking test) were performed to determine the average biomass consumption per appliance in the baseline. Further, a conservative assumption of cooking only twice a day has been used for the same.
Purpose of data	Baseline emission calculations.
Additional comment	Used for calculation of B_{old} as per paragraph 7 (a) of methodology

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	$f_{NRB,y}$
Unit	Fraction
Description	Fraction of biomass in year y that can be established as non-renewable
Source of data	Global Forest Resources Assessment 2010, Country Report for India (FAO)
Value(s) applied	90.5 (average value for India. For state specific value refer to the registered PoA-DD section E.4)
Choice of data or Measurement methods and procedures	The value has been derived using the references mentioned above using the formula: $f_{NRB,y} = NRB/(NRB + DRB)$

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Purpose of data	Baseline emission calculations.
Additional comment	-

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	NCV_{biomass}
Unit	TJ/tonne
Description	Net Calorific Value of the non-renewable woody biomass that is substituted
Source of data	AMS – II. G ver 03, page 2
Value(s) applied	0.015
Choice of data or Measurement methods and procedures	Default value as mentioned in the methodology applied
Purpose of data	Baseline emission calculations.
Additional comment	-

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	$EF_{\text{projected_fossil fuel}}$
Unit	tCO ₂ /TJ
Description	Emission factor for the substitution of non-renewable biomass by similar consumers.
Source of data	AMS-II. G version 03, page 2
Value(s) applied	81.6
Choice of data or Measurement methods and procedures	Default value as prescribed by methodology applied
Purpose of data	Baseline emission calculations.
Additional comment	-

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	η_{old}
Unit	Fraction
Description	Efficiency of the system being replaced
Source of data	AMS-II. G version 03
Value(s) applied	0.1
Choice of data or Measurement methods and procedures	The default value taken from the methodology AMS-II.G version 03.
Purpose of data	Baseline emission calculations.

Additional comment	-
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Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	LAF
Unit	Fraction
Description	Leakage Adjustment Factor
Source of data	AMS-II. G version 03
Value(s) applied	0.95
Choice of data or Measurement methods and procedures	Default value as prescribed by methodology applied
Purpose of data	Baseline emission calculations.
Additional comment	-

SECTION B Safeguarding Principles Assessment

B.1 Analysis of social, economic and environmental impacts

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Safeguarding Principle	Assessment Question	Mandatory Requirements if any	Assessment of relevance to the project (Yes/potentially/no)	Justification	Mitigation measure (if required)
3.1 Human Rights	The CME / CPAI and the PoA/VPA shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights	--	No	The PoA/VPA and CME / CPAI both respect human rights and are not complicit in violence or human rights abuses.	Not required
	The PoA/VPA shall not discriminate with regards to participation and inclusion	--	No	The PoA/VPA does not discriminate with regards to participation and inclusion	Not required
3.2 Gender Equality and Women's Rights	The PoA/VPA shall complete the following gender assessment questions in order to inform Requirements 2-4, below	Is there a possibility that the PoA/VPA might reduce or put at risk women's access to or control of resources, entitlements and benefits?	No	The PoA/VPA does not limit women access to or control of resources, entitlements and benefits. On the contrary, the PoA/VPA	Not required

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				ameliorates the living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel.	
		Is there a possibility that the PoA/VPA can adversely affect men and women in marginalised or vulnerable communities (e.g., potential increased burden on women or social isolation of men)?	No	The PoA/VPA does not result in any increased burden on women or social isolations of women.	Not required

		<p>Is there a possibility that the PoA/VPA might not take into account gender roles and the abilities of women or men to participate in the decisions/designs of the project's activities (such as lack of time, child care duties, low literacy or educational levels, or societal discrimination)?</p>	<p>No</p>	<p>The PoA/VPA ameliorates the living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel</p>	<p>Not required</p>
		<p>Does the PoA/VPA take into account gender roles and the abilities of women or men to benefit from the Project's activities (e.g., Does the PoA/VPA criteria ensure that it includes minority groups or landless peoples)?</p>	<p>No</p>	<p>The PoA/VPA does not de-limits its access to minority groups or landless people</p>	<p>Not required</p>

		Does the PoA/VPA design contribute to an increase in women’s workload that adds to their care responsibilities or that prevents them from engaging in other activities?	No	The PoA/VPA ameliorates the living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel	Not required
		Would the PoA/VPA potentially reproduce or further deepen discrimination against women based on gender, for instance, regarding their full participation in design and implementation or access to opportunities and benefits?	No	The PoA/VPA ameliorates the living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing,	Not required

				incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel	
		Would the PoA/VPA potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and priorities of women and men in accessing and managing environmental goods and services?	No	The PoA/VPA ameliorates the living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel	Not required
		Is there a likelihood that the proposed PoA/VPA	No	The PoA/VPA ameliorates the	Not required

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		<p>would expose women and girls to further risks or hazards?</p>		<p>living condition of women by freeing them from the drudgery of fuelwood collection, decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel</p>	
	<p>The PoA/VPA shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women. Specifically, this shall include (not exhaustive)</p>	<p>Sexual harassment and/or any forms of violence against women – address the multiple risks of gender-based violence, including sexual exploitation or human trafficking.</p>	<p>No</p>	<p>Not relevant</p>	<p>Not required</p>
		<p>Slavery, imprisonment, physical and mental drudgery, punishment</p>	<p>No</p>	<p>Not relevant</p>	<p>Not required</p>

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		or coercion of women and girls.			
		Restriction of women's rights or access to resources (natural or economic).	No	Not relevant	Not required
		Recognise women's ownership rights regardless of marital status – adopt project measures where possible to support to women's access to inherit and own land, homes, and other assets or natural resources.	No	Not relevant	Not required
	PoA/VPAs shall apply the principles of non-discrimination, equal treatment, and equal pay for equal work, specifically	Where appropriate for the implementation of a PoA/VPA, paid, volunteer work or community contributions will be organised to provide the conditions for equitable participation of men and women in the identified tasks/activities.	No	Not relevant	Not required

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		Introduce conditions that ensure the participation of women or men in Project activities and benefits based on pregnancy, maternity/paternity leave, or marital status.	No	Not relevant	Not required
		Ensure that these conditions do not limit the access of women or men, as the case may be, to PoA/VPA participation and benefits.	No	Not relevant	Not required
3.3 Community Health, Safety and Working Conditions	The PoA/VPA shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community.	--	Yes	The PoA/VPA reduces exposure to indoor air pollutants decrease in smoke levels, incidence of coughing, incidence of respiratory illness, and incidence of itchy eyes relative to cooking on traditional biomass stoves using solid biomass fuel.	Not required

3.4 Cultural Heritage, Indigenous Peoples, Displacement and Resettlement	3.4.1 Sites of Cultural and Historical Heritage	Does the PoA/VPA Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, or practices)?	No	Not relevant	Not required
	3.4.2 Forced Eviction and Displacement	Does the PoA/VPA require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	No	Not relevant	Not required
	3.4.3 Land Tenure and Other Rights	Does the PoA/VPA require any change to land tenure arrangements and/or other rights?	No	Not relevant	Not required
		For PoA/VPAs involving land-use tenure, are there any uncertainties with regards land tenure, access rights, usage rights or land ownership?	No	Not relevant	Not required

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	3.4.4 Indigenous Peoples	Are indigenous peoples present in or within the area of influence of the PoA/VPA and/or is the PoA/VPA located on land/territory claimed by indigenous peoples?	No	Not relevant	Not required
3.5 Corruption	The PoA/VPA shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects.	--	No	The CME / CPAI does not promote / or is complicit in direct or indirect corruption.	Not required
3.6 Economic Impacts	3.6.1 Labour Rights	The CME / CPAI shall ensure that there is no forced labour and that all employment is in compliance with national labour and occupational health and safety laws, with obligations under international law, and consistency with the principles and standards embodied in the International Labour Organization (ILO) fundamental	No	The PoA/VPA does not involve any forced labour and the PP ensures that all employment is in compliance with local labour regulations and laws.	Not required

		conventions. Where these are contradictory and a breach of one or other cannot be avoided, then guidance shall be sought from Gold Standard.			
		Workers shall be able to establish and join labour organisations.	No	The PP puts no constraints / limitation on employees to form a union.	Not required
		Working agreements with all individual workers shall be documented and implemented. These shall at minimum comprise: (a) Working hours (must not exceed 48 hours per week on a regular basis), AND (b) Duties and tasks, AND (c) Remuneration (must include provision for payment of overtime), AND (d) Modalities on health insurance, AND (e) Modalities on termination of the contract with provision	No	The company's policy is compliant with the requirement	Not required

		for voluntary resignation by employee, AND (f) Provision for annual leave of not less than 10 days per year, not including sick and casual leave.			
		The CME / CPAI shall justify that the employment model applied is locally and culturally appropriate.	No	The CME/CPAI employs staff on full time and part time basis in compliance with local regulations	Not required
		Child labour, as defined by the ILO Minimum Age Convention is not allowed. The CME / CPAI shall use adequate and verifiable mechanisms for age verification in recruitment procedures. Exceptions are children for work on their families' property as long as: (a) Their compulsory schooling (minimum of 6 schooling years) is not hindered, AND (b) The	No	The CME/CPAI does not promotes / or is complicit in child labour	Not required

		tasks they perform do not harm their physical and mental development, AND (c) The opinions and recommendations of an Expert Stakeholder shall be sought and demonstrated as being included in the PoA/VPA design.			
		The CME / CPAI shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.	No	Not relevant	Not required
	3.6.2 Negative Economic Consequences	The CME / CPAI shall demonstrate the financial sustainability of the PoA/VPAs implemented, also including those that will occur beyond the Project Certification period.	No	No negative economic consequences are deemed applicable	Not required

		The PoA/VPA shall consider economic impacts and demonstrate a consideration of potential risks to the local economy and how these have been taken into account in PoA/VPA design, implementation, operation and after the PoA/VPA. Particular focus shall be given to vulnerable and marginalised social 12 groups in targeted communities and that benefits are socially-inclusive and sustainable.	No	No negative economic consequences are deemed applicable	Not required
4.1 Climate and Energy	4.1.1 Emissions	Will the PoA/VPA increase greenhouse gas emissions over the Baseline Scenario?	No	The PoA/VPA reduces GHG emissions relative to baseline scenario	Not required
	4.1.2. Energy Supply	Will the PoA/VPA use energy from a local grid or power supply (i.e., not connected to a national or regional	No	Not applicable	Not required

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		grid) or fuel resource (such as wood, biomass) that provides for other local users?			
4.2 Water	4.2.1 Impact on Natural Water Patterns / Flows	Will the PoA/VPA affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	No	Not applicable	Not required
	4.2.2 Erosion and / or water body instability	Could the PoA/VPA directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?	No	Not applicable	Not required
		Is the PoA/VPA's area of influence susceptible to excessive erosion and/or water body instability?	No	Not applicable	Not required
4.3 Environment, ecology and land use	4.3.1 Landscape modification and soil	Does the PoA/VPA involve the use of land and soil for production	No	Not applicable	Not required

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		of crops or other products?			
	4.3.2 Vulnerability to Natural Disaster	Will the PoA/VPA be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	No	Not applicable	Not required
	4.3.3 Genetic Resources	Could the PoA/VPA be negatively impacted by the use of genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development)?	No	Not applicable	Not required
	4.3.4 Release of pollutants	Could the PoA/VPA potentially result in the release of pollutants to the environment?	No	Not applicable	Not required
	4.3.5 Hazardous and Non-hazardous Waste	Will the PoA/VPA involve the manufacture, trade, release, and/ or use of hazardous and non-	No	Not applicable	Not required

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		hazardous chemicals and/or materials?			
	4.3.6 Pesticides & Fertilisers	Will the PoA/VPA involve the application of pesticides and/or fertilisers?	No	Not applicable	Not required
	4.3.7 Harvesting of Forests	Will the PoA/VPA involve the harvesting of forests?	No	Not applicable	Not required
	4.3.8 Food	Does the PoA/VPA modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	Not applicable	Not required
	4.3.9 Animal husbandry	Will the PoA/VPA involve animal husbandry?	No	Not applicable	Not required
	4.3.10 High Conservation Value Areas and Critical Habitats	Does the PoA/VPA physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No	Not applicable	Not required
	4.3.11 Endangered Species	Are there any endangered species	No	Not applicable	Not required

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		identified as potentially being present within the PoA/VPA boundary (including those that may route through the area)?			
		Does the PoA/VPA potentially impact other areas where endangered species may be present through transboundary affects?	No	Not applicable	Not required

SECTION C Monitoring plan

C.1 Data and parameters to be monitored

Relevant Indicator/Safeguarding Principle	SDG SDG 13: Climate Action
Data / Parameter	η_{new}
Unit	Fraction
Description	Efficiency of the system being deployed as part of the project activity
Source of data	Ex-post Water Boiling Test records
Value(s) applied	30.0% (average of various ICS models covered under the PoA)
Measurement methods and procedures	On site Water Boiling Test will be performed for a sample of installed ICS.
Monitoring frequency	Annually / biennially
QA/QC procedures	The CME/PO conducts Water Boiling Tests with the help of trained personnel. In case where survey results indicate that desired precision is not achieved, the lower bound of confidence interval of the parameter value would be used. All data required for verification and issuance will be backed-up and kept for at least two years after the end of the crediting period or the last issuance of CERs of this project, whichever occurs later.
Purpose of data	SDG 13 Contribution
Additional comment	The sample size to be calculated as per the confidence / precision of 90/10 for annual and 95/5 for biennial monitoring. Ex-post weighted average value to be used in line with Option 2 of paragraph 6 of AMS-II. G version 03

Relevant Indicator/Safeguarding Principle	SDG SDG 13: Climate Action
Data / Parameter	N_{all}
Unit	Number
Description	Total Number of stoves sold
Source of data	Envirofit sales records

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Value(s) applied	GS Ref ID	Total no. of stoves sold
	GS 1231 (VPA No. 01)	30,293
	GS 1029 (VPA No. 02)	30,483
	GS 1030 (VPA No. 03)	18,041
	GS 1031 (VPA No. 04)	16,433
	GS 3363 (VPA No. 05)	16,587
	GS 3364 (VPA No. 06)	21,517
	GS 3365 (VPA No. 07)	33,397
	GS 3366 (VPA No. 08)	34,128
	GS 3367 (VPA No. 09)	36,888
	GS 4291 (VPA No. 10)	43,299
	GS 5046 (VPA No. 11)	43,284
	GS 5417 (VPA No. 12)	37,200
	GS 5418 (VPA No. 13)	37,200
	Total	398,750
Measurement methods and procedures	Sales records containing details of all the cook-stoves sold to bulk purchasers like dealers, distributors, retailers and NGOs within a particular SSC VPA is maintained ¹ . The records will be maintained and updated.	
Monitoring frequency	Continuous	
QA/QC procedures	All data required for verification and issuance will be backed-up and kept for at least two years after the end of the crediting period or the last issuance of CERs of this project, whichever occurs later.	
Purpose of data	SDG 13 Contribution	
Additional comment	-	

Relevant Indicator/Safeguarding Principle	SDG	SDG 13: Climate Action
Data / Parameter		SOF
Unit		Fraction
Description		Stove Operation Fraction - To determine only stoves that are still operating, measured ex-post through survey
Source of data		Survey
Value(s) applied		1.0

¹ A project database with the end user details shall be collected as many as commensurate with representative sampling, i.e. the number of end user names and addresses (and phone numbers where possible) within sales record shall be large enough so that surveys and tests can be based on representative purely randomly selected samples. In all cases this should not be less than 10 times the survey and field test sample sizes (including usage surveys for each age of product), in order to ensure an adequate end user pool to which random sampling can be applied.

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Measurement methods and procedures	The CME conducts survey with expert assistance. This is measured by investigation of the number of ICS installations within the samples which are operational. If for example 90% of the sampled ICS is found to be operational, then SOF is 90% for corresponding population
Monitoring frequency	Annually / biennially
QA/QC procedures	A sample survey shall be conducted for the same with the help of trained personnel. In case where survey results indicate that desired precision is not achieved, the lower bound of confidence interval of the parameter value would be used. All data required for verification and issuance will be backed-up and kept for at least two years after the end of the crediting period or the last issuance of CERs of this project, whichever occurs later.
Purpose of data	SDG 13 Contribution
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	SDG 13: Climate Action
Data / Parameter	$D_{\text{traditional_stove}}$
Unit	Fraction
Description	Disposal/Discontinuation of traditional cookstove
Source of data	Ex-post monitoring survey
Value(s) applied	1.0
Measurement methods and procedures	The sampled ICS households shall be cross checked for disposal / discontinuation of traditional cook-stove. In case it is observed that the traditional cook-stove are not disposed/ discontinued and are still in use, the fuel-wood consumption of those traditional stoves shall be excluded from Q_{biomass} accordingly as per its weightage in the sample.
Monitoring frequency	Annually / biennially
QA/QC procedures	-
Purpose of data	SDG 13 Contribution
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	3.9.1 Mortality rate attributed to household and ambient air pollution
Data / Parameter	SPM_{HH}
Unit	%
Description	Reduction in Smoke / PM emissions
Source of data	Ex-post monitoring surveys
Value(s) applied	-

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Measurement methods and procedures	Through ex-post questionnaire-based monitoring surveys of a sample of ICS population for qualitative assessment (fraction of sampled users reporting reduction in smoke or PM) as an indicator of reduction in mortality rate attributed to household and ambient air pollution due to inefficient solid biomass fuel-based cooking
Monitoring frequency	Annually / biennially
QA/QC procedures	-
Purpose of data	SDG 3 contribution
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	1.4.1 Proportion of population living in households with access to basic services
Data / Parameter	BSA
Unit	Number
Description	Access to Basic Services (Number of ICS distributed under the project)
Source of data	ICS sales record
Value(s) applied	398,750 (covers stove sold from VPA 01 to VPA 13)
Measurement methods and procedures	ICS sales record and usage surveys to assess the number of households achieving continued access to basic, affordable, modern energy services (project ICS technology)
Monitoring frequency	Continuous
QA/QC procedures	-
Purpose of data	SDG 1 contribution
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	1.4.1 Proportion of population living in households with access to basic services
Data / Parameter	HHS
Unit	%
Description	Household Savings
Source of data	Ex-post monitoring surveys
Value(s) applied	80%
Measurement methods and procedures	% HH reporting time / money saving due to reduced fuel consumption in project determined via ex-post questionnaire-based monitoring surveys of a sample of ICS population
Monitoring frequency	Continuous
QA/QC procedures	-
Purpose of data	SDG 1 contribution
Additional comment	-

Relevant Indicator/Safeguarding Principle	SDG	7.1 By 2030, ensure universal access to affordable, reliable and modern energy services
Data / Parameter		ACS
Unit		%
Description		Affordable and clean energy services
Source of data		Ex-post monitoring surveys
Value(s) applied		90%
Measurement methods and procedures		% HH reporting operational ICS in project determined via ex-post questionnaire-based monitoring surveys of a sample of ICS population.
Monitoring frequency		Continuous
QA/QC procedures		-
Purpose of data		SDG 1 and 7 contribution
Additional comment		-

Relevant Indicator/Safeguarding Principle	SDG	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities
Data / Parameter		QE IG
Unit		Number
Description		Quantitative employment and income generation (
Source of data		HR records/ Sales and marketing records
Value(s) applied		-
Measurement methods and procedures		The direct employment generated by the project at the coordinating entity shall be determined through internal HR records. Indirect employment generated at market level (retailers/distributors) may be estimated using the sales and marketing records.
Monitoring frequency		Annually / biennially
QA/QC procedures		-
Purpose of data		SDG 8 contribution
Additional comment		-

C.1.1 Other elements of monitoring plan (if applicable)

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Not applicable

SECTION D Duration and crediting period

D.1 Duration of project

D.1.1 Start date of project

>>

PoA/VPA	Start Date ²
GS916 (PoA)	10/05/2008
GS 1231 (VPA No. 01)	10/05/2008
GS 1029 (VPA No. 02)	31/05/2009
GS 1030 (VPA No. 03)	28/02/2010
GS 1031 (VPA No. 04)	30/06/2010
GS 3363 (VPA No. 05)	01/11/2010
GS 3364 (VPA No. 06)	01/11/2011
GS 3365 (VPA No. 07)	31/08/2012
GS 3366 (VPA No. 08)	17/03/2013
GS 3367 (VPA No. 09)	30/09/2013
GS 4291 (VPA No. 10)	05/05/2014
GS 5046 (VPA No. 11)	22/05/2015
GS 5417 (VPA No. 12)	30/08/2016
GS 5418 (VPA No. 13)	08/02/2017
GS 5680 (VPA No. 14)	21/03/2016
GS 6110 (VPA No. 15)	01/04/2018

D.1.2 Expected operational lifetime of project

>>

PoA lifetime-28 years

D.1 GS Crediting period of the project/activity

10 years, fixed crediting period for each VPA, limited to the end of lifetime of the PoA

D.2.1 Start date of the ongoing GS crediting period

>>

GS Ref ID	Crediting Period Start Date
GS 1231 (VPA No. 01)	10/07/2010
GS 1029 (VPA No. 02)	10/07/2010
GS 1030 (VPA No. 03)	10/07/2010
GS 1031 (VPA No. 04)	10/07/2010
GS 3363 (VPA No. 05)	28/11/2012
GS 3364 (VPA No. 06)	28/11/2012
GS 3365 (VPA No. 07)	28/11/2012
GS 3366 (VPA No. 08)	17/03/2013
GS 3367 (VPA No. 09)	30/09/2013
GS 4291 (VPA No. 10)	16/08/2015
GS 5046 (VPA No. 11)	22/09/2015
GS 5417 (VPA No. 12)	30/08/2016
GS 5418 (VPA No. 13)	01/02/2017
GS 5680 (VPA No. 14)	Not yet registered
GS 6110 (VPA No. 15)	Not yet registered

D.2.3 End date of the ongoing GS crediting period

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GS Ref ID	Crediting Period End Date

² Date of sale of first unit under the VPA.

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GS 1231 (VPA No. 01)	09/07/2020
GS 1029 (VPA No. 02)	09/07/2020
GS 1030 (VPA No. 03)	09/07/2020
GS 1031 (VPA No. 04)	09/07/2020
GS 3363 (VPA No. 05)	27/11/2022
GS 3364 (VPA No. 06)	27/11/2022
GS 3365 (VPA No. 07)	27/11/2022
GS 3366 (VPA No. 08)	16/03/2023
GS 3367 (VPA No. 09)	29/09/2023
GS 4291 (VPA No. 10)	15/08/2025
GS 5046 (VPA No. 11)	21/09/2025
GS 5417 (VPA No. 12)	29/08/2026
GS 5418 (VPA No. 13)	31/01/2027
GS 5680 (VPA No. 14)	Not yet registered
GS 6110 (VPA No. 15)	Not yet registered

D.2.3 Total length of the GS crediting periods

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10 years, fixed

SECTION E Stacking of new assets

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Not Applicable

Appendix 1. Contact information of project participants

Organization name	Envirofit International Ltd.
Registration number with relevant authority	-
Street/P.O. Box	109 N Colleague Ave Suite 200
Building	-
City	Fort Collins
State/Region	Colorado
Postcode	CO 80524
Country	United States of America
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Fax	-
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Contact person	
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Middle name	
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