




**Validation report form for renewal of CDM programme of activities period
(Version 03.0)**

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the programme of activities (PoA)	Up Energy Improved Cookstove Programme, Uganda PoA GS ID: GS 10898
Number and duration of the next PoA period	2 nd : 22/07/2021 to 21/07/2026
Version number of the validation report	0 <u>2</u>
Completion date of the validation report	1 <u>3</u> /0 <u>8</u> /2022
Version number of PoA-DD to which this report applies	Version 2.0 , Dated :- 24/02/2022
Coordinating/managing entity (CME)	UpEnergy Group
Host Parties	Uganda
SDG Impacts:	<ol style="list-style-type: none"> 1. SDG 1: No Poverty (1.1.1) 2. SDG 5: Gender Equality (5.4.1) 3. SDG 7: Affordable and Clean Energy (7.1.2) 4. SDG 8: Decent Work and Economic Growth (8.5.1) 5. SDG 13: Climate Action (mandatory) 6. SDG 15 Life on Land (15.1.1)
Applied methodologies and standardized baselines	AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass, version 12.0
Mandatory sectoral scopes	Sectoral Scope 03
Conditional sectoral scopes, if applicable	N/A
Name and UNFCCC reference number of the DOE	E-0052 :Carbon Check (India) Private Limited
Name, position and signature of the approver of the validation report	 Vikash Kumar Singh, Compliance Officer

SECTION A. Executive summary

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Purpose and general description

The Coordinating/managing entity (CME), UpEnergy Group has appointed the VVB, Carbon Check (India) Private Ltd. to perform a renewal of crediting period of the Gold Standard Programme of Activities “Up Energy Improved Cookstove Programme” in Uganda: GS ID – GS 10898 (hereafter referred to as “project activity”). This report summarises the findings of the validation of the project, performed on the basis of Gold Standard criteria for registration/renewal of crediting period, as well as criteria given to provide for consistent project operations, monitoring and reporting. This report contains the findings and resolutions from the validation and a validation opinion.

The purpose of the project is Dissemination of Improved Biomass Cookstoves (ICS) in Uganda. The dissemination of Improved Biomass Cookstoves (ICS) replaces existing, less efficient traditional cooking stoves using biomass (charcoal or wood-fuel) fuel for cooking. The Project will reduce deforestation in Uganda by reducing non-renewable biomass fuel consumption, reducing GHG emission and particulate emissions (PM), thus enhancing health and the Indoor Air Quality of project households, thereby achieving equivalent GHG emissions reductions.

While the project ICS significantly reduce greenhouse gas emissions, they simultaneously makes significant positive contributions towards sustainable development by reducing the level of IAP in the project households and reducing the use of non-renewable biomass for cooking by introducing ICS. These new kitchen regimes specifically provide some or all the following benefits:

- Reduces the demand for non-renewable biomass fuels required for cooking thus reducing the rate of deforestation connected to biomass fuel consumption
- Will reduce the biomass demand of the households and institutions, saving time and income and reducing their exposure to harmful indoor air pollutants.
- Economically, will Contribute to the scale-up of local businesses and organizations, with the potential to create jobs in assembly, retail, marketing, and distribution of ICS

The purpose of a renewal of crediting period is to have a thorough and independent assessment of the proposed project activity against the applicable Gold standard, in particular, the project's baseline, monitoring plan and the project's compliance with relevant Gold standard criteria. These are validated in order to confirm that the project design, as documented, is sound and reasonable and meets the identified criteria. Validation is a requirement for all Gold Standard projects and is necessary to provide assurance to stakeholders of the quality of the project and its intended generation of voluntary emission reductions (VERs).

Location

Uganda.

Scope of the validation

The validation scope is defined as an independent and objective review of the project design document (PoA-DD). The PoA-DD /01/ is reviewed against the relevant criteria (see above) and decisions by the Gold standard, including the approved baseline and monitoring methodology /B01/. The validation team has, based on the recommendations in the CDM Validation and Verification Standard and GS rules, employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of VERs.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

While carrying out the validation, CCIPL determines if the project activity complies with the requirements of the applicability conditions of the selected methodology /B01/, guidance issued by the Gold Standard and also assess the claims and assumptions made in the PoA-DD /01/ without limitation on the information provided by the project participants.

The Validation team confirms the contractual relationship signed between the VVB, Carbon Check (India) Private Ltd. and the CME. The team assigned to the validation meets the Carbon Check (India) Private Ltd.'s internal procedures including the UNFCCC/Gold Standard requirements for the team composition and competence. The projects team has conducted a thorough contract review as per UNFCCC and Carbon Check's procedures and requirements.

Validation methodology

The validation has been performed as described in the VVS and constitutes the following steps:

- Document review of data and information (PoA-DD /01/ and the relevant documents including the reference to information relating to projects or technologies similar to the proposed project activity and review based on the approved methodology /B01/ being applied and of the appropriateness of formulae and accuracy of calculations).
- Cross checks between information provided in the PoA DD /01/ and information from other sources.
- Follow up actions for cross checking data and remote assessment.
- Reference to available information
- Issuance of Validation Report.

Validation Process

The validation consists of the following four phases:

- I. A desk review of the project design documents
 - A review of data and information;
 - Cross checks between information provided in the PoA-DD /01/ and the information from sources with all the necessary means without limitations to the information provided by the project proponent;
- II. Remote Audit and follow-up interviews with the project stakeholders
 - Interviews with the relevant stakeholders in the host country with personnel having knowledge with the project development via telephone, email or remote audit
 - Cross checking between information provided by interviewed personnel with all necessary means without limitations to the information provided by the project proponent;
- III. Reference to available information's relating to projects or technologies similar projects under validation and review based on the approved methodology /B01/ being applied of the appropriateness of formulae and accuracy of calculations.
- IV. Resolution of outstanding issues and the issuance of the final validation report and opinion.

The report is based on the assessment of the PoA-DD /01/ undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, remote audit and stakeholder interviews, review of the applicable/applied methodology /B01/ and its underlying formulae and calculations.

This report contains the findings and resolutions from the validation and a validation opinion on the proposed project thus confirming the project design as document is sound and reasonable and meets the stated requirements and identified criteria.

The validation protocol describes a total of Two (02) findings which include:

- 01 Corrective Action Request (CAR);
- 01 Clarification Request (CL);

All findings are closed during the validation process.

Conclusion

Carbon Check (India) Private Ltd. concludes the validation of renewal of crediting period with a positive-opinion that the PoA “Up Energy Improved Cookstove Programme”, as described in the PoA-DD /01/, meets all applicable Gold standard requirements, relevant methodologies, tools and guidelines.

The selected baseline and monitoring methodology /B01/ is applicable to the project and correctly applied. Carbon Check (India) Private Ltd. therefore recommends the project to the Gold Standard for renewal of crediting period.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Team Leader/Technical Expert	IR	Anand	Amit	CCIPL
2.	Team member	IR	Ganesh Gedam	Pallavi	CCIPL
3.	Technical Reviewer	IR	C	Indumathi	CCIPL
4.	Approver	IR	Singh	Vikash Kumar	CCIPL

SECTION C.

C.1. Desk/document review

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List of all documents reviewed or referenced during the validation is provided in Appendix-3

C.2. On-site inspection

On-site visit is not done for the validation activity (Renewal of crediting period) due to national and international restrictions on travel due to COVID-19 impact. Therefore, VVB followed GS rule update 'COVID-19: Interim measures', version 5 dated 21/12/2021 and alternate measures are adopted as described below:

The validation team has carried out remote interviews in order to assess the information included in the updated PoA DD is consistent with the registered POA-DD. During the desk review, the relevant updated information in consistent with the registered POA-DD and corresponding validation report were checked. Previous periodic monitoring and verification reports, telephonic interviews with project representatives were carried out. Details obtained were cross checked with publicly available documents to cross check consistency of information. There is no change of the project design, construction, operation and monitoring plan. There is no pre-project information that is relevant to the requirements for renewal of the PoA period and may not be traceable after the renewal.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Lohia	Rohit	Climate Secure.	07/02/2022	Discussion on the revised POA DD and the proposed RCP	Amit Anand
2.	Tiwari	Ashutosh	Climate Secure.	07/02/2022	Discussion on the revised POA DD and the proposed RCP	Amit Anand
3.	Rajagopalan	Anantha Karthik	UpEnergy Group	07/02/2022	Discussion on the revised POA DD and the proposed RCP	Amit Anand

C.4. Sampling approach

>> Not Applicable

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Programme of activities	--	--	--
Compliance with PoA-DD form	--	--	--
Programme of activities period	--	--	--
Coordinating/managing entity and the project participants	--	--	--
Post-registration changes	--	--	--
Generic component project activities	--	--	--
Application and selection of methodologies and standardized baselines	01	--	--
Validity of original baseline or its update	--	--	--
Estimated emission reductions or net anthropogenic removals	--	--	--
Validity of monitoring plan	--	--	--
Eligibility criteria for inclusion of CPAs	--	01	--
Others (please specify)	--	--	--
Total	01	01	--

SECTION D. Validation findings

D.1. Programme of activities

D.1.1. Compliance with PoA-DD form

Means of validation	Document review, interviews
Findings	-
Conclusion	<p>CC IPL confirms the following:</p> <ul style="list-style-type: none"> The compliance of the GS-PoA-DD /01/ (with the valid version of the applicable PoA-DD form, version 1.1 including the instructions for completion of the form) /B02/. CME has used the latest version of the GS-PoA-DD form /B02/ and assessment team confirms that the information transferred to the latest version of the PoA-DD /01/ is materially the same as that in the approved PoA-DD. <p>The validation team confirms that the requirements of the GS-PoA-DD FORM /B02/ filling guidelines have been appropriately met.</p>

D.1.2. Programme of activities period

Means of validation	Document review, Interviews
Findings	-
Conclusion	<p>The implementation status of the project activity has been provided to the validation team. The start date of the second PoA Period will be 22/07/2021, immediately after the end of the first PoA period.</p> <p>Start date of the crediting, expected operational lifetime and duration of the crediting period, have been provided in the PoA-DD /01/; Checked and found appropriate to the Validation Team. According to Gold Standard for The Global Goals Programme of Activity Requirements (paragraph 13.1.1): “All Gold Standard PoAs shall be renewed every 5 years. Exception is granted to PoAs that were registered under earlier versions of Gold Standard which shall be renewed after the first 7 years and thereafter follow the Gold Standard for the Global Goals certification cycle (i.e., 5 year renewals)”.</p> <p>Furthermore, paragraph 3.1.3 of the PoA Requirements states “The PoA duration shall not exceed 20 years or the crediting period of first VPA/CPA plus 5 years, whichever is greater. The PoA that are design certified under an earlier version of Gold Standard shall maintain their maximum crediting periods as envisaged at time of registration”. Accordingly CME has maintained the the length of the PoA as 208 years, renewal after every 5 years which is deemed acceptable to the validation</p>

team. So the second period of the POA is from 22/07/2021 to 21/07/2026

D.1.3. Coordinating/managing entity and the project participants

Means of validation	Document review, Interviews
Findings	-
Conclusion	<p>The Validation team has checked the names of the coordinating/managing entity and the project participants in the updated PoA-DD.</p> <p>As per the updated PoA-DD /01/, the coordinating/managing entity, project participants and parties involved in the programme of activities is Up Energy Group.</p> <p>Names of the coordinating/managing entity and the project participants in the updated PoA-DD /01/ are consistent with the names of the coordinating /managing entity and the project participants is the same as per the registered PoA DD.</p>

D.1.4. Post-registration changes

Not applicable

D.2. Generic component project activities

D.2.1. Application and selection of methodologies and standardized baselines

Means of validation	Document Review, Interview
Findings	CL 01 was raised and successfully closed. Refer to Appendix 4 for further details.
Conclusion	Please refer to the assessment in Appendix 5 of the VR.

D.2.2. Validity of original baseline or its update

Means of validation	Document review, Interviews
Findings	-
Conclusion	<p>Validation team reviewed the revised PoA-DD /01/ to assess the impact of new national and/or sectoral policies and circumstances existing at the time of requesting renewal of PoA period on the modalities to estimate baseline GHG emissions for the subsequent crediting period of each corresponding VPA, without reassessing the baseline scenario.</p> <p>The validation team assessed whether SDG parameters used for determining the original baseline, that were determined during the registered PoA period and are still valid for baseline at the renewal of the crediting period. During 2nd renewal period, PoA has applied valid version of the methodology, "AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass", Version 12.0, this project is a small scale project.</p> <p>Validation team confirms that the baseline scenario opted by the project activity is in accordance with the requirements of the applied methodology, "AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass", version 12.0 /B01/.</p> <p>Based on the review of revised POA DD /01/ and remote audit, validation team confirms that the baseline scenario (use of non-renewable woody biomass or charcoal for cooking) of the project is still valid during the 2nd crediting period.</p>

D.2.3. Estimated emission reductions or net anthropogenic removals

Means of validation	Document review, Interviews
Findings	-
Conclusion	<p>As per applicable methodology, AMS-II.G. version 12.0; formula to calculate emission reductions (ERs) is:</p> $ER_y = \sum_i \sum_j ER_{y,i,j} - LE_y \quad (1)$ <p>Where,</p>

- i = Indices for the situation where more than one type of project device is introduced to replace the pre-project devices
- j = Indices for the situation where there is more than one batch of project device
- ER_y = Emission reductions during year y in (tCO₂e)
- $ER_{y,i,j}$ = Emission reductions by project device of type i and batch j during year y in (tCO₂e)
- LE_y = Leakage emissions in the year y

Where,

$$ER_{y,i,j} = B_{y,savings,i,j} \times N_{o,i,j} \times n_{y,i,j} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil\ fuel} \quad (2)$$

Where,

- $B_{y,savings,i,j}$ = Quantity of woody biomass that is saved in tonnes per cook stove device of type i and batch j during year y (tonnes)
- $f_{NRB,y}$ = Fraction of woody biomass that can be established as non-renewable biomass (fraction or %)
- $NCV_{biomass}$ = Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne, based on the gross weight of the wood that is 'air-dried')
- $EF_{projected_fossilfuel}$ = Emission factor for the fossil fuels projected to be used for substitution of non-renewable woody biomass by similar consumers. Use a value of 73.2 t CO₂e/TJ
- $N_{o,i,j}$ = Number of project devices of type i and batch j commissioned (number)
- $n_{y,i,j}$ = Proportion of commissioned project devices of type i and batch j that remain operating in year y (fraction)
- μ_y = Adjustment to account for any continued use of pre-project devices during the year y

$$B_{y,savings,i,j} = B_{old,i,j} \times \left(1 - \frac{\eta_{old,i,j}}{\eta_{new,i,i}} \right) \quad (7)$$

Where,

- $B_{old,i,j}$ = Annual quantity of woody biomass that would have been used in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project device type i and batch j (tonnes/year)

	$\eta_{\text{new},i,j}$ = Efficiency of the project device i and batch j (fraction) $\eta_{\text{old},i,j}$ = Efficiency of the old devices being replaced by project devices of type i and batch j (fraction)
	$\overline{B_{old,i,j}} = B_{old,HH} = B_{old,p} \times N_{p,HH} \times LAF_y(11)$
	Where,
	$B_{old,HH}$ = Annual quantity of woody biomass that would have been used in the household in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices ¹
	$B_{old,x}$ = Annual quantity of woody biomass that would have been used per person in the household in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices
	$N_{p,HH}$ = Average number of persons per household (number)
	LAF_y = Leakage adjustment factor

D.2.4. Validity of monitoring plan

Means of validation	Document reviews, interviews
Findings	--
Conclusion	<p>The outcome for SDG 13 will be quantified as CO₂ emission reductions by applying the "AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass", version 12.0 methodology /B01/. The SDG 13 outcome will be certified as 'Certified SDG 13 Impact Statement' allowing the generation of carbon credits (VERs).</p> <p>The other SDG impacts of this project activity (SDG 1, SDG 5, SDG 7, SDG 8 and SDG 15) will not be certified as 'Certified Impact Statements' and therefore, for these SDG impacts no specific methodologies for estimation and monitoring will be applied. Section A.4 of the POA-DD /01/ outlines how these SDGs are relevant and will be monitored.</p> <p>As per the POA-DD /01/ the monitoring activity provides a framework for project preparation and monitoring processes that will be undertaken, as required by the GS rules. This schedule takes into account the key parameters that are needed during the crediting periods of the project. All required monitoring and documentation will be implemented, reported, consolidated and managed by the project proponent or a qualified expert partner to meet verification requirements.</p> <p>Validation team confirms that the monitoring plan complies with the requirements of the methodology, "AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass", version 12.0 /B01/. The monitoring arrangements described in the monitoring plan are feasible within the project design and that the PP is able to implement the described monitoring plan. Validation team further confirms that all the ex-post monitoring parameters (Carbon as well as SD monitoring parameters) have been approved by GS during the transition of the project in GS4GG /B04/ and thus acceptable.</p>

D.2.5. Eligibility criteria for inclusion of CPAs

Means of validation	Document review, Interviews			
Findings	CAR 01 had been raised and successfully resolved. Please refer to Appendix 4 for further details			
Conclusion	As per the section B.3 of the revised PoA-DD /01/,			
	No.	Eligibility Criterion	Description/ Required condition	Means of Verification/Supporting evidence for inclusion
	1.	Geographic Boundary	Each SSC VPA shall involve installation of ICS within the geographical boundary of Uganda.	<p>Invoice Sales database, listing the country of ICS distributed under the VPA.</p> <p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs in line with §122 (a) of the CDM project standard for programmes of activities, version 3.0</p> <p>The geographical boundary of each VPA, shall be consistent with the geographical boundary set in the PoA in accordance with para 2.1.1 of the GS4GG Programme of activity ver 1.2 requirements. The PoA boundary is set as Uganda.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criterion is defined in accordance with the GS4GG principles and requirements ver 1.2.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well</p>

				as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.
2.	Double Counting	<p>Each SSC VPA shall have a system to ensure that ICS bear logo of the PO /CME to ensure their unique association to the PoA.</p> <p>Provisioning a system to ensure transfer of ownership of emission reductions, generated by project devices, from end user to PO/CME.</p>	<p>To avoid inclusion of any stove which is a part of another registered carbon project/ programme, all ICS under this programme shall have a unique ID number / Tag number, either inscribed on the stove or retained by the buyer, to uniquely identify the ICS avoiding any double-counting and trace its user, later during monitoring and verification</p> <p>System by which the project device beneficiary transfers the rights of CER ownership to PO/ CME</p>	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs in line with §122 (a) of the CDM project standard for programmes of activities, version 3.0</p> <p>Validation team based on review of POA DD /01/ and remote interview confirms that the project activity is implemented in Uganda.</p> <p>Validation team based on web-research of carbon registries (CDM, GS, VCS), provided agreements with the project owner and distributors/producers and unique identification (serial number/logo) system on the ICS confirms that there are no other such GS projects in the region where the project intervenes, hence no risk of double counting.</p> <p>Thus, it can be confirmed that the project boundary is clearly identified, and the technologies counted in the project are not included in another voluntary market or CDM project activity (i.e., no double counting takes place).</p>
3.	Exclusiveness of VPA	The VPA shall not be previously:	Confirmation by CME	Validation team confirms that this eligibility criterion

			<p>Registered as a project activity, or Included as a CPA in any other registered PoA, or Deregistered as a CPA of a PoA</p>		<p>has been sufficiently set for all VPAs in line with §122 (b) of the CDM project standard for programmes of activities, version 3.0.</p> <p>All VPAs shall avoid double-registration of VPA (and double counting) by declaration by the CME/05/ after checking the gold standard regi homepage. And letter signed by the CME.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.</p>
	4.	<p>Specifications of Technology/ Measure</p>	<p>Type - The VPA will promote dissemination of improved biomass ICS in Uganda. Capacity - The rated annual thermal energy savings of ICS included under the VPAs shall not be more than 60GWhth. Specification - The rated efficiency of technologies included under the program shall be at least 20 per cent..</p>	<p>Technical details of the ICS (including thermal efficiency) will be provided in the specific VPA. As specific VPA may have progressive sales and new models may be introduced during the VPA, this may be checked at the time of subsequent verification wrt for new models / incremental installations.</p>	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs inline with the requirements and applicability conditions prescribed by the methodology, as well as §122 (c) of the CDM project standard for programmes of activities, version 3.0.</p> <p>The key technology specification of the each VPA will be provided in the VPA DD and shall be checked at the time of verification.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.</p>

					<p>Technical Specification Details will be made available by the VPA to demonstrate compliance with the eligibility conditions .</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs.</p> <p>The description in the PoA DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs.</p>
	5.	Start Date	Date on which first ICS was installed under the VPA. The start date of any proposed VPA will be on or after the start date of the PoA	Sales Invoice / End user agreement / voucher etc for the first ICS distributed in the VPA..	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs inline with the requirements § 3 of GS4GG of PoAs and with §122 (d) of the CDM project standard for programmes of activities, version 3.0</p> <p>The start date of VPAs shall be on or after the PoA start date.</p> <p>The start date of the VPAs will be the date that the first purchase of appliances was sold.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the</p>

					<p>corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	6.	<p>Applicability of the methodologies</p>	<p>VPA must follow AMS.II-G ver.12.</p> <p>The applicability of methodology at VPA level has been demonstrated in section B.2 above. Technology related requirements stipulated by the methodology have been specified in criteria #4 above.</p>	<p>VPA-DDs applying AMS II.G. Version 12</p>	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs which will distribute the ICS technologies inline with the requirements §9.1.2 and §9.1.3 of the GS4GG for PoAs, v 1.2.</p> <p>All VPAs will comply with the CDM methodology “AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass”, Version 12.0, 14/12/2020.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the CDM programme of activity requirements ver 1.2.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence</p>

					for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.
	7.	Additionality	<p>Each VPA will satisfy the criteria for demonstrating additionality through one of the following options:</p> <p>Option 1: As per Activity Requirement: As per GS4GG Community services activity requirements, Version 1.2, Para 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:</p> <p>(a) Positive list (Annex B of this document)</p> <p>(b) Projects located in LDC, SIDS, LLDC</p> <p>(c) Microscale projects</p> <p>Option 2: As per tool 21: "Demonstration of additionality of SSC project activities"</p> <p>Option 3: As per tool 19: "Demonstration of additionality</p>	<p>Refer section C below</p> <p>To be demonstrated in VPA-DD. Refer section B.5 (demonstration of additionality) of VPA-DD for additionality.</p>	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs as per GS4GG Community services activity requirements, Version 1.2, Para 4.1.9. and §122 (g) of the CDM project standard for programmes activities, version 3.0.</p> <p>All VPAs shall be additional to be included in the PoA provided they met this eligibility criteria of the PoA. This is adequately prescribed in section C of the PoA-DD.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>

			of microscale project activities”		
	8.	LSC and EIA	<p>The Local Stakeholder Consultation is conducted at the PoA level (Section F of the PoA-DD) and is not required at VPA level.</p> <p>An Environmental Impaact Analysis is not required.</p>	N/A	<p>As per the PoA DD /01/, the local Stakeholder Consultation (LSC) and Environmental Impact Analysis (EIA) are on PoA Level.</p> <p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs as per § 6 GS4GG for PoAs, v1.2.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the §122 (i) of the CDM programme of activities standard v.3.0.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	9.	Public Funding	Affirmation that funding from Annex I Parties, if any, does not result in a diversion of official development	Please refer Annex [XX]. Declaration from CME and VPA Implementer that no funds for official	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs.</p> <p>Also as per section A.3. Table 1 point</p>

			<p>assistance</p>	<p>development assistance will be used for VPA implementation</p>	<p>no. 8 “Declaration of Non-Use of Official Development Assistance by Project Owner of VPA”/06/ provided by CME and Section A.6. of the PoA-DD, states no public funding from Annex 1 parties.</p> <p>Validation team based on review of the PoA-DD /01/ and document review confirms that the eligibility criterion is defined in accordance with the §122 (j) of the CDM Programme of Activities requirements v.3.0.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA</p>
	<p>10.</p>	<p>Target Group and Distribution Mechanism</p>	<p>Target Group: Households / Institutions Distribution Mechanism: Via CPAI / local partners</p>	<p>The ICS by virtue of their size, output and design are usable only in households/ institutions. The VPA Sales database will confirm distribution to households/ins titutions</p>	<p>Validation team confirms that this eligibility criterion shall ensure that all VPAs shall specify the target group for all eligible VPAs in order to confirm to the applied CDM methodology, as well as the PoA stated policy, operational and management framework inline with GS4GG</p>

					<p>requirements.</p> <p>This PoA states the target group as both rural and urban households and institutions within the national boundaries of Uganda, that will use the Improved Cook Stoves (ICS) technologies.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criterion is defined in accordance with the §122 (k) of CDM programme of activities requirements v.3.0</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	11.	Sampling	VPAs under the program will adhere to all requirements as mentioned in Standard: Sampling and surveys for CDM project activities and programme of activities and “Guidelines for sampling and	VPAs will follow monitoring plan described in PoA-DD.	<p>Validation team confirms that this eligibility criterion shall ensure that all VPAs in the PoA shall apply to the sampling plan of the PoA.</p> <p>This eligibility criterion is in accordance with the CDM methodology AMS II.G. - “Energy</p>

			<p>surveys for CDM project activities and programme of activities”.</p>		<p>efficiency measures in thermal applications of non-renewable biomass”, version 12.0 and “Standard: Sampling and surveys for CDM project activities and programme of activities”, v08.</p> <p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criterion is defined in accordance with the para 122 of the CDM programme of activities standard v.3.0.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	12.	SSC Threshold	<p>CPA will meet the following small-scale threshold criteria:</p> <ol style="list-style-type: none"> 1. Annual thermal energy savings not exceeding 180-gigawatt hours thermal (GWhth) equivalent per year throughout the crediting period. 	<ol style="list-style-type: none"> 1. Aggregate thermal energy savings from the CPA ($\leq 180\text{GWhth}$). 2. Proposed Implementation plan if independent subsystems in the VPA qualify as micro-scale units. <p>Evidence -</p>	<p>Validation team confirms that this eligibility criterion shall ensure that all VPAs in the PoA are type II Category VPA.</p> <p>This eligibility criterion is in accordance with the CDM methodology AMS II.G. - “Energy efficiency measures in thermal applications of non-renewable biomass”</p>

			2. However, if CPAs are solely comprised of micro-scale units, then the above is not required	Emission Reduction sheet	(Version 12.0), Validation team based on review of PoA-DD /01/ confirms that the eligibility criterion is defined in accordance with the §122 (m) of the CDM programme of activities standard v.3.0. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding VPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.
	13.	De-Bundling Check	As per GS4GG Programme of activities requirements section 10.1.1, de-bundling provisions do not apply to Voluntary PoAs.	Not required	This criteria is not applicable as this is project is Voluntary PoA.
	14.	VER Ownership	Each VPA will assure ownership of the VERs is secured by the CME.	The ICS owners transfer their rights on ownership of carbon credits to PP via the sales receipt /consent form. Alternatively, this may be communicated to the end users, at the time of purchase / distribution via	Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs inline with the requirements GS4GG principle and requirements v1.2 The ICS owners transfer their rights on ownership of carbon credits at the time of distribution.

				<p>disclaimer on the product packaging, on CME's website etc.</p>	<p>Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the §122 of CDM programme of activities v.3.0.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	15.	Safeguarding Principles	Conducted at PoA level	Not Applicable	This Criteria is not applicable at VPA level.
	16.	SDG Outcome Assessment	<p>The monitoring plan for SDG shall include:</p> <ol style="list-style-type: none"> 1. Average household savings due to decrease in expenditure on basic services due to adoption of project technology/ measures 2. Average time saving associated with cooking time and fuel collection 3. Number of beneficiaries household 4. % of ICS operating 5. Number of male/female 	VPA-DD SDG monitoring plan in line with PoA SDG monitoring plan.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all VPAs inline with the GS4GG principle and requirements v1.2.</p> <p>Based on the review of POA-DD /01/ and during the remote audit confirms that the SDG outcome assessment was conducted at PoA level and all the VPA will follow the same monitoring plan. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.</p>

			<p>persons hired 6. Woodfuel savings reported by user under project</p>		<p>The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p>
	<p>The CME has outlined clear and unambiguous eligibility criteria for the inclusion of a VPA under the PoA in section B.3 of the PoA-DD /01/. Validation team confirm that the eligibility criteria for inclusion of corresponding VPAs in the PoA are updated by the CME in accordance with the applicable validation requirements related to the renewal of programme of activities period GS4GG.</p> <p>Validation team confirm that the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of VPAs in the PoA. Furthermore, the validation team confirms that eligibility criteria for the inclusion of VPAs in the PoA.</p>				

SECTION E. Internal quality control

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The final validation report has passed a technical review and quality review before being submitted to the project participant and Gold Standard. The technical review was performed by a technical reviewer qualified in accordance with CCIPL’s qualification scheme for CDM validation and verification

SECTION F. Validation opinion

>>

The CME, UpEnergy Group , has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA “Up Energy Improved Cookstove Programme”, in Uganda /01/.

The validation was performed in accordance with the GS4GG principles and requirements and GS4GG programme of activity requirements, latest version of CDM Project Standard for Programme Of Activities /B03-e/ and Validation and Verification body requirements and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The programme of activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the generic VPA-DD. In the opinion of the validation team, the programme of activity meets all relevant UNFCCC, criteria and all relevant host country criteria.

The review of the PoA-DD /01/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline and/or its update through an assessment. The PoA-DD /01/ correctly applies the methodology” AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass ” Version 12.0 /B01/. The monitoring arrangements described in the monitoring plan are feasible within the PoA-DD, and it is validation team’s opinion that the CME/CPA Implementer are able to implement the monitoring plan.

During the course of validation one (01) CL and one (01) CAR were identified on initially submitted PoA-DD. All the CL and CAR have been resolved by the CME. In summary, it is validation team's opinion that the GS programme of activity "Up Energy Improved Cookstove Programme, Uganda" (GS 10898) meets all relevant GS4GG requirements for the renewal of the PoA period. Hence CCIPL requests the renewal of GS programme of activities period.

Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CME	Coordinating / Managing Entity
CO₂	Carbon Dioxide
CO₂e	Carbon Dioxide Equivalent
CPA	Component Project Activity
DOE	Designated Operational Entity
DR	Document review
FVR	Final Validation Report
EB	CDM Executive Board
EF	Emission Factor
EI	External individual
FA	Final Approval
FAR	Forward Action Request
FVR	Final validation Report
GHG	Greenhouse gas(es)
GS	Gold Standard
GS4GG	Gold standard for global goals
I	Interview
IAP	Indoor Air Pollution
ICS	Improved cook stove
IPCC	Intergovernmental Panel on ClimateChange
IR	Internal resource
LDC	Least Developed Country
LLDC	Land Locked Developing Country
MW	Mega Watt
POA-DD	Programme of Activity Design Document
PP	Project Participant
OSV	On Site Visit
QC/QA	Quality control /Quality assurance
RCP	Renewal of Crediting Period
SDGs	Sustainable Development Goals
SIDS	Small Island Developing States
SS	Sectoral Scope
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VER	Voluntary Emission Reduction
VPA	Voluntary Project Activity
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Amit Anand

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input checked="" type="checkbox"/>

Mr. Vikash Kumar Singh
Compliance Officer

Date of Approval
24/12/2021

Valid Till
23/12/2022

Revision History of the Document

01/03/2020 ²	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision
24/12/2021	Annual Revision

¹ India and South Africa

² Please refer to previous version of competency certificates for the revision history.

CARBON CHECK (INDIA) PRIVATE LIMITED
CIN: U74930DL2012PTC232495

Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005

Corporate off: Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector-32 Noida, Uttar Pradesh
Tel: +91 120 4373114 | URL: www.carboncheck.co.in | e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Ms. Pallavi Gedam

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1 TA 4.1 TA 9.1 TA 13.1
 TA 1.2 TA 5.1 TA 9.2 TA 13.2
 TA 3.1 TA 5.2 TA 10.1 TA 14.1

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
29/11/2021

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01/03/2020 ²	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision
29/11/2021	Revision in response to qualification as Team Leader and Technical Expert

¹ India

² Please refer to previous version of competency certificates for the revision history.

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Carbon Check (India) Private Ltd.

Ms. Indumathi. C

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1 TA 4.1 TA 9.1 TA 13.1
 TA 1.2 TA 5.1 TA 9.2 TA 13.2
 TA 3.1 TA 5.2 TA 10.1 TA 14.1

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2021

Valid Till
23/12/2022

Revision History of the Document

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24/12/2020	Annual Revision
24/12/2021	Annual Revision

¹ India.

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Appendix 3. Documents reviewed or referenced

Ref no.	Reference Document
/01/	a) PoA-DD, version 2.0, 24/02/2022 b) VPA-DDs 2 to 12, version 2.10, 294/072/2022
/02/	Emission reduction calculation spread sheets for each of the VPAs
/03/	Sample End user agreement and sales receipts
/04/	Technical specification of the ICSs
/05/	Declaration from the project proponent that the project has not or shall not claim carbon credits any other scheme after Registration of the project under GS4GG.
/06/	Declaration for non-diversion of ODA funding in the project
/B01/	AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass, version 12.0
/B02/	Key Project Information & Programme Design Document (POA-DD), Version 1.1 dated: 14/10/2020
/B03/	a. GS4GG Programme of Activity requirements version 1.2 b. GS4GG Principles and requirements version 1.2 c. Validation and Verification body requirements version 2.0 d. Community Services Activity Requirements (version 1.1) under GS4GG e. CDM Project Standard for Programme of Activities version 3.0
/B04/	a. GS registered PoA TRF and KPID for GS ref. no. 10898, version 3.0, dated 04/10/2021 b. GS registered VPAs TRF and KPID for GS ref. nos. 10900 to 10910, version 4.0, dated 04/10/2021

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation

CL ID	01	Section no.	PoA-DD	Date: 08/02/2022
Description of CAR				
In section B.2 of the PoA-DD, CME has quoted the applied methodology paragraph " <i>If the project device requires a specific fuel for this device (e.g. briquettes, pellets, woodchips), the consumption of the fuel should be monitored during the crediting period.</i> " which is not found in version 12 of AMS-II.G. Clarification is requested.				
CME response				Date: 24/02/2022
Section B.2 of the PoA-DD has been revised accordingly.				
Documentation provided by CME				
Revised version of PoA-DD				
DOE assessment				Date: 10/03/2022
Project Owner has now deleted the applied methodology paragraph which was not found in the Methodology AMS-II.G., version 12 and has revised the PoA-DD. The CL is closed.				

Table 2. CAR from this validation

CAR ID	01	Section no.	PoA-DD	Date: 08/02/2022
Description of CAR				
In section B.3 of the PoA-DD, SDG outcome and Safeguarding Principles assessment is missing.				
CME response				Date: 24/02/2022
Refer Eligibility criteria #15 and #16 in the section B.3 of the PoA-DD for SDG outcome and Safeguarding Principles assessment. The Safeguarding Principles assessment is conducted at PoA level and is not applicable at the VPA level, hence it has been marked as “not applicable” in section B.3 of PoA-DD. Please refer section E of the PoA-DD for Safeguarding Principles assessment conducted at PoA level.				
Documentation provided by CME				
Revised version of PoA-DD				
DOE assessment				Date: 10/03/2022
SDG outcome and Safeguarding Principles assessment has been added in the section B.3 of the PoA-DD. Thus, the CAR is closed.				

Table 3. FAR from this validation

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				
-				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Appendix 5: Methodology Applicability

The project applies the approved methodology AMS II.G. - Energy efficiency measures in thermal applications of non-renewable biomass, version 12.0 /B01/. Applicability criteria for the baseline methodology /B01/ are assessed by the validation team by means of document review and interview. It is agreed in the validation team's opinion that the project activity fully meets the criteria as described below:

Applicability criteria as per methodology /B02/	Means of Validation
<p>1. Paragraph 2 of the applied methodology: This methodology comprises efficiency improvements in thermal applications of non-renewable biomass. Examples of applicable technologies and measures include the introduction of high efficiency biomass fired project devices (cook stoves or ovens or dryers) to replace the existing devices and/or energy efficiency improvements in existing biomass fired cook stoves or ovens or dryers.</p> <p>Justification: The VPA includes dissemination of high efficiency biomass fired ICS, to replace the existing traditional cookstoves in beneficiary households / institutions. The same has been developed as eligibility criteria (#4, # 10) for inclusion of VPA in the PoA.</p>	<p>As verified during the remote audit and review of POA-DD /01/, the validation team confirms that the methodology used is applicable to the project activity as it includes dissemination of high efficiency biomass fired ICS, to replace the existing traditional cookstoves in beneficiary households / institutions.</p> <p>Furthermore, as confirmed by remote audit interviews, the targeted end-users would be households, residential, institutional, commercial facilities which would use improved biomass cookstoves ("ICS")</p>
<p>2. Paragraph 3 of the applied methodology: In the case of cookstoves, the methodology is applicable to the introduction of single pot or multi pot portable or in-situ cookstoves with rated efficiency of at least 20 per cent. Refer to the requirements indicated in "Data / Parameter table 14" which details the options for testing and certification as well as supporting documentation (e.g. certificate issued by third party or test results) that needs to be presented to the validating DOE.</p> <p>Justification: The VPA shall include only those ICS that have a rated thermal efficiency of at least 20%. The same has been developed as an eligibility criterion (# 4) for inclusion of VPA in the PoA.</p>	<p>Based on the review of the Test Results or certificate issued by third party (of the POA-DD /01/) the validation team confirms that the rated efficiency of the ICS introduced is atleast 20 per cent</p> <p>Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPA.</p>
<p>3. Paragraph 4 of the applied methodology:</p> <p>The aggregate energy savings of a single project activity shall not exceed the equivalent of 60 GWh per year or 180 GWh thermal per year in fuel input.</p> <p>Justification:</p> <p>The VPA is a type II category VPA. The General Guidelines for SSC methodologies, version 23.1, paragraph 4.17 and para 53 of AMS II.G version 12, states that in case a CPA is solely comprised of "microscale CDM units" as defined in Tool 19, the coordinating / managing entity is not required to demonstrate compliance with the small-scale CDM thresholds at the aggregate level of the CPA.</p> <p>If the CPA does not qualify with para 53 of the methodology, then aggregate annual thermal energy savings shall be limited to 180GWh_{th} for the CPA.</p> <p>Thus, compliance with the requirement of methodology and para 122(m) of Standard: CDM project standard for programmes of activities, version 3.0, shall be ensured, by eligibility criteria #4):</p>	<p>Based on the review of section B.2 of the PoA-DD /01/ and remote audit, the validation team confirms that this PoA is type II Category. The VPAs will comply the General Guidelines for SSC methodologies, version 23.1, paragraph 4.17 and para 53 of AMS II.G version 12, which states that in case a CPA is solely comprised of "microscale CDM units" as defined in Tool 19, the coordinating / managing entity is not required to demonstrate compliance with the small-scale CDM thresholds at the aggregate level of the CPA. Furthermore, if the VPA does not qualify with para 53 of the methodology, then aggregate annual thermal energy savings shall be limited to 180 GWh_{th} for the VPA.</p> <p>Compliance with the requirement of methodology and para 122(m) of Standard: CDM project standard for programmes of activities, version 3.0, shall be ensured, by eligibility criteria #4):</p>

<p>4. Paragraph 5 of the applied methodology:</p> <p>Non-renewable biomass has been used in the project region since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.</p> <p>Justification: In 1985, more than 90% of total non-commercial energy demand in Uganda was met through fuelwood and charcoal . There has not been significant change in the non-commercial energy scenario since 1980 and the majority of household energy demand was met through charcoal and fuelwood even in year 2019 in Uganda. According to Uganda-Wood Fuel Overview by Waves published in June 2019 , total demand of wood fuel in Uganda was 53.1 million MT and wood fuels accounts 88% of all energy need in Uganda. The bulk of wood fuels (87% in fuelwood equivalent) are consumed by households, while industry and the commercial sector account for the balance (UBOS, 2018) It can therefore be concluded that non-renewable biomass has been used in Uganda since long back before 31st December 1989.</p>	<p>Validation Team based on review of PoA-DD /01/ confirms that, the Non-renewable biomass has been used in the project region, i.e. Uganda, long back before 31st December 1989.</p>
<p>4. Paragraph 6 of the applied methodology:</p> <p>For cases where the biomass is sourced from renewable sources, the project participants should use a corresponding Type I methodology</p> <p>Justification: Not Applicable (refer fNRB assessment above)</p>	<p>Validation team based on review of POA-DD /01/ confirms that, the criteria is not applicable.</p>
<p>5. Paragraph 7 of the applied methodology:</p> <p>The CDM-PDD or CDM-PoA-DD/CPA-DD shall explain the proposed method for distribution of project devices including the method to avoid double counting of emission reductions such as unique identifications of product and end-user locations (e.g. programme logo).</p> <p>Justification: The CDM-PDD or CDM-PoA-DD/CPA-DD shall explain the proposed method for distribution of project devices including the method to avoid double counting of emission reductions such as unique identifications of product and end-user locations (e.g. programme logo).</p>	<p>Validation team based on review of POA-DD /01/ confirms that, the cookstoves are stamped using Unique number id and the record of the individual distribution is maintained (ICS Total Sales record)</p>
<p>6. Paragraph 8 of the applied methodology:</p> <p>The CDM-PDD or CDM-PoA-DD/CPA-DD shall also explain how the proposed procedures prevent double counting of emission reductions, for example to avoid that project stove manufacturers, wholesale providers or others claim credit for emission reductions from the project devices.</p> <p>Justification: The CDM-PDD or CDM-PoA-DD/CPA-DD shall also explain how the proposed procedures prevent double counting of emission reductions, for example to avoid that project stove manufacturers, wholesale providers or others claim credit for emission reductions from the project devices.</p>	<p>Validation team reviewed the end user agreement and sales receipts /03/ which ensure the transfer of carbon credit ownership from end-users to the project owner.</p>

Appendix 6: Sustainability Validation Report

1. Sustainable Development Goals (SDG) outcomes

As per the PoA-DD /01/, the relevant SDG targets are:

SDG	SDG Target
1	1.1 "By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day."
5	5.4 "Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate."
7	7.1 "By 2030, ensure universal access to affordable, reliable and modern energy services"
8	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"
13	13.2 "Integrate climate change measures into national policies, strategies and planning"
15	15.1 "By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements."

Validation team confirms that above SDG targets have been approved by GS during the transition /08/ of the project in GS4GG and thus deemed acceptable to the validation team.

2. Safeguarding principle Assessment

POA-DD has provided GS4GG Safeguarding Principles Assessment in Section E.2. Validation team confirms that GS4GG Safeguarding Principles has been approved by GS during the transition /B04/ of the project in GS4GG and thus it can be concluded that the safeguarding principles assessment for the project has been conducted appropriately, according to GS4GG requirements, based on accurate information with all the reference sources as indicated in the POA-DD /01/. Therefore, in CCIPL's opinion the project has no harmful impact.