



DISTRIBUTION OF ONIL STOVES – MEXICO, SAN FELIPE USILA 1



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Summary:

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by C-Quest Capital LLC to conduct the verification of the project “Distribution of ONIL Stoves – Mexico, San Felipe Usila 1”, VCS ID 1216, against VCS Standard Version 4.0.

The verification includes confirming the implementation of the monitoring plan of the registered VCS PD and MR (Project ID 1216) and the application of the monitoring methodology as per AMS-II.G. version 03 “Energy efficiency measures in thermal applications of non-renewable biomass”.

The project involves the distribution and installation of ONIL Stoves for use by households in Mexico. This CPA is the first included under the “Distribution of ONIL Stoves – Mexico” PoA. Before the adoption of the ONIL Stove, households in Mexico used inefficient, conventional open fires. Therefore, the project reduces greenhouse gas emissions and thereby contributes to sustainable development.

A risk-based approach has been followed to perform this verification. In the course of verification, 03 Corrective Action request (CARs), 00 Forward Action Request (FAR) and 00 Clarification request (CLs) were raised and successfully closed.

The review of the project design documentation, monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, telephonic interviews and stakeholders have provided Applus+ Certification with sufficient evidence to validate the fulfillment of the stated criteria.

Applus+ Certification confirms that the project is implemented in accordance with the registered VCS-PD. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the project’s GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the emission reductions from the project activity “Distribution of ONIL Stoves – Mexico, San Felipe Usila 1” in Mexico during the period 01-August-2019 to 31-May-2020 (including both days) amount to 19,234 tCO_{2e}.

CONTENTS

1	Introduction	4
1.1	Objective	4
1.2	Scope and Criteria	4
1.3	Level of Assurance	4
1.4	Summary Description of the Project	5
2	Verification Process.....	5
2.1	Method and Criteria	5
2.2	Document Review	6
2.3	Interviews	6
2.4	Site Inspections	7
2.5	Resolution of Findings.....	9
2.5.1	Forward Action Requests	12
2.6	Eligibility for Validation Activities	12
3	Validation Findings.....	12
3.1	Participation under Other GHG Programs	12
3.2	Methodology Deviations	12
3.3	Project Description Deviations.....	12
3.4	Grouped Project.....	14
4	Verification Findings.....	14
4.1	Project Implementation Status	14
4.2	Safeguards	15
4.2.1	No Net Harm	15
4.2.2	Local Stakeholder Consultation.....	15
4.3	AFOLU-Specific Safeguards	16
4.4	Accuracy of GHG Emission Reduction and Removal Calculations.....	16
4.5	Quality of Evidence to Determine GHG Emission Reductions and Removals	30
4.6	Non-Permanence Risk Analysis	31
5	Verification conclusion	31
	APPENDIX 1: DOCUMENT REFERENCES	33
	APPENDIX 2: COMPETENCY STATEMENT	35

INTRODUCTION

1.1 Objective

Applus+ Certification has been contracted by C-Quest Capital LLC (project proponent), to undertake the verification of the energy efficiency project titled “Distribution of ONIL Stoves – Mexico, San Felipe Usila 1” (VCS ID 1216). The verifiers have reviewed the GHG data collected to date for the monitoring period from 01-August-2019 to 31-May-2020 (including both days) covered in this verification. The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirement by the DOE. The verification process shall determine whether the proposed project activity complies with the requirements of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The scope of the verification was the independent and objective review and ex-post determination of the monitored reductions in GHG emissions from “Distribution of ONIL Stoves – Mexico, San Felipe Usila 1”. The verification of this project was based on the registered project description/1.1,1.2/ & monitoring report /4/ and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

- VCS standard Version 4.0, dated 19-September-2019 /16/
- Approved baseline and monitoring methodology AMS-II.G. version 03 “Energy efficiency measures in thermal applications of non-renewable biomass”/14/
- Validated VCS Project Description, version 4.0 dated 02-December-2015 /1.1/
- Approved CDM CPA-DD version 15, dated 23-November-2012 /1.2/
- VCS Program Guide, Version 4.0, dated 19-September-2019 /17/
- CDM VVS for project activities version 02.0 /19/
- CDM PS for project activities version 02.0 /18/

The verification is not meant to provide any consulting towards the client. However, stated request for clarifications and/or corrective actions may provide input for improvement of the project design.

1.3 Level of Assurance

The level of assurance of the verification report falls under reasonable assurance engagements as selected by the Client. The verification team verified the complete monitoring data for all the parameters of the monitoring plan and confirms that the reported emission reductions are free from any type of material errors.

1.4 Summary Description of the Project

The registered PoA involves the dissemination (distribution/installation) of ONIL improved cooking stoves (ICS) in Mexico by PP through coordination with local/ channel sellers/ distributors/NGOs e.g. HELPS international A.C. and Fuego Limpio S.A. (FLSA). The overall responsibility of implementation and operation is with PP (CQC), which was also evident during the interviews with monitoring team members. The emission reductions were real, measurable, and verifiable and plays a beneficial role in the mitigation of climate change.

Fuego Limpo S.A. manufactures the ONIL stoves in coordination with HELPS international A.C. and distributes to the communities throughout Mexico. This project was registered as the CPA “ONIL Stoves – Mexico, San Felipe Usila¹” of the PoA “Distribution of ONIL Stoves – Mexico” under the CDM program.

The project start date has been confirmed through the registration card of 1st ONIL stove distributed under the project activity, i.e. 30-December-2009.

The total emission reductions achieved under the monitoring period 01-August-2019 to 31-May-2020 are 19,234 tCO₂e/5/.

VERIFICATION PROCESS

The registered VCS project is undergoing periodic verification under VCS, the approach adopted to ensure the quality of emission reductions is described in the following sections.

1.5 Method and Criteria

Verification was conducted using Applus+ Certification procedures in line with the requirements specified in the VCS standard Version 4.0 Requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques. The project activity does not fall under category “grouped projects”, hence any sampling methods not to be employed by the validation/verification body for the verification of GHG emission reductions or removals generated by the project.

It is to be assessed and determined whether the proposed implementation and operation of the project activity, and the steps taken to report emission reductions comply with the criteria and relevant guidance provided by the VCS Board. The verification process consists of the following three phases;

- 1) A desk review of the VCS PD and VCS MR
- 2) Telephonic interviews with project stakeholders
- 3) The resolution of outstanding issues and issuance of final report and opinion.

1.6 Document Review

The verification is performed primarily as a document review of the VCS PD/1.1/, previous MR and Verification report and associated documents as stated in details in appendix 1 of this document. The assessment is performed by a verification team referring the Applus+ Certification internal procedures in line with latest VCS requirements. The cross checks between information provided in the Monitoring report, VCS PD and information from sources other than those used, if available, the team's sectoral or local expertise and, if necessary, independent background investigations.

1.7 Interviews

Due to the current situation with the global COVID-19 pandemic scenario and country wide lock down in most of countries across the globe, an on-site inspection has not been performed by the verification team. However, the representatives of the PPs, ICS end users and onsite staff of PP were interviewed online via Skype/WhatsApp on 20-June-2020 i.e. personnel responsible for monitoring of the project activity, data collection and management, and QA/QC procedure. The details of the people interviewed are mentioned in the table below –

S N	Name	Organization
1	Andrea Santos	Fuego Limpio
2	Oscar Troncoso Torrez	Fuego Limpio
3	Tridip Kumar Goswami	C-Quest Capital LLC
4	Vineet Garg	C-Quest Capital LLC
5	Maria Del Rocio Chimal Poot	ICS End User
6	Genaro Garcia Lopez	ICS End User
7	Agustín Félix Virginia	ICS End User
8	Lucia Romero Merino	ICS End User
9	Bulmaro Santiago Nájera	ICS End User
10	María Guadalupe Colchado Salazar	ICS End User
11	Hilda Lucas De Jesus	ICS End User
12	Maria Irene Montante Ortiz	ICS End User
13	Teresa de Jesús Cruz Ortiz	ICS End User
14	Antonia Torres Don	ICS End User
15	Dolores Dominguez Rodríguez	ICS End User

The topics covered during interview ranges from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring system and data collection, recording and archiving procedures. The assessment was drawn based on the feedback received during interview coupled with the review of supporting documents.

1.8 Site Inspections

As discussed in the above section, physical site inspection is not done for the current verification. However, to achieve a reasonable level of assurance, the verification team has followed the alternative means to substantiate the verification criteria as described in the below table -

Assessment Criteria	Means of verification/source documents	Assessment opinion
Description of project activity	i. ICS Registration Database /8/ ii. Copies of Registration Card/9/ iii. Latest VCS verification report /2.1/. iv. Interview with PP representatives on 20-June-2020 v. Technical Specification of ICS /10/	The information's with reference to project activity, ICS technical details and installation dates as provided in section 1.1 of MR are found consistent with the documents.
Compliance of the project implementation with the registered project design document	i. Geographical co-ordinates (Location of Project activity) verified through Google Map¹ as well as sharing of live location from PP representative onsite. ii. Latest VCS verification report /2.1/. iii. Interview with PP representatives on 20-June-2020 iv. Latest photographs of project ICS installed at site through ICS User interviewed	Verified documents indicated the following information: • Details of monitoring equipment's • Number of project ICS installed • Name of project participant (Ownership of the project activity) Location of project activity is verified through Google Map. All the information's regarding the project implementation as discuss above are further verified through previous VCS verification report/2.1/ and found consistent.

¹ <https://www.gps-coordinates.net/>

Assessment Criteria	Means of verification/source documents	Assessment opinion
Compliance of the registered monitoring plan with applied methodologies and standardized baselines	i. Interview with PP representatives and ICS users on 20-June-2020 ii. Sampling Survey Spreadsheet /6//7/	The organizational structure, responsibilities and competencies of the personnel confirmed through interview with PP representatives. Frequency of monitoring of parameters listed under approved monitoring plan is verified through sampling survey records/12/. The methods used for measuring, recording, storing, aggregating, and reporting the data on monitored parameters are verified through PPA and interactions with PP representatives. Procedure for data uncertainty, emergency preparedness, roles and responsibility, operational and management structure are mentioned in the MR is confirmed through interview with PP representatives and found satisfactory.
Compliance with the calibration frequency requirements for measuring instruments	Purchase Receipt, User Manual and Calibration certificates of weighing scale, moisture meters and thermometers used for WBT tests /11/	Calibration frequency and specifications (Sr. No., make, accuracy class) of weighing scale, moisture meters and thermometers used for WBT tests was verified through User Manual, calibration certificates, photographs of equipment's and found consistent. Responsibility of calibration and maintenance of equipment's is solely under control of PP.

Assessment Criteria	Means of verification/source documents	Assessment opinion
Assessment of data and calculation of emission reductions or net removals	i. Sample Survey Spreadsheet for Year 2019 and 2020 /6//7/ ii. ER Spreadsheet /5/ iii. Latest VCS verification report for last verification/2.1/	Values of monitoring parameters used in ER calculation are verified through the sampling survey records. Methods, formulae and ex ante parameters used for calculating emission reductions have been followed are in accordance with the applied methodology /14/ and as described in the previous approved VCS verification report/2.1/.

The verification team has also used documents such as approved CDM CPA Inclusion validation report/2.2/ and verification reports/2.1/ available publicly. Furthermore, the project activity already verified under VCS previously and currently undergoing periodic VCS verification. Hence, based on the information's available through approved documents (VCS verifications), it can be confirmed that project is implemented and being operated as described in the revised approved PD/1.1/.

The verification team has verified sufficient appropriate audit evidences, to reduce audit risk to an acceptably low level as requisite to achieve reasonable level of assurance for the current verification.

1.9 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and interview with onsite personnel. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and nonconformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- a) Non-compliance with the monitoring plan, the methodology or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient
- b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions

- d) Change to the key sustainable development indicators
- e) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable GS requirements have been met. All CARs and CLs raised by the verification team during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

All the findings that are raised and communicated to project participant during the verification are mentioned below –

CAR ID	01	Section no.	-	Date: 27-06-2020
Description of CAR				
- The date format in the MR is not consistent with the date format used in other sections of the MR. - The PP is requested to provide proof of first and last stove installed under this project. - The PP is requested to further elaborate the section 2.1 of the MR. - The PP is requested to provided following details in section 2.2. of the MR – - The mechanism for on-going communication with local stakeholders. - How due account of all and any input received during ongoing communication has been taken. Include details on any updates to the project design or justify why updates are not appropriate - The PP is requested clarify the information mentioned in section 2.3.2, whether is applicable for current monitoring period or not.				
Project participant response				Date: 02-07-2020
- Date format has been corrected in the revised MR in consistence with the MR template - Proof of first and last stove installed have been submitted to DOE - Section 2.1 has been rephrased in the revised MR - Relevant information has been included in Section 2.2 of the revised MR - Section 2.3.2 of the revised MR has been revised as per the relevant information applicable for current monitoring period				
Documentation provided by project participant				
Revised MR, version 02				
DOE assessment				Date: 04-07-2020
PP as response, have made the corrections in MR as per requirement of VCS-MR template. CAR is closed.				

CAR ID	02	Section no.	-	Date : 27-06-2020
Description of CAR				

1. The PP is requested to mention details equipment used to monitor the data/parameter including type, accuracy class, and serial number of equipment, as appropriate in section 4.2 of the MR.	
2. The PP is requested to provide supporting document for Spot-checks (ongoing) as mentioned under foot note 15 of the MR.	
Project participant response	Date : 02-07-2020
1. Details of the equipment used in the WBT have been included in section 4.2 of the revised MR.	
2. Supporting document related to Spot-checks have been submitted to DOE for further verification.	
Documentation provided by project participant	
Revised MR, version 02	
DOE assessment	Date: 04-07-2020
1. PP has revised the MR to include the details of equipment's used to conduct WBTs during the present monitoring period. This is consistent with the evidence provided by PP. CAR is closed.	
2. PP provided the emails and other communications related to the spot checks performed by on-site team during this monitoring period. CAR is closed.	

CAR ID	03	Section no.	-	Date : 27-06-2020
Description of CAR				
1. The PP is requested to explain why the section 5.2 and 5.3 is not applicable (i.e., do not delete the section from the final document and do not only write "not applicable")				
2. The PP is requested to mention year in section 5.4 of the MR.				
Project participant response				Date : 02-07-2020
1. Explanation of non-applicability of the sections 5.2 & 5.3 have been mentioned in the revised MR				
2. Necessary correction has been made in section 5.4 of the revised MR				
Documentation provided by project participant				
Revised MR, version 02				
DOE assessment				Date: 04-07-2020
1. PP has revised the MR to include the explanation about non-applicability of section 5.2 and section 5.3 of MR. CAR is closed.				
2. PP has revised the section 5.4 of MR to mention year of VCU as per MR template requirement. CAR is closed.				

2.5.1 Forward Action Requests

The project activity is undergoing periodic verification under VCS; there were no FARs raised during the previous verification. Also, no FAR is raised during the current verification.

1.10 Eligibility for Validation Activities

Not applicable. This is periodic verification of VCS project.

VALIDATION FINDINGS

1.11 Participation under Other GHG Programs

The project activity is registered under CDM with UNFCCC reference number POA 8521 (CPA reference number 8521-P1-0001-CP1) and renewable crediting period of 7 years from 01-January-2013 to 31-December-2019/15/.

Even though the project has been registered under the CDM and crediting periods under both programme (CDM & VCS) overlaps, but credits for the same GHG emission reductions under the VCS and the CDM have not been claimed by PP.

1.12 Methodology Deviations

There is no methodology deviation identified during the current monitoring period.

1.13 Project Description Deviations

There are 3 project deviation have been observed at the time of pervious monitoring period. The detailed description of the deviations are as follows-

1. PP required to do the multistage sampling as per the CDM registered PoA-DD, however it has been observed that the sampling frame has been changed from multi-stage sampling to simple random sampling. The proposed change is prescribed under Standard "Sampling and Survey for CDM project Activities and Programme of Activities"/22/. The project is implemented in Mexico and demographically it can be categorized as homogeneous region with reference to cooking habits and climatic conditions and the simple random sampling is suited for the homogeneous population as per the Guidelines for "Sampling and survey for CDM project activities and programmes of activities"/23/. The verification team confirms that the population of Mexico using cookstoves have been categorized as homogeneous and thus the simple random sampling is appropriate for the project. Also, since the simple random sampling is applied, the removal of secondary sampling unit is unlikely to lead to a reduction in the calculation accuracy of emission reduction.
2. At the time of registration of the project the number of cook stoves in the project activity was capped to 13,859. However, a deviation in change of number of cook stoves has been requested to increase the number to 31,178. It is noteworthy that the capped limit was estimated based on an adaption rate of 100% and an average efficiency of cookstove as 24%. But during the actual distribution of the cookstoves the lower than expected efficiency and also the adoption rate was

not able to make the project economically sustainable and survive over the years. Therefore, an increase in number of stoves has been requested by CME. As per the applied methodology type II category projects, the threshold limit for small scale project is 180 GWh thermal and this project activity comes under type II category projects. The verification team has verified that this deviation results in annual savings of 153.79 GWh in year 2019 and 152.79 GWh in year 2020, which is lower than the maximum limit of 180 GWh thermal/year. Therefore, the project activity continues to qualify as small-scale project.

3. The crediting period for this project was validated as 07-December-2012 to 06-December-2019 for the CDM registered PoA. However, for VCS issuance PP has requested to extend the crediting period to 31-December-2020 (10 years, Renewable twice). The extended crediting period is within the CDM crediting period and therefore accepted by previous VCS verification DOE. The verification team confirms that the change does not impact the additionality and the appropriateness of the baseline scenario.

1.14 Grouped Project

Not applicable. The project activity is not a grouped project.

VERIFICATION FINDINGS

1.15 Project Implementation Status

The project was implemented as described in the VCS-PD/1.1/ and CPA-DD/1.2/.

The project start date is 30-December-2009, which is the date of the first 3 ONIL stoves installation. Due to security problems in the region where these stoves were installed, these 3 stoves were not included in the ER calculations/5/. It was impossible to include them into the monitoring surveys. For those reasons they were excluded of the ER calculation. The oldest stoves included in the monitoring calculations are those installed since 05-April-2010. Verification team verified this situation by means of delivery receipts, invoices and other handwritten records, and the corresponding information in the database.

Year	Number of ICS installed	Number of ICS not considered due to safety reason	Final Number of ICS considered for ER calculation
2009	3	3	0
2010	4,361	0	4,361
2011	8,524	0	8,524
2013	3,883	0	3,883
2014	5,900	457	5,443
2015	4,067	651	3,416
2016	4,440	273	4,167
TOTAL	31,178	1,384	29,794

In order to account for certain northern regions of Mexico that are deemed unsafe due to local safety issues, therefore, at the end of the current monitoring period 29,794 ONIL Stove considered into accounting the ER estimates whereas actual no of 31,178 ONIL stoves have been distributed as part of this project. Stoves in this CPA were installed between 2009 and 2016. Verification team confirmed the same through registration database/8/.

Online interview with PP representatives of the project activity was carried out on 20-June-2020 by the verification team to check the implementation status of the project activity and the monitoring surveys conducted for the project activity. Project location was confirmed during the interview. Also, 11 ICS stove users have been interviewed to confirm the sampling survey results.

Interview of the personnel was conducted by the verification team, which revealed that all the QA/QC procedures listed in the revised VCS-PD/1.1/ have been followed while operating the project activity.

All parameters stated in the monitoring plan in revised VCS-PD/1.1/ and the applied methodology/14/ has been fulfilled in the current monitoring report. All baseline emission parameters have been verified and found satisfactory. The discussion regarding each parameter has been elaborated in the further section of this report.

PP will not claim the carbon credits under any other GHG emission reduction scheme (including CDM) for the present monitoring period under VCS and PP has provided declaration on the same during the validation. Hence, there is no possibility of double counting.

Verification team concludes the following:

- The implementation status of project activity was found to be in compliance with revised VCS-PD/1.1/ and CPA-DD/1.2/
- DOE has conducted the online interviews with PP representatives present onsite and ICS end users to confirm the implementation status of the project.
- The start date of the project activity was found to be accurately and consistently recorded.
- The actual operation of project activity was found to be following the flow diagram provided in CPA-DD/1.2/.
- The project is registered under VCS program with reference number 1216/13/ and CDM program with reference number POA 8521 (CPA reference number 8521-P1-0001-CP1)/15/

1.16 Safeguards

4.2.1 No Net Harm

There is no negative impact to any socio-economic conditions of the region due to the project activity. As per the revised VCS-PD/1.1/ and CDM CPA-DD/1.2/, it is confirmed that improved cook stoves saves wood fuel and presents positive environmental impacts in project region.

This project activity will not involve any negative environmental or socio-economic impacts, as distribution and installation of the fuel-efficient stoves. Hence no mitigation measures are required.

4.2.2 Local Stakeholder Consultation

Local Stakeholder consultations were done before registration of the project activity and validated by DOE during CDM validation of the project activity. No negative stakeholders' inputs received during this monitoring period as confirmed from PP.

1.17 AFOLU-Specific Safeguards

For non-AFOLU projects, this section is not required.

1.18 Accuracy of GHG Emission Reduction and Removal Calculations

The project activity has been monitored as per the monitoring plan mentioned in revised VCS-PD/1.1/ and CPA-DD/1.2/. All the deviations identified during the previous monitoring periods have been considered and implemented under the current monitoring period. The verification team confirms that the flow of information (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) is as per the monitoring plan mentioned in revised VCS-PD/1.1/ and CPA-DD/1.2/.

Data Collection Procedures -

There are several procedures for data collecting depending on the methodology applicable for each step of the project. The PP performed the following monitoring steps:

1. User registered stove - PP field personnel collected the information in the Registration Card from the users. Information was collected via a Registration Card filled by staff and partner organizations. The PP staff double-checked the accuracy of the information and requested clarifications if needed.
2. Data logged into database - PP trained staff inputted the information from the Registration Card into the database. PP staff checked the database records and removed duplicates (this included completing the serial number, checking for name duplicates, etc...).
3. Spot-checks (ongoing) - PP staff visited locations in the field and reported updates to office either via telephone or forms. PP personnel corrected the database and clearly marked stoves that were not installed, were given away, the end user died or left town, or had any other issues that made the stove no longer eligible to participate in the CPA. These stoves were excluded from the emission reduction calculations.
4. Monitoring - PP staff followed the sampling plan outlined in the CPA-DD/1.2/. Data was collected in the field through sampling surveys conducted in 2019/6/ and 2020/7/.
5. Preparation of monitoring report - PP prepared the final monitoring report and retained copies of the document.

Steps 1, 2 and 3 captured end user information and populated the database, as well as provided database quality control.

The assessment of each parameter identified in the project activity to calculate the GHG emission reductions have been done in the tables given below -

1. **Data/Parameter, Unit** Number of ONIL Stoves in operation during the monitoring period as determined by the monitoring survey. This includes total number of stoves distributed/installed in the entire CPA ($n_{y,i}$) , Quantity

	<i>Discussion and verification assessment</i>						
<i>Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)</i>	Not Applicable as the value of the parameter would be determined based on ONIL Stove registration data and data from monitoring surveys.						
<i>Measuring/Reading/Recording frequency</i>	Annually						
<i>Data collection (from data generation, aggregation, to recording, calculation and reporting)</i>	Total number of stoves in operation as: For Year 2019: 8,512 For Year 2020: 6,385 The PP has updated the information regarding the monitoring surveys which indicated issues with the monitoring practices which could potentially result in the monitoring survey showing higher operationality rate than actual in target sampled population. Earlier, the PP has considered 92.50% stoves in operation which was based on monitoring survey records. These monitoring records were submitted to the VVB team and were verified as part of verification assessments according to the relevant regulatory framework with regards to sampling and surveys. The verification, conducted in accordance with the rules and regulations that the VVB shall abide by, gave positive results and hence the PP's set of data was approved. However, as per the "Secondary Data" as per the document "44.03.05 Stoves in Operation - Verified Secondary Data (2024-08-05).xlsx", and result as stoves in operation percentage was 91.30%. Below is extra from document "44.03.05 Stoves in Operation - Verified Secondary Data (2024-08-05).xlsx" for LATAM region. <table border="1"> <thead> <tr> <th>Region</th><th>Project ID</th><th>Monitoring Period</th><th>Weighted Average</th></tr> </thead> </table>			Region	Project ID	Monitoring Period	Weighted Average
Region	Project ID	Monitoring Period	Weighted Average				

	LATAM	VCS 2077	MP1	100%
	LATAM	GS11213	MP1	93%
	LATAM	GS11212	MP1	93%
	LATAM	GS10457	MP1	87%
	LATAM	GS10457	MP2	83%
	LATAM	GS10457	MP3	79%
	LATAM	GS1321	MP1	92.39%
	LATAM	GS1321	MP2	97.13%
	LATAM	GS1321	MP3	97.27%
	Average Value			

This project was not part of the PP’s program Stove Champion and thus, there is not any primary data at PP’s side available for comparison, detection of potential overestimations and application of correction factors for the sake of conservativeness based on real primary data coming from the outcomes of this program. The PP thus, in absence of objective primary data to apply conservative correction factors has applied a most conservative measure approach and has assumed 0% as proportion of operational cookstoves for the year 2023.

The operational stove percentage was used to calculate annual deration (loss rate). The annual deration was then applied to calculate year wise stove operational rates as provided to VVB(refer: 20250125 VERRA 6.1 LATAM VCS 1216 Mexico Loss rate (Deration) & Usage rate).

The approach as per below :

	Vintage wise	Stove Operati onal rate	Loss rate	For VCS 1216
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	Year 2009		100%		Project start date in Yr 2009 (30- Dec - 2009)
	Year 2010	Year 01	92.86%	7.14%	
	Year 2011	Year 02	85.71%	7.14%	
	Year 2012	Year 03	78.57%	7.14%	
	Year 2013	Year 04	71.43%	7.14%	
	Year 2014	Year 05	64.29%	7.14%	
	Year 2015	Year 06	57.14%	7.14%	
	Year 2016	Year 07	50.00%	7.14%	Last ICS installed in 2016
	Year 2017	Year 08	42.86%	7.14%	
	Year 2018	Year 09	35.71%	7.14%	
	Year 2019	Year 10	28.57%	7.14%	MP06 period start under VCS
	Year 2020	Year 11	21.43%	7.14%	
	Year 2021	Year 12	14.29%	7.14%	

Year 2022	Year 13	7.14%	7.14%	
Year 2023	Year 14	0.00%	0.00%	
Year 2024	Year 15	0.00%	0.00%	

Based on above table; for this project and monitoring period (MP6), the calculation of usage rate has been based on linear loss rate. With a 0% usage rate assumption applied in the Year 2023 (under the most conservative approach) it result in an annual drop of 7.14% in usage rates by population each year starting from the first year of distribution when operationality is assumed to be 100%.

Furthermore, the PP has reviewed the registries of VCS, CDM & GS for additional information on the project's data for stove operational rate for Mexican projects and other LATAM countries (other than Guatemala). The details of the projects as available and the results are summarised below:

Vi nt a g e y e a r	Stove operational rate					
	VCS 1216	GS77 83	GS2 441	GS - 832	GS - 1028	CDM 9176
	(Mexi co)	(Mexic o)	(Mexi co)	(Brazil)	(Brazil)	(Hond uras)
Y e a r 0 2	85.71 % ² (Der ati on rate : 14.2 9%)	83.00 % (Derati on rate : 17%)	100 % (Der ati on rate : 0%)	89.00 % (Derati on rate : 11%)	86.00 % (Derati on rate : 14%)	87.00 % (Derati on rate : 13%)

² Note:With a 0% usage rate assumption applied in the Year 2023 (under the most conservative approach) it result in an annual drop of 7.14% in usage rates by population each year starting from the first year of distribution when operationality is assumed to be 100%, therefore, for year 2 , the 14.29% arrived as = 7.14 x 2, Hence, Stove operational rate for Year 2 = 100% - 2 x 7.14% annual drop = result as 85.71%.

	Y e a r 0 3	78.57 % (Der ation rate : 21.4 3%)	87.00 % ((Derat ion rate : 13%)		86.00 % (Derati on rate : 14%)	78.80 % (Derati on rate : 21.2%)	75.00 % (Derati on rate : 25%)
	Y e a r 0 4	71.43 % (Der ation rate : 28.5 7%)	84.00 % (Derati on rate : 16%)		77.33 % (Derati on rate : 22.67 %)	89.00 % (Derati on rate : 11%)	--
	Y e a r 0 5	64.29 % (Der ation rate : 35.7 1%)	80.00 % ((Derat ion rate : 20%)	88.0 1% ((Der ation rate : 11.9 9%)	74.33 % (Derati on rate : 17%)	82.50 % (Derati on rate : 17.5%)	--
	Y e a r 0 6	57.14 % (Der ation rate : 42.8 6%)	--		65.50 % (Derati on rate : 34.5%)	--	--
	Y e a r 0 7	50.00 % (Der ation rate : 50.0 0%)	--		56.00 % (Derati on rate : 44%)	63.00 % (Derati on rate : 37%)	--
	Y e a r 0 8	42.86 % (Der ation rate : 57.1 4%)	--	--	--	--	--

	Y e a r 0 9	35.71 % (Der ation rate : 64.2 9%)	--	--	--	--	--
	Y e a r 1 0	28.57 % (Der ation rate : 71.4 3%)	--	--	--	--	--
	Y e a r 1 1	21.43 % (Der ation rate : 78.5 7%)	--	--	--	--	--
The stove operational rate considered for the protect activity VCS 1216 for the current MP(MP06) as per deration rate are lower than the values of the secondary data projects provided in the table above and hence the values considered are conservative i.e. 28.57% (For Year 2019) & 21.43% (Year 2020) respectively. Furthermore, while comparing among the approaches as below. a) Initial MP survey operational rate. b) Secondary data c) Other projects data							
	Item	Initially (First Submissi on) based on Monitorin	Secondar y Data Based on 44.03.05 Stoves in Operation - Verified	Other Projects Data Based on “202501 25 VERRA 6.1	VBB Remark		

	g Survey records	Secondary Data (2024-08-05).xlsx	LATAM VCS 1216 Mexico Loss rate (Deration) & Usage rate"	
Percentage of stoves in operation in Year 2019	92.50%	91.30%	28.57%	Most conservatively for year 2019 , 28.57% has been considered.
Percentage of stoves in operation in Year 2020	92.50%	91.30%	21.43%	Most conservatively for year 2020 , 21.43% has been considered.
The ERs are estimated based on year-wise operational rate. Considering conservative approach obtained from sources above, it has been determined as for years 2019 (28.57%) and 2020 (21.43%) respectively. The changes are reflected and assessed in the revised verification report. The Monitoring report included the details the approach of deration that was employed and the conservativeness of value chosen for the stove operational rate in MR Sec 4.2 Based on this, calculations in the excel file" 20250125 VERRA 6.1 LATAM VCS 1216 Mexico Loss rate (Deration) & Usage rate"/24/ were reviewed and ERs for following vintages were found to be consistently reported:				

	Year 2019: $29,794 \times 28.57\% = 8,512$ Year 2020: $29,794 \times 21.43\% = 6,385$ Where 8,512 and 6,385 are the number of stoves distributed, and the percentages indicate the operability rate calculated based on linear deration rate. The value obtained from these surveys was further cross-checked against the similar projects in the Mexico & other LATAM countries Operational rate along with host country Mexico across different registries and the average stove operability rate is found to be 91.30% /25/. The value calculated for the ICS in operation has been correctly reported in the monitoring report/04/ and ER sheet/05/.
Verified value	For Year 2019: 8,512 For Year 2020: 6,385
Cross checks	The verified values as per registration database/8/ were crosschecked from the sampling survey results/7/.
QA/QC procedures applied	The parameter has been monitored appropriately, following a conservative approach. VVB has assessed deration rate calculations and cross-checked from other registered projects in LATAM to verify the appropriateness and conservativeness of the values applied by the PP, as discussed in above points. Thus, conservative assumptions have been used to determine this parameter. VVB has independently reviewed registered projects of the region. Therefore, the value reported for this project during the current monitoring period is found to be well within the range of other similar projects.

- 2. Data/Parameter, Unit** The fraction of ongoing baseline stove use within the population of in-use ONIL Stoves during a monitoring period. (SS_y), Fraction

	<i>Discussion and verification assessment</i>
<i>Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)</i>	Not Applicable as the value of the parameter would be determined based on data from monitoring survey.
<i>Measuring/Reading/Recording frequency</i>	Annually

<i>Data collection (from data generation, aggregation, to recording, calculation and reporting)</i>	The percentage of baseline stoves found to be still in operation based on the sampling plan in each monitoring period will be applied to the total number of stoves distributed/installed in this CPA (according to the ICS registration records in the monitoring database and the applicable sample frame) when calculating emission reductions. This is in line with the applicable methodology/14/ and approved monitoring plan as mentioned in CPA-DD/1.2/. The value of this parameter is 0.0750 which has been collected during the same survey for the fraction of $n_{y,j}$ (appliances in operation).
<i>Verified value</i>	0.0750
<i>Cross checks</i>	The verified values as per ER spreadsheet/5/ were crosschecked from the sampling survey results/7/.
<i>QA/QC procedures applied</i>	The necessary QA/QC procedures are in place and the data management system is effective and reliable.

- 3. Data/Parameter, Unit** If baseline stoves continue to be used, monitoring shall ensure that fuel-wood consumption of those stoves is excluded from B_{old} . (**$B_{old_adjusted}$**) in Tonnes/year

	<i>Discussion and verification assessment</i>
<i>Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)</i>	Not Applicable as the value of the parameter would be determined based on data from monitoring survey.
<i>Measuring/Reading/Recording frequency</i>	Annually
<i>Data collection (from data generation, aggregation, to recording, calculation and reporting)</i>	AMS-II.G. Version 3/14/, requires that monitoring ensures that (a) Either the replaced low efficiency appliances are disposed of and not used within the boundary or within the region; or (b) If baseline stoves continue to be used, monitoring shall ensure that the fuel-wood consumption of those stoves is prorated in B_{old}. Since the PP cannot require end users to dispose of stoves, option (b) is used and the wood used for any baseline stoves that continue to be in use was discounted from B_{old}. The baseline survey captured the number of households using a baseline stove in addition to the ONIL stove. The difference between the amount of wood used by

	households with a second baseline stove (2 stoves) and all households with an ONIL stove gives the amount of wood attributed to the use of the baseline stove. This amount is multiplied by the proportion of households using the 2 stoves and then subtracted from B_{old} .
Verified value	5.2809
Cross checks	The reported data was cross-checked during the interview with PP representatives, Registration database/8/ and also for ICS users interviewed which were randomly selected the data was found to be consistent to the surveys and monitored results/7/.
QA/QC procedures applied	The necessary QA/QC procedures are in place and the data management system is effective and reliable.

4. Data/Parameter, Unit Efficiency of the ICS ($n_{new,i}$), Fraction

	Discussion and verification assessment	
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Instrument	Other details
	Weighing Scale	Range: upto 5 kg ($\pm 2g$) Calibration facility: within the instrument with known weights Calibration frequency: once in three years Date of purchase: 06-July 2018 Validity of calibration till: 05-July-2021
	Digital Thermometer	Range: $-50^{\circ}C$ to $+300^{\circ}C$ ($\pm 1^{\circ}C$) Calibration frequency: once in three years Date of Calibration: 29-October-2018 Validity of calibration till: 29-October-2020
	Digital Moisture meter	Range: 2% to 70% ($\pm 0.5\%$) Calibration frequency: once in three years Date of purchase: 27-June-2018 Validity of calibration till: 26-June-2021
Measuring/Reading/Recording frequency	Annually	
Data collection (from data generation, aggregation, to recording, calculation and reporting)	Variable based on efficiency tests conducted during monitoring period. For stoves of different vintages, a weighted average of the different vintages and efficiencies (determined using the WBT version 3 or more recent version if available) will be used. This is in line with the applicable methodology/14/ and approved monitoring plan as mentioned in CPA-DD/1.2/. The value of the parameter has been taken from the WBT test (water boiling test 4.2.4 protocol published by the	

	Global Alliance for cook stoves) conducted over stoves samples of 2010, 2011, 2013, 2014, 2015 and 2016 vintage. The WBTs were conducted by trained staff from the Grupo Inter disciplinario de Tecnologia Rural Apropiada, A.C. (GIRA), a third party to the project.		
Verified value	Vintage	Efficiency	
	$\eta_{\text{new},2010}$	23.65%	
	$\eta_{\text{new},2011}$	23.79%	
	$\eta_{\text{new},2013}$	23.55%	
	$\eta_{\text{new},2014}$	23.94%	
	$\eta_{\text{new},2015}$	23.72%	
	$\eta_{\text{new},2016}$	23.44%	
Cross checks	The verified values as per ER spreadsheet/5/ were crosschecked from the sampling survey results/6/. Also checked the training records of monitoring personnel and WBT survey sheets filled by onsite staff during survey.		
QA/QC procedures applied	The necessary QA/QC procedures are in place and the data management system is effective and reliable.		

5. Data/Parameter, Unit Fraction of project's monitoring period the stove is in operation (weeks in operation/total weeks in monitoring period) ($t_{y,j}$), Fraction

	<i>Discussion and verification assessment</i>
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Not Applicable as the value of the parameter would be calculated.
Measuring/Reading/Recording frequency	Continuous
Data collection (from data generation, aggregation, to recording, calculation and reporting)	Dependent on date of purchase of stoves. Value = j days since installation/365 . This is in line with the applicable methodology/14/ and approved monitoring plan as mentioned in CPA-DD/1.2/. The value of this parameter is 1.0 which has been calculated in ER spreadsheet. Since, all the stoves were installed before the start date of this monitoring period.
Verified value	1.00

Cross checks	The verified values as per ER spreadsheet/5/ were crosschecked from the registration database/8/.
QA/QC procedures applied	The necessary QA/QC procedures are in place and the data management system is effective and reliable.

The above-mentioned parameter was measured in accordance with the revised VCS-PD/1.1/, CPA-DD/1.2/ and monitoring plan of the applied methodology/14/ as *ex-post*. The following parameters were directly taken from the CPA-DD/1.2/ to calculate the emission reduction as *ex-ante* fixed:

- Quantity of Biomass used in the absence of the project activity (per appliance) (B_{old}), Tonnes per annum:** The value was calculated to be 5.34 tonnes/annum. This parameter has been determined during the baseline study done at the time of validation by conducting a kitchen performance test. The value is consistent with the CPA-DD/1.2/, MR/4/ and the ER sheet /5/.
- Net to gross adjustment factor to account for leakage (L), Fraction:** The value of this parameter is 0.95 which was fixed at the time of validation. This value has been given as a default in the methodology/14/. The validated value is consistent with the MR/4/ and ER spreadsheet/5/.
- Efficiency of the system being replaced (η_{old}), Fraction:** The value of the parameter is 0.10 which is given in the para 6 of the applied methodology/14/. The value is consistent with the MR/4/ and ER sheet/5/.
- Fraction of non-renewable biomass saved by the project activity ($f_{NRB,y}$), fraction:** The value of this *ex-ante* parameter is 0.87. The value is estimated as per the applied methodology /14/. The validated value is consistent with the MR/4/ and ER spreadsheet/5/.
- Net calorific value of non- renewable biomass that is substituted ($NCV_{biomass}$), TJ/t:** The value of this *ex-ante* parameter is 0.015 TJ/tonne. This value has been given as a default in the methodology/14/. The validated value is consistent with the MR/4/ and ER spreadsheet/5/.
- Emission factor for the substitution of non-renewable biomass by similar consumers ($EF_{projected_fossilfuel}$), tCO₂/TJ:** The value of this *ex-ante* parameter is 81.6 tCO₂/TJ. This value has been given as a default in the methodology/14/. The validated value is consistent with the MR/4/ and ER spreadsheet/5/.

GHG Calculations:

The calculation of emission reduction has been done in accordance to the applied methodology/14/. The methodology does not calculate baseline and project emission separately. The equation used for calculation of emission reductions is given below:

$$ER_y = B_{y,savings} * f_{NRB,y} * NCV_{biomass} * EF_{projected_fossilfuel} * L$$

Where,

ER_y	=	Emissions reductions during the year in tCO ₂ e
$B_{y,savings}$	=	Quantity of woody biomass that is saved in tonnes
$f_{NRB,y}$	=	Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass (0.87)
$NCV_{biomass}$	=	Net calorific value of non-renewable woody biomass that is substituted (IPCC default value for fuel wood 0.015 TJ/tonne)
$EF_{projected_fossil_fuel}$	=	Emission factor for the substitution of non-renewable woody biomass by similar consumers. Use a value of 81.6 tCO ₂ /TJ
L	=	A net to gross adjustment factor (0.95 default) is applied above (equation (1) of AMS II.G, version 3) in order to adjust B_{old} to account for leakages as per paragraph 13 (a) of the methodology.

To calculate $B_{y,savings}$, PP used Option 2 of paragraph 6 of AMS II.G., version 3/14/ -

$$B_{y,savings} = B_{old} * (1 - \frac{h_{old}}{h_{new}})$$

Where:

B_{old}	Quantity of wood fuel used in the absence of the project activity in tonnes
η_{old}	A default value of 0.10 may be optionally used if the replaced system is a three stone fire, or a conventional system with no improved combustion air supply or flue gas ventilation system, i.e. without a grate or a chimney
η_{new}	Efficiency of the system being deployed as part of the project activity (fraction), as determined using the Water Boiling Test (WBT) protocol.

And

$$B_{y,savings} = B_{old,adjusted} * N_{y,i} - \frac{h_{old}}{h_{new,i}}$$

Where:

$N_{y,i}$	Total number of stores in operation for a full monitoring period equivalent in the project
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The assessment team checked the formula and calculation used for emission reduction calculations in the MR/4/ and ER sheet/5/ and found that it is in compliance with the registered CDM PoA-DD/1.3/, CDM CPA-DD/1.2/ and VCS-PD/1.1/. The appropriate methods and formulae

for calculating emission reduction have been followed and all assumptions and emissions factors were correctly applied.

According to the applied methodology, a net-to-gross adjustment factor of 0.95 to account for leakages is applied to calculate the emission reductions for the monitoring period.

Therefore,

Net Emission reductions = 19,234 tCO_{2e}

The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. All the data were made available and have monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emission calculation, is described above.

1.19 Quality of Evidence to Determine GHG Emission Reductions and Removals

The project activity under consideration consists of a well-defined management structure which ensures the quality of data monitored. The project monitoring system and reporting procedure are well managed by C-Quest Capital LLC. The project has a dedicated team comprising of the members having adequate experience in the said field of distribution of ICS and the roles and responsibilities towards the project operation and management are well structured. The project activity ensures the data acquisition and data processing system the manual logging procedure in the registration database. The project activity employs trained personnel as per the operational responsibility to conduct monitoring surveys and regular spot checks.

All the parameters used for the determination of the Emission Reductions are discussed in previous section of this report. All the data recorded are in compliance with the monitoring plan. During the interview with onsite personnel's the verification team interviewed implementation team as well as ICS end users for understanding the entire data flow system and ensures the robustness of the data corroboration procedure maintained by C-Quest Capital LLC.

The emission reduction calculation for the project activity is estimated based on the applicable monitoring methodology/14/. The verification team can ascertain that the values taken for emission reduction calculation are free from material errors.

1.20 Non-Permanence Risk Analysis

Not applicable for the project activity.

VERIFICATION CONCLUSION

LGAI Technological Center, S.A. (also referred to as Applus+ Certification), contracted by C-Quest Capital LLC, has performed the independent verification of the emission reductions for the VCS project activity (VCS ID- 1216) “Distribution of ONIL Stoves – Mexico, San Felipe Usila 1” in Mexico for the monitoring period 01-August-2019 to 31-May-2020 as reported in the Monitoring Report Version 02.2 dated 27-January-2025/4/. The C-Quest Capital LLC is responsible for the collection of data in accordance with the monitoring plan and reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity.

Applus+ Certification commenced the verification on the basis of the baseline and monitoring methodology AMS-II.G. version 03/14/, the monitoring plan contained in the approved revised VCS-PD /1.1/, CDM CPA-DD/1.2/, CDM POA-DD/1.3/, VCS Program Guide version 4.0/17/ and Monitoring Report Version 02.2 dated 27-January-2025/4/as per the process described under Section 2 of this report.

Applus+ Certification verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Applus+ Certification planned and performed the verification by obtaining evidence and other information and explanations that Applus+ Certification considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 01-August-2019 to 31-May-2020 are fairly stated in the Monitoring Report Version 02.2 dated 27-January-2025/4/. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology AMS-II.G. version 03/14/, and the VCS standard 4.0/16/.

Verification period: From 01-August-2019 to 31-May-2020(including both days)

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
Year 2019 (from 01-08-2019 to 31-12-2019)	11,021	0	0	11,021
Year 2020 (from 01-01-2020 to 31-05-2020)	8,213	0	0	8,213
Total	19,234	0	0	19,234

APPENDIX 1: DOCUMENT REFERENCES

S.No	Title of Document	Version	Date
1.1	Revised approved VCS-PD	4.0	02-12-2015
1.2	CDM CPA- 01 “Distribution of ONIL stoves- Mexico, San Felipe Usila 1” CPA-DD	15	23-11-2012
1.3	CDM PoA “Distribution of ONIL Stoves—Mexico” PoA-DD	15	23-11-2012
2.1	VCS Verification Report for third monitoring period from 01-08-2018 to 31-07-2019	2.0	20-12-2019
2.2	CDM CPA Inclusion Validation Report	03	03-12-2012
3.	VCS Monitoring Report (Draft)	01	04-06-2020
4.	VCS Monitoring Report (Final)	02.2	27-01-2025
5.	ER spread sheet (corresponding to the final monitoring report)	02.2	27-01-2025
6.	Sample Calculation Spreadsheet (for Sample size and precision calculation spreadsheet – prior to survey and after the survey) for Year 2019	-	-
7.	Sample Calculation Spreadsheet (for Sample size and precision calculation spreadsheet – prior to survey and after the survey) for Year 2020	-	-
8.	ICS registration database till end date of this MP (i.e. 31-05-2020)	-	-
9.	Copies of registration card for first and last stove distributed under this project	-	-
10.	Technical Specifications of ICS distributed (ONIL Stove)	-	-
11.	•Purchase receipts and User Manual of the weighing scale, moisture meters and thermometers used for WBT tests •Report of last Calibration of Weighing Scale, moisture meters and thermometers	-	-
12.	Sample copies of filled survey questionnaire during monitoring survey (2019 and 2020 survey)	-	-
13.	VCS webpage for the project, VCS ID 1216; https://registry.verra.org/app/projectDetail/VCS/1216	-	-
14.	“Energy efficiency measures in thermal applications of non-renewable biomass”, AMS-II.G.	03	15-04-2011
15.	CDM project webpage, CDM ID 8521(CPA 8521-P1-0001-CP1); https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/3NLVJQM5FYWDA604R2GCPS8ZOEIB9U/view	-	-
16.	VCS Standard	4.0	19-09-2019
17.	VCS Program Guide	4.0	19-09-2019
18.	CDM Project Standard for Project activity	02.0	29-11-2018
19.	CDM Validation and Verification Standard for Project activity	02.0	29-11-2018
20.	Records of training provided to the monitoring team and field / WBT survey team during this monitoring period	-	-
21.	Copies of records of Spot Checks performed during this monitoring period	-	-

22	Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities	03	-
23	Guidelines for Sampling Surveys in Project Activities and Programme of Activities	02	-
24	20250125 VERRA 6.1 LATAM VCS 1216 Mexico Loss rate (Deration) Usage rate	01	-
25	Spread sheet"44.03.05 Stoves in Operation - Verified Secondary Data dated 2024-08-05	01	-

APPENDIX 2: COMPETENCY STATEMENT

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed a project verification team in accordance with the appointment rules in the internal Quality Management System of Applus+ Certification.

The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Qualification	Coverage of scope	Coverage of technical Area	Financial aspect	Host country Experience	Attendance to the Assessment (remote)
Vivek Ahirwar	Lead Auditor (LA)	Yes (3)	Yes (3.1)	N/A	Yes	Yes
Vivek Ahirwar	Technical Expert (TE)	Yes (3)	Yes (3.1)	N/A	Yes	Yes
Simon Shen	Technical Reviewer (TR)	Yes (3)	Yes (3.1)	N/A	N/A	N/A

The curricula vitae of the DOE's team members are provided below:

Vivek Kumar Ahirwar is a BEE-Certified Energy Auditor by Govt of India with over eight years of relevant experience in energy efficiency, energy audit, thermal and electrical energy generation technology from renewable source and energy conservation in energy intensive industries, designated consumers and commercial buildings, implementation of energy conservation building codes, research, process and green building projects. He is a certified lead auditor for ISO 14001 EMS and 14064. He has experience under various categories of projects stating from renewable to waste to supercritical projects and WCD. He has successfully audited more than 100 GHG (CDM/VCS/GS) projects in different states across the India. He has done Master in Technology (Energy Management) from a premier institute, School of Energy & Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from Govt. Engineering college, Rewa, RGPV, India.

Simon Shen (master degree in thermal energy engineering, bachelor degree in environmental engineering) is a lead auditor appointed by Applus+ certification for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ certification, he had been worked for TÜV SÜD as a GHG validator/verifier and ISO 9001/14001 lead auditor for 3.5 years.