

Verification and certification report form for programme of activities

BASIC	INFORMATION
Title and GS4GG reference number of the	Improved Cooking Stoves in Bangladesh
programme of activities (PoA)	GS PoA Reference number: GS10833
Version number(s) of the PoA-DD(s) to which this report applies	Version 3.0; dated 01/09/2021
GS ID (s) of the VPAs	GS11488: Improved Cooking Stoves in Bangladesh – CPA No.20 "SZ Consultancy Services Ltd."
Version number of the verification and certification report	03
Completion date of the verification and certification report	28/08/2023
Monitoring period number and duration of	2 nd of the 1 st crediting period
this morning period	01/01/2022 to 31/12/2022 (Both days inclusive)
Version number of the monitoring report to which this report applies	Version 3.0 (Dated: 12/06/2023)
Activity Requirements applied	Community Services Activities
Product Requirements applied	GHG Emission Reduction & Sequestration
Coordinating/managing entity (CME)	SZ Consultancy Services Ltd. (SZCSL)
Host Country	People's Republic of Bangladesh
Applied methodologies and standardized baselines	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass - Version 11.1
Mandatory sectoral scopes	3: Energy demand
Conditional sectoral scopes, if applicable	Not applicable
Name and UNFCCC reference number of the VVB	E-0052: Carbon Check (India) Private Ltd.
Name, position and signature of the approver of the verification and certification report	Vixash L. Sis
	Vikash Kumar Singh, Compliance Officer



SECTION A. Executive summary

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Introduction:

The Co-ordinating Managing Entity/Project Participant has appointed the VVB, Carbon Check (India) Private Ltd. (CCIPL) to perform an independent verification of the GS Programme of Activities, "Improved Cooking Stoves in Bangladesh" (hereafter referred to as "Programme of Activities or PoA") for the VPA titled, "Improved Cooking Stoves in Bangladesh – CPA No.20 "SZ Consultancy Services Ltd."

The project involves dissemination and maintenance of high efficiency biomass (wood-fuel) fired improved cooking stoves in beneficiary SMEs/commercial units (tea stalls, street food vendors, small/medium restaurants, schools and hospitals etc.) in Bangladesh. The dissemination of Improved Cookstoves (ICS) replaces existing, less efficient traditional (wood-fuel) cookstoves/three stone fires used for cooking. The Project reduces GHG emission and particulate emissions (PM), thus enhancing health and the Indoor Air Quality of project beneficiary establishments, thereby achieving equivalent GHG emissions reductions in Bangladesh.

The VPA is designed to generate emission reductions by the distribution of high efficiency wood fuel ICS. The fuel-efficient cook stoves are replacing the less efficient baseline stoves in common use (baseline scenario). The CME and VPA implementer are responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the Voluntary project activity.

This report summarises the findings of the verification of the project, performed on the basis of paragraph 62 of the CDM Modalities & Procedures /B01-c/ and GS4GG requirements /B08/, as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the CDM Executive Board and Gold Standard. Verification is required for all registered GS project activities intending to confirm their achieved emission reductions and proceed with request for issuance of VERs. This report contains the findings and resolutions from the verification and a certification statement for the certified emission reductions.

Objective:

Verification is the periodic independent review and ex-post determination of both quantitative and qualitative information by a VVB of the monitored reductions in GHG emissions that have occurred as a result of the registered GS project activity during a defined monitoring period.

Certification is the written assurance by a VVB that, during a specific period in time, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and certify emission reductions reported for the "Improved Cooking Stoves in Bangladesh" in the host country People's Republic of Bangladesh for the period 01/01/2022 to 31/12/2022 (both days inclusive).

The purpose of verification is to review the monitoring results and verify that the monitoring was implemented according to the monitoring methodology and the monitoring plan in the PoA /VPA /B04/ and used to confirm that the reductions in anthropogenic emissions by sources, are sufficient, definitive and presented in a concise and transparent manner. CCIPL's objective is to perform a thorough, independent assessment of the implementation of the registered programme of activities / VPA-DD /B04/.

In particular, the monitoring plan, monitoring report and the project's compliance with relevant UNFCCC and host Party criteria are verified in order to confirm that the component project/s



has/have been implemented in accordance with the previously registered/included component project design and conservative assumptions, as documented. It is also confirmed if the monitoring plan is in compliance with the registered/included VPA-DD and the approved monitoring methodology.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered/included VPA-DD.
- To verify the implemented monitoring plan with the registered/included VPA-DD or approved revised VPA-DD and applied baseline and monitoring methodology.
- To verify that the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level
 of assurance about whether the reported GHG emission reduction data is free from material
 misstatement.
- To verify that reported GHG emission data is sufficiently supported by evidence.

The verification shall ensure that the reported emission reductions are complete and accurate, in order, to be certified.

The verification comprises a review of the monitoring report covering the monitoring period from 01/01/2022 to 31/12/2022 (both days inclusive) and based on the registered/included VPA-DD including the monitoring plan, emission reduction calculation spreadsheet, monitoring methodology and all related evidence provided by project participant.

The verification team assigned by the VVB concludes that the PoA (Version 3.0, dated 01/09/2021) /B04/, VPA 09 (Version 6.0 dated 23/02/2023) as described in the VPA-DD /B04/ and the monitoring report (version 3.0; dated 12/06/2023) /1/, meet all relevant requirements of the GS4GG requirements /B08/ and UNFCCC for CDM project activities including article 12 of the Kyoto Protocol and paragraph 62 of CDM M & P, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board and Gold Standard. The verification has been conducted in-line with the GS4GG requirements /B08/ and CDM VVS for PoAs requirements Version 03.0 /B01/.

The voluntary project activities were correctly implemented according to selected monitoring methodology, monitoring plan and the approved revised VPA-DD. The monitoring system was implemented, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on-site inspection and interviews, the verification team confirms that the PoA has resulted in 1,183,079 tCO₂e emission reductions during the second monitoring period of the first crediting period.

CCIPL, as a VVB, is therefore pleased to issue a positive verification opinion expressed in the Certification statement in section H of this document.



SECTION B. Verification team

B.1. Verification team, technical reviewer and approver

Carbon Check (India) Private Ltd. has appointed a competent team as per the UNFCCC Accreditation Standard, GS4GG requirements and CCIPL's internal procedures. Further details regarding team competence can be found in Appendix 2. The team is outlined below:

Sr. 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	Agarwalla	Sanjay Kumar	CCIPL
2.	Team Member	IR	Halder	Manas	CCIPL
3.	Technical Reviewer	IR	Chakraborty	Shivaji	CCIPL
4.	Approver	IR	Singh	Vikash Kumar	CCIPL

SECTION C. Application of materiality in conducting the verification

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to	As	sessment of the risk	Response to the risk in the
	material errors, omissions or misstatements	Risk level	Justification	verification plan and/or sampling plan
1.	Human Error: Recording and reporting of the information in the ER spreadsheet.	Medium	All the ER spreadsheet data of the stoves, including sales database, determination of parameter for efficiency testing including data calculation. This includes all the parameters to be monitored ex-post as per the PoA-DD/VPA-DD	The risk will be mitigated by reviewing the training of the personnel involved in the data capture, calculation and by following the monitoring responsibilities. The training records will be reviewed which will also be confirmed during the on-site visit interviews.
2.	Information System: Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability, security	Medium	The data is recorded in the spreadsheet based on the raw data collected during the field visits. The access to the spreadsheets for calculation of ERs, monitoring and sales database and baseline stove efficiency testing, and other quality test records.	The identified risk will be mitigated by reviewing the management of access to the records. It will be confirmed through interviews whether the raw data is collected by the field personnel and then transmitted and stored electronically to the CME/PAI's office. The data quality control to be checked.
3.	Accuracy of the measuring equipment	Low	Check the calibration records for the	The risk due to accuracy of the measuring equipment will be



			measurement equipment used for efficiency test.	ensured by planning to check calibration certificates of the measuring equipment used for stove efficiency (water boiling tests and Controlled Cooked Test).
4.	Sample	Medium	Sample size is not suitable; or the surveyed stoves at the project level are not random	Cross-check the procedure to identify the sample size against the sampling guideline and standard and confirm the sample size is calculated correctly.
5.	Competence of personnel involved in conducting standardized tests viz., monitoring survey, usage survey, and other quality test etc.	Medium	Interview of the personnel involved and check the training records / accreditation certificates involved in conducting such tests.	The risk will be mitigated by reviewing the training records of the personnel involved in conducting such tests and by following the monitoring responsibilities. For institutions involved in conducting such tests, their accreditation certificates will be checked to establish their competency. The training records and certificates will be reviewed which will also be confirmed during the onsite interviews.

C.2. Consideration of materiality in conducting the verification

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The threshold of materiality was evaluated based on §13 of "Guideline: Application of materiality in verifications" Version 02.0 and §306 of CDM VVS for PoAs, version 03.0 /B01/. It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 0.5 % of 1,183,079 tCO₂e/year, which is equal to 5,915 tCO₂e.

In planning the verification, the verification team took cognizance of §11 and 12 of the "Guideline: Application of materiality in verifications" Version 02.0. A materiality threshold of 5,915 tCO₂e is determined in line with §306 (d) of CDM VVS for PoAs, version 03.0 /B01-a/.

Based on the above, activities in which risks were assessed were:

- Monitoring system including the data input procedure (including relevant personnel and applicable template forms used)
- 2. Copy of the agreement between beneficiary and Project Participant (s) (origin of data)
- 3. Stove unique ID system
- 4. ER sheet (application of data)
- 5. Data flow
- 6. Data control procedures
- 7. Monitoring survey records
- 8. Stove efficiency test (WBT) records

In conducting the verification, VVB took cognizance of §13 of the "Guideline: Application of materiality in verifications" Version 02.0 and based on the input of data from different sources checked through sampling of records during on-site visit interviews. Data flow was checked through comparison of data in hand-written forms, electronic database and ER sheet /2/. The competence of the personnel involved in conducting the stove efficiency testing, recording of data and calculation



of the emission reductions data has been checked by the verification team by means of on-site visit interviews.

The risks identified can be mitigated through cross check with all sets of documents. The verification team performed the following checks in order to mitigate the effects of the above-identified sources of error:

<u>Mitigation of Human error risks:</u> The verification team mitigated the risk by checking the training records of the personnel and assessing their competencies, skills, monitoring / testing procedure followed, understanding of the monitoring survey form / WBT protocol and testing procedure etc. during the on-site visit interviews. Further, data was crosschecked with the ER calculation spreadsheet /2/ and the raw data.

<u>Mitigation due to error in Information system:</u> Verification team by conducting interviews with the personnel responsible for such activities mitigated the risk due to error in information system. It was confirmed through interviews that the raw data is collected by the field personnel and then transmitted and stored electronically at CME's office. The data quality control is maintained by the CME.

<u>Accuracy of the measuring equipment:</u> The risk due to inaccuracy in measurements was mitigated by reviewing calibration certificates of all the project equipment.

Competence of personnel involved in conducting standardized tests viz., WBT: Verification team has reviewed the abilities, qualifications and recognition of involved personnel and institutions of the measuring team involved in the WBT. The WBT has been carried out by the well-trained personnel and training certificate of the personnel has been provided to the verification team in this respect /5/. The training content /5/ has also been provided to the verification team. The verification team based on on-site visit interviews and review of competency documents and training records /5/ confirms that the team was qualified to carry out the WBT in line with the protocol.

<u>Mitigation due to error in Sampling:</u> The verification team mitigated the risk by checking the ER sheet /2/ for each VPAs, list of random samples /9/ generated for monitoring surveys for VPAs and sample size calculation sheet /2/ and interviews with personnel responsible for the same.

In conducting the verification, VVB took cognizance of §13-17 of the "Guideline: Application of materiality in verifications" (version 02.0) and based on the input of data from different sources checked through sampling of records during on-site visit interviews.

Based on the assessment carried out, CCIPL confirms with a reasonable level of assurance that the claimed emission reductions are free from material errors, omissions or misstatements.

SECTION D. Means of verification

D.1. Desk/document review

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The verification was performed primarily based on the review of the Monitoring report /1/ and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology /B02/. Documents reviewed or referenced during the verification are listed in Appendix 3 of this report.



D.2. On-site inspection

The verification team has carried out on-site inspection and interviews in order to assess the information included in the monitoring report and monitoring measurement procedures adopted during the monitoring period. During the desk review, the relevant monitoring records were checked. Previous periodic monitoring report and verification report, photographs of the instruments used for WBT, soft copy of original survey records and WBT records were used to cross check consistency of information.

Through the review of validation reports, previous verification reports, comparing the relevant evidence and interview with the CME's representatives, CCIPL has confirmed that the project is implemented in line with the PoA-DD / VPA-DD during the monitoring period. There is no change of the project design, operation and monitoring plan.

On-site inspection and interviews were performed by verification team in order to assess the following:

	On-site inspec	tion and intervi	ews: 08/04/2023	
No.	Activities performed on-site	Site location	Date	Team member
1.	Opening Meeting and brief project description by the PP; check the project data base / sales records / end user agreement for the total number of stoves distributed under the VPAs.	VPA implementer's office	08/04/2023	
2.	Compliance of Monitoring plan with the applied methodology and registered monitoring plan; project implementation and operation as per the PoA-DD/VPA-DDs.	VPA implementer's office	08/04/2023	
3.	Discussion on the monitoring survey and WBT process; review of QA/QC process (such as related to instruments utilized for carrying out such standardized tests for e.g., WBT) including interview/competency assessment (abilities, qualifications, training and recognition of involved personnel and institutions of the measuring team) of person/institution responsible for conduction of survey/WBTs; Review of monitored data, Discussion on Monitoring report and ER calculation spread sheets	VPA implementer's office	08/04/2023	Sanjay Kumar Agarwalla and Manas Halder
4.	Physical site visit (to check project implementation and operation and sample beneficiary from CME/PP's survey samples)	End user house visit	08/04/2023	
5.	Discussion on OSV findings and Closing meeting.	VPA implementer's office	08/04/2023	



D.3. Interviews

No		Interviewee		Date	Subject	Team
	Last name	First name	Affiliation	Date	Cabjoot	member
1.	Kumar	Ritesh	CSIPL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
2.	Subham	Saket	CSIPL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
3.	Gupta	Mohit	CSIPL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
4.	Khalequzza man	Md.	SZCSL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
5.	Sarkar	Animesh Kumar	SZCSL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
6.	Mridha	Ruman	SZCSL	08/04/2023	Project implementation and operation, monitoring procedure, data and information flow, Quality Assurance – Management and operating system, Monitoring records, MR and ER calculation	Sanjay Kumar Agarwalla and Manas Halder
7.	Hossain	Md. Kamal	SZCSL	08/04/2023	Discussion on the WBT process; review of	Sanjay Kumar



					QA/QC process (such as related to instruments utilized for carrying out such standardized tests for e.g., WBT) including competency assessment (abilities, qualifications and recognition of involved personnel and institutions of the measuring team) of person/institution responsible for conduction of WBTs	Agarwalla and Manas Halder
8.	Saha	Atanu Kumar	SZCSL	08/04/2023	Discussion on the WBT process; review of QA/QC process (such as related to instruments utilized for carrying out such standardized tests for e.g., WBT) including competency assessment (abilities, qualifications and recognition of involved personnel and institutions of the measuring team) of person/institution responsible for conduction of WBTs	Sanjay Kumar Agarwalla and Manas Halder
9.	Islam	Md. Hasibul	SZCSL	08/04/2023	Project implementation, sales/distribution records and database management.	Sanjay Kumar Agarwalla and Manas Halder
10.	Alam	Md. Ashraful	SZCSL	08/04/2023	Project implementation, sales/distribution records and database management.	Sanjay Kumar Agarwalla and Manas Halder
11.	Stove ID: TAM2-CNG- NAW-NAW- C-4	Ujjol	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
12.	Stove ID: RAZ-NAT- NAT-BAR- C-5	Sree. Shagor	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
13.	Mollah Stove ID: KHA-NAT-	Md. Uzzal	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder



	BAR-GOP-					
	C-2					
14.	Reja Stove ID: MIM4-CNG- SHI-DAI-C- 17	Md. Selim (brother)	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
15.	Mondol Stove ID: PAD-PAB- ISH-DAS-C- 9	Md Aurongojeb	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
16.	Stove ID: SHA-NAO- MAN-BHA- C-22	Ashraf	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
17.	Islam Stove ID: REZ-PAB- PAB-MAL- C-2	Md Johurul	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
18.	Alom Stove ID: JUK-NAO- MAN-PRA- C-63	Md. Sahin	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
19.	Islam Stove ID: SMD-CNG- SHI-NAY-C- 322	Md.Kholiul	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
20.	Haque Stove ID: SOP-PAB- ATG-EKD- C-1023	Md Mozammel	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder
21.	Miah Stove ID: YES1-NAR- ARA-GOP- C-294	Maruf	End user	08/04/2023	On-site monitoring survey	Sanjay Kumar Agarwalla and Manas Halder

D.4. Sampling approach

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As assessed in above sections, emission reductions for the VPA (GS11488) are being claimed for this monitoring period and the total population of the stoves under the VPA are as below:



SR. No.	VPA Reference No.	1 Pot	2 Pot
1	VPA 09 - GS11488	40,180	3,472

The monitoring parameters required to be monitored through the sampling plan are:

- 1. Efficiency of the system being deployed as part of the project activity (η_{new})
- 2. Number of operating ICS To determine only ICS that are still operating, measured ex-post through survey/ user feedback $(N_{y,i,j})$
- 3. Assessment of usage of baseline stoves along with ICS (to adjust B_{old} in case of simultaneous use of baseline stoves) (μ_{V})
- 4. Other SDG parameters HHS_{Project}, SPM_{Project}, ACS_{Project}, QE IG_{Project}, FC_{Project}

Stratified random sampling was applied by the CME for selection of the monitoring samples with 95/10 confidence/precision for VPA sampling for all the parameters which is deemed acceptable as per the PoA/ VPA. Stratified random sampling was applied separately for each sampling frame (1 Pot ICS and 2 Pot ICS). Each ICS within the sampling frame was assigned a sampling serial number, starting at 1 and increasing up to the total number of ICS in the sampling frame (1 Pot: 1 to 40,180; 2 Pot: 1 to 3,472). Random numbers were generated for each sampling frame and accordingly samples were selected. (1 Pot₂₀₂₁: 1 to 32,229, 2 Pot₂₀₂₁: 1 to 2,145, 1 Pot₂₀₂₂: 1 to 7,951, 2 Pot₂₀₂₂: 1 to 1,327). For the all the three monitoring parameters Efficiency of the system being deployed as part of the project activity (η_{new}), ICS Operation Fraction (SOF), and Assessment of usage of baseline stoves along with ICS, sampling frames were chosen for the type of stoves distributed, which is in line with the PoA-DD / VPA-DD.

As per paragraph 25 of the Sampling Standard, version 09 /B07/, the verification team has to verify whether the project participants or the coordinating/managing entity have implemented the sampling and surveys according to the sampling plan in the registered monitoring plan. The verification includes determining:

- (a) Whether the required confidence/precision has been met:
- (b) Whether the selected sample was representative of the population.

Monitoring was conducted for this monitoring period. The results of sampling surveys are verified by the VVB by using acceptance sampling during on-site interviews carried out on 08/04/2023.

In line with paragraph 26 of the Sampling Standard /B07/, the verification team has applied a sampling approach for on-site visits surveys as part of verification. Now as the CME had applied sampling approach, the verification team has chosen acceptance sampling in accordance with paragraph 28 of the sampling standard and accordingly steps listed in paragraph 29 of the sampling standard were followed.

VVB used sampling during verification for checking the operational status of the project stove and the continued use of baseline device. A sample size of 8 was chosen. A sample size of 8 was required, based on an AQL of 1% and UQL of 20 %, producer risk of 10 % and consumer risk of 20%. Acceptance number (c) thus determined for the samples is 0. VVB visited 11 samples. It was observed that out of the 11 samples, all 11 stoves were found to be operational and this matched with the CME's records and hence no discrepant records were observed with the MR /1/ and ER sheet /2/ and thus c=0. Thus, CME's set of records has been accepted in line with § 33 of the sampling standard, version 09 /B07/. Verification team has cross verified these sample documents during the on-site visit.

The sampling plan implemented by the CME is in accordance with the applied approved monitoring methodology /B02/ and the PoA-DD/VPA-DD /B04/. The CME has appropriately performed Sampling procedure in line with the applied methodology and PoA-DD / VPA-DD /B04/.



Verification team confirms that the end users have been selected at random and without any bias. Furthermore, based on review of the ex-post monitoring survey records /07/, the verification team confirms that the sampling survey covered end users covered in the VPA. Thus, the survey design covers the region of distribution of the population (within the geographical boundary) and is representative in nature.

The verification team thus confirms that the sampling plan ensures that:

- (a) The necessary confidence / precision of 95/10 each of the parameters is met.
- (b) Samples are randomly selected and are representative of the population.

This has been cross verified by the verification team from the supporting documents submitted.

SECTION E. Verification findings

E.1. General

E.1.1. Compliance of the monitoring report with the monitoring report form

Means of verification	Document Review, Interview
Findings	CAR 01 and CAR 02 had been raised and resolved successfully. Please refer to
	appendix 4 for further details.
Conclusion	CME has used the GS4GG template Monitoring Report, version 1.1 /B03-1/. Verification team confirms that the latest available version of the monitoring report template /B03/ has been used by the CME and the MR is in compliance with the monitoring report form and related template guide Monitoring Report, version 1.1 /B03-2/.
	This confirms compliance with the §336 and §337 of CDM VVS for PoAs, version 03.0 /B01/and GS4GG requirements /B08/.

E.1.2. Remaining forward action requests from validation and/or previous verifications

Two (02) FARs had been raised during GS4GG Design Review, which have been addressed during this verification. Please refer to appendix 4 for further details.

E.2. Programme of activities

E.2.1. Compliance of the programme implementation with the registered programme design document

Means of verification	Document Review, Interview
Findings	-
Conclusion	CCIPL by means of on-site interviews and document review, assessed that all physical features (technology, project equipment, and monitoring equipment) of the included VPA in the PoA /B04/ are in place and that the coordinating/managing entity has operated the PoA and the VPA as per the PoA /B04/ and the VPA /B04/.
	There are no deviations or proposed or actual changes in the implementation or operation of the PoA and the included VPA.
	The verification team confirms actual operation of the VPA and PoA implementation and operation in compliance with the PoA / CPA /B04/ in order to confirm the compliance of § 338, § 339 and § 340 of CDM VVS for PoAs, Version 03.0 /B01/ and GS4GG requirements /B08/.

E.2.2. Implementation and operation of the management system

Means of verification Document Review, Interview	
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Findings	-
Conclusion	The PoA management system including the record-keeping system has been explained in the PoA /B04/. During the course of verification, verification team based on review of provided documents and on-site interviews has assessed this management system. Verification team evaluated the management systems in place to implement the monitoring of the project activity. This included the roles and responsibilities of the monitoring staff, data collection, transfer and aggregation procedures, data storage and archiving procedure for the monitoring system.
	Monitoring surveys were conducted by in house team of SZCSL. The survey was a questionnaire-based survey and was conducted to collect feedback from sampled beneficiaries /6/.
	In order to ensure completeness and accuracy of monitoring information, electronic database is operated and maintained by the VPA implementer. This information is further maintained by the CME, who verifies the reported sales with the number of stoves produced by the manufacturer. The data is further periodically checked by the CME to ensure there is no double counting. All ICS distributed under each VPA have a unique ID, and the ICS owners have transferred ownership of carbon credits to CME via end user agreement. This provision for the avoidance of double counting as outlined in the PoA management system has been verified by means of review records of sales database and scanned copies of sales receipts in accordance with the end user agreement and were further confirmed during the site visit through an end user interview.
	It was confirmed during the on-site interviews and by checking the monitoring system that all the roles and responsibilities related to monitoring are fulfilled by representatives of CME and the VPA implementer.
	The responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the monitoring plan /B04/.
	The details about monitoring system have been provided in the Monitoring report /1/. The data flow and management and reporting structure was also checked during the on-site interviews.
	The verification team confirms that the monitoring management system of the GS PoA is in place, with the responsibilities properly identified and in place. This confirms the compliance of § 338 (a) and § 345 (b) (iv) of CDM VVS PoAs. Version 03.0 /B01/ and GS4GG requirements /B08/.

E.3. Voluntary project activities

E.3.1. Compliance of the VPA implementation with the included VPA design document

Means verification	of	Document Review, Interview	
Findings		CL 04 had been raised and resolved successfully. Please refer to appendix 4 for further details.	
Conclusion		The implementation status of the PoA and the Voluntary project activities is: Project Participants: SZ Consultancy Services Ltd. (SZCSL)	
		Title of PoA:	Improved Cooking Stoves in Bangladesh
		GS Reference No:	PoA ID: GS10833 VPA ID: VPA 09 - GS11488



Applied Baseline and monitoring methodology:	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1
Project Scale:	Small-scale
Location of the project activity:	Republic of Bangladesh
Reported monitoring Period verified in this verification:	01/01/2022 to 31/12/2022 (both days inclusive)

As a part of the on-site interviews, the verification team was able to confirm that the Programme of activities and the Voluntary project activity implementation are in accordance with the project description contained in the PoA and included VPA-DD /B04/.

The VPA include distribution of energy efficient improved cooking stoves. The VPA implementer is SZ Consultancy Services Ltd. (SZCSL). The portable improved cook stoves (ICS) under the VPA use wood as fuel. These ICSs are efficient in transferring heat from the fuel to the pot, thus saving wood fuel compared to the traditional stoves.

The number of stoves deployed under the VPA have been confirmed by the monitoring database and as stated below:

VPA	Total number of 1 Pot ICS	Total number of 2 Pot ICS
VPA 09 – GS11488	40,180	3,472

It was confirmed that SZ Consultancy Services Ltd. (SZCSL) is the Coordinating/Managing Entity for the PoA. The actual Voluntary project activity are in line with the VPA /B04/. SZ Consultancy Services Ltd. (SZCSL) is also the VPA implementer for the VPA.

The information (including data and variables) provided in the MR /1/ is in line with the details provided in the VPA /B04/.

CCIPL's verification team considers the project description of the project contained in the PoA and the VPA /B04/ to be complete and accurate. The VPA comply with the relevant methodology, tools, forms and guidance.

In accordance with §340 of CDM VVS for PoAs, version 03 /B01/, the verification team confirms that there is no information (data and variables) in the current monitoring period that are different from that stated in the approved revised VPA-DD which has caused an increase in the estimates of GHG emission reductions.

Verification team has assessed the project in order to check any proposed or actual changes to the project design in accordance with §267 of CDM VVS for PoAs, Version 03.0. In the opinion of CCIPL, there is no change to the project design. CCIPL's verification team confirms that the VPA are implemented within the boundary of the PoA as described in the PoA-DD.

In the opinion of CCIPL, there is no change to the project design. CCIPL's verification team confirms that the VPA are implemented within the boundary of the PoA as described in the PoA /B04/ and the implementation and operation of the project activity has been conducted in accordance with the description contained in the PoA and VPA.



The verification team took cognizance of § 338, § 339 and § 340 of the CDM VVS
for PoAs, version 03 /B01/ to conduct the verification and on-site interviews in
accordance with the § 319 and 320 of the CDM VVS for PoAs, version 03 /B01/ and
GS4 GG requirements /B08/.

E.3.2. Compliance of the registered monitoring plan with applied methodologies and standardized baselines

Manna of varification	Deciment Parious Interview
Means of verification	Document Review, Interview
Findings	-
Conclusion	The verification team is able to confirm that the monitoring plan contained in the VPA is in accordance with the approved methodology applied by the project activity, i.e., AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1 /B02/. The monitoring plan is in accordance with the approved methodology, AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1 /B02/, applied by the Voluntary project activities and as provided in the VPA /B04/.
	The verification took cognizance of § 341 to § 343 of CDM VVS for PoAs, Version 03.0 /B01/ and GS4GG requirements /B08/.

E.3.3. Compliance of monitoring activities with the registered monitoring plan

The monitoring has been carried out in accordance with the monitoring plan contained in the VPA /B04/. This conclusion has been made based on assessment below.

E.3.3.1. Data and parameters fixed ex ante or at renewal of crediting period

-	• ·
Means of verification	Document Review, Interview
Findings	
Conclusion	Verification team confirms that the Data and parameters fixed ex ante are in compliance with the VPA /B04/ and the monitoring plan. Please refer Appendix 5 for detailed analysis of the ex-ante parameters. The verification took cognizance of § 344 of CDM VVS for PoAs, Version 03.0 /B01/ and GS4GG requirements /B08/.

E.3.3.2. Data and parameters monitored

Means of verification	Document Review, Interview
Findings	CL 03 had been raised and resolved successfully. Please refer to appendix 4 for further details.
Conclusion	The Verification team confirms that the Data and parameters monitored are in compliance with the VPA and the monitoring plan /B04/. A complete assessment of each of the monitored parameters has been provided in Appendix 6 of the verification report. The verification took cognizance of § 344, § 345(b), §356 and §357 of CDM VVS for PoAs, Version 03.0 /B01/ GS4GG Requirements/B08/.

E.3.3.3. Implementation of sampling plan

Means of verification	Document Review, Interview
Findings	-
Conclusion	Monitoring surveys were conducted during the current monitoring period and the results are as follows: The total population of the stoves under the VPA considered for the monitoring period is 40,180 (1 Pot) and 3,472 (2 Pot). The monitoring parameters required to be monitored through the sampling plan are:



- 1. Efficiency of the system being deployed as part of the project activity (η_{new})
- 2. ICS Operation Fraction To determine only ICS that are still operating, measured ex-post through survey/ user feedback (SOF)
- 3. Assessment of usage of baseline stoves along with ICS (to adjust Bold in case of simultaneous use)

Stratified random sampling was applied for the VPA by CME for selection of the monitoring samples with 95/10 confidence/precision for the parameters for annual monitoring which is deemed acceptable as per the PoA /B04/ and VPA /B04/.

For the all the three monitoring parameters Efficiency of the system being deployed as part of the project activity (η_{new}), ICS Operation Fraction (SOF), and Assessment of usage of baseline stoves along with ICS, sampling frames were chosen for the type of stoves distributed, which is in line with the PoA-DD / VPA-DD.

Applying the random number generator, the ICS were randomly picked from the defined population up to the required sample size as calculated by the CME /9/. The verification team confirms that the applied method for sample size calculation is in accordance with the PoA-DD / VPA-DD /B04/.

The number of samples for each of the parameters covered during the monitoring activity is as given below:

Parameter	Sample Size (n) required
ηnew, 1 pot, 2021	7
ηnew, 2 pot, 2021	2
SOF ¹ ,1pot, 2021	32
SOF, _{2 Pot} , 2021	3
SOF,1 Pot,2022	8
SOF, _{2 Pot,2022}	2
µy1 Pot	40
Џу,2 Pot	4

The actual sample size in all the cases was not less than either the calculated sample size or the minimum sample size as per the PoA-DD /B04/, and this is deemed acceptable in line with the Standard for sampling and surveys for CDM project activities and Programme of Activities, version 09 /B07/.

For the monitoring parameters $N_{y,i,j}$ and μ_y data were collected following a specially designed survey form and for the monitoring parameter $\eta_{\text{new},i,j}$ WBTs were performed. The surveys and Water Boiling Tests on the sampled cook stoves were conducted during January 2023, meeting the annual monitoring frequency requirements.

The verification team has checked and found that for all the parameters the confidence/precision of 95/10 was met.

The sampling plan implemented by the CME is in accordance with the applied approved monitoring methodology /B02/ and the PoA-DD/ VPA/B04/. The CME has appropriately performed Stratified Random Sampling procedure in line with the applied methodology and best suited for this type of project. As the PoA /B04/ mentions the option for Stratified Random Sampling procedure, it is acceptable to the verification team.

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¹ SOF is used to determine N_{y,i,j} in conjugation with N_{installed}



The necessary confidence / precision of 95/10 each of the parameters is met. This has been cross verified by the verification team from the supporting documents submitted /2/.
The verification took cognizance of § 346 of CDM VVS for PoAs, Version 03.0 /B01/and GS4GG Requirements /B08/.

E.3.4. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	Document Review, Interview
Findings	-
Conclusion	The stove efficiency testing has been determined by the WBTs conducted by the SZCSL in-house trained staff having prior experience of conducting WBTs. WBTs were performed using 'The Water Boiling Test' protocol version 4.2.3, inline with the VPA-DDs /B04/ /10/. During the on-site interviews, it was confirmed that the staff conducting tests and surveys has relevant experience and competence in monitoring cookstove projects in Bangladesh. The monitoring equipment used for conducting the stove efficiencies by WBTs are thermometer, weighing machine and moisture meter. All the monitoring equipment were newly purchased and are under factory calibration at the time of use deemed acceptable /8/. The appropriate QA/QC procedures have been followed for the monitoring parameters. The verification took cognizance of section 10.2.6 of CDM VVS for PoAs, version 03 /B01/ and GS4GG requirements /B08/.

E.3.5. Assessment of data and calculation of emission reductions or net removals In line with the requirement of §356 and §357 of CDM VVS for PoAs, Version 03.0 /B01/, the verification team has reviewed the Monitoring report /1/ and ER spread sheets /2/ to check the arithmetic calculation of the emission reductions. The equation used for the calculation is compared with those provided in the VPAs /B04/ and the methodology, AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1 /B02/.

E.3.5.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	f [Document Review, Interview		
Findings	_			
Conclusion	r	The equations for emission reduction calculations, as provided in the Monitoring report /1/ and confirmed with the VPA /B04/ and the methodology, AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1 /B02/, are:		
	5	SDG 13: Climate Action		
		$ER_{y,i,j} = B_{y,savings,i,j} \times N_{y,i,j} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil\ fuel}$		
	١	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		
		$f_{NRB,y}$ Fraction of woody biomass that can be established as non-renewable biomass		
		$NCV_{biomass}$	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 64.4 t CO ₂ /TJ
	$N_{y,i,j}$	Number of project devices of type i and batch j operating during year y
	μ_y	Adjustment to account for any continued use of pre-project devices during the year y when applying equations 7 or 9 (fraction). Use 1.0 in other cases

 $B_{y,savings,i,j}$ is estimated using option 7 of the methodology AMS-II.G version 11.1.

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

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
η new,i,j	Efficiency of the device of each type i and batch j implemented as part of the project activity.
η _{old,i,j}	Efficiency of pre - project device, which is a three-stone fire using firewood (not charcoal), or a conventional device with no improved combustion air supply or flue gas ventilation, that is without a grate or a chimney
LAF_{y}	Net to Gross Leakage adjustment factor

From the above equation and the parameter values, emission reductions are calculated as:

Specific-case VPA reference number	Emission Reductions (tCO ₂ e) (Domestic)
VPA 09 – GS11488	1,183,079

The verification team confirms that the calculation of emission reductions is in accordance with the applied methodological equation and the VPA Calculations have been checked and confirmed from the ER spread sheet /2/.

The verification took cognizance of \S 356 of CDM VVS for PoAs, version 03.0 /B01/ and GS4GG requirements /B08/.

E.3.5.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	Document Review, Interview
Findings	-
Conclusion	There are no project emissions identified in the monitoring methodology /B02/ and the VPAs /B04/ and GS4GG requirements/B08/.



E.3.5.3. Calculation of leakage GHG emissions

Means of verification	Document Review, Interview
Findings	-
Conclusion	Net-to-gross adjustment factors for leakage (fixed default values of 0.95 as per AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1 /B02/ was applied to the project activity to calculate Emission Reductions of this Monitoring Period.
	Verification team confirms that all parameters are used correctly in the calculations, all results are verifiable and transparent, all assumptions are described and based on verifiable evidence and calculations are done in accordance with the predefined formulae from VPAs /B04/.

E.3.5.4. Summary of calculation of GHG emission reductions or net GHG removals by sinks

	<u> </u>
Means of verification	Document Review, Interview
Findings	-
Conclusion	The verification team confirms that all parameters are used correctly in the calculations, all results are verifiable and transparent, all assumptions are described and based on verifiable evidence and calculations are done in accordance with the pre-defined formulae from VPAs. The total number of ERs achieved during the monitoring period is 1,183,079 tCO ₂ e.
	In summary, verification team confirms that actual emission reduction is lower than the estimate of the VPA /B04/ for the current monitoring period. The verification took cognizance of § 356 of CDM VVS PoAs, version 03 /B01/ and GS4GG requirements /B08/.

Title and UNFCCC	Baseline emissions or baseline	Project emissions or actual net		GHG emission reductions or net GHG removals by sinks (tCO ₂ e)		
reference number of the VPA (MS1)	net GHG removals by sinks (tCO₂e)	GHG removals by sinks (tCO₂e)	Leakage (tCO₂e)	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013	Amount achieved in the entire monitoring period
VPA 09 – GS11488	1,183,079	-	-	0	1,183,079	1,183,079

E.3.5.5. Comparison of actual GHG emission reductions or net GHG removals by sinks with estimates in included VPA

Means of verification	Document Review
Findings	-
Conclusion	Comparison of the actual GHG emission reductions with the estimates in the included specific VPAs is given in the below table. The verification team took cognizance of § 356 of CDM VVS for PoAs, version 03 /B01/ and GS4GG requirements /B08/.



Title and UNFCCC reference number of the VPA	Actual values achieved by the VPAs during this monitoring period (tCO2e)	Value estimated in ex ante calculation in the included VPA-DD (tCO₂e)
VPA 09 – GS11488	1,183,079	1,654,985

E.3.5.6. Remarks on difference from estimated value in included VPA

Means of verification	Document review
Findings	-
Conclusion	The actual emission reductions are less than the ex-ante estimated values in the VPA-DDs.

E.3.6. Assessment of reported sustainable development co-benefits

Means of verification	Document Review, Interview
Findings	CL 02 had been raised and resolved successfully. Please refer to appendix 4 for
	further details.
Conclusion	The Verification team confirms that the data and parameters monitored related to sustainable development co-benefits are in compliance with the VPAs and the monitoring plan /B04/. A complete assessment of each of the monitored parameters has been provided in Appendix 6 of the verification report. The verification took cognizance of § 344, § 345(c), §356 and §357 of CDM VVS for PoAs, Version 03.0 /B01/ GS4GG Requirements/B08/.

SECTION F. Internal quality control

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The final verification report passed a technical review. A technical reviewer qualified in accordance with the CCIPL's qualification scheme for GS4GG validation and verification has performed the technical review.

SECTION G. Verification opinion

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Carbon Check (India) Private Ltd. has performed the second verification for the first crediting period of the GS Programme of Activities "Improved Cooking Stoves in Bangladesh" (hereafter referred to as "Programme of Activities or PoA") for the VPA, VPA 09 – GS11488.

The verification team assigned by the VVB concludes that the PoA (Version 3.0, dated 01/09/2021), VPA, VPA 09 – GS11488 as described in the VPA-DD/B04/ and the Monitoring report (Version 3.0, dated 12/06/2023) /01/, meet all relevant GS4GG requirements /B08/ and requirements of the UNFCCC for CDM project activities including article 12 of the Kyoto Protocol and paragraph 62 of CDM M& P, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification has been conducted in-line with the CDM VVS for programme of activities requirements version 03.0 /B01/.

Verification methodology and process:

The Verification team confirms the contractual relationship signed on 22/03/2023 between the VVB, Carbon Check (India) Private Ltd. and the Co-ordinating Managing Entity/ Project Participant, (SZCSL) /16/. The team assigned to the verification meets the Carbon Check (India) Private Ltd.'s internal procedures including the UNFCCC and GS requirements for the team composition and competence. The verification team has conducted a thorough contract review as per UNFCCC and Carbon Check's procedures and requirements.



The verification is being performed as per the requirements described in the CDM VVS for PoAs, version 03.0 /B01/ and GS4GG requirements and constitutes the review and completion of the following steps:

- Reviewing the PoA (Version 3.0, date 01/09/2021), the VPA 09 GS11488 /B04/, including the monitoring plan and the corresponding validation report/s /B04/;
- Previous GS4GG verification and certification reports and the monitoring reports for the previous monitoring periods /B09/;
- Desk review of the validation report, MR and other relevant documents including documents related to the project activities in emission reductions
- Review of the applied monitoring methodology (AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1);
- Review of any CMP and EB decisions, clarifications and guidance;
- On-site interviews (08/04/2023)
- Resolution of CARs and CLs raised during verification
- Issuance of Verification Report

The Voluntary project activities were correctly implemented according to the selected monitoring methodology, monitoring plan and the VPA. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on-site interviews, the verification team confirms that the PoA has resulted in the 1,183,079 tCO₂e emission reductions during the second monitoring period of first crediting period for VPA 09 – GS11488.

Verified emission reductions:

Specific-case VPA reference number	Emission Reductions (tCO ₂ e) (Domestic)
VPA 09 – GS11488	1,183,079

CCIPL as a VVB is therefore pleased to issue a positive verification opinion in the Certification statement given below.

SECTION H. Certification statement

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Carbon Check (India) Private Ltd., the VVB, has performed the verification of the GS Programme of Activities, GS 10833, "Improved Cooking Stoves in Bangladesh". The PoA involves replacement of less efficient cooking stoves using woody biomass with ICS which are more efficient. The ICS distributed under VPA of the PoA are more efficient in transferring heat from the fuel to the pot when compared to the stoves typically used in baseline. By replacing inefficient stoves, the PoA will save on consumption of woody biomass.

The Voluntary project activity of the Programme of Activities are designed to generate emission reductions by distribution of the fuel-efficient wood fuel-based cook stoves in Bangladesh. The CME and VPA implementer are responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the Voluntary project activity/ies. It is VVB's responsibility to express an independent verification statement on the reported GHG emission reductions from the component project/s. The VVB does not express any opinion on the selected baseline scenario or on the validated and registered PoA-DD/VPA-DD. The verification is carried out in-line with the CDM VVS and GS4GG requirements.

The verification was performed to identify the compliance of the component project/ies with implementation and monitoring requirements, and to verify the actual amount of achieved emission



reductions, through obtaining evidence and on-site interviews that included i) checking whether the provisions of the monitoring methodology and the monitoring plan were consistently and appropriately applied and ii) the collection of evidence supporting the reported data.

The verification is based on:

- PoA, Version 3.0 dated 01/09/2021;
- VPAs included in the PoA and its monitoring plan for the monitoring period 01/01/2022 to 31/12/2022 (both days inclusive).
- Approved CDM monitoring methodology, AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass, Version 11.1;
- Validation report /B04/ for the PoA and the VPA:
- Monitoring report Version 1.0 dated 24/03/2023, Version 2.0 dated 23/02/2023 and version 3.0 dated 12/06/2023

This statement covers verification period from 01/01/2022 to 31/12/2022 (both days inclusive).

The VVB has raised four (04) clarification requests and two (02) corrective action requests which have been resolved by the CME. No FAR has been raised.

The VVB considers necessary to give reasonable assurance that reported GHG emission reductions were calculated correctly on the basis of the monitoring methodology and the monitoring plan contained in the VPAs are fairly stated.

The VVB, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to 1,183,079 tCO₂e and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records.

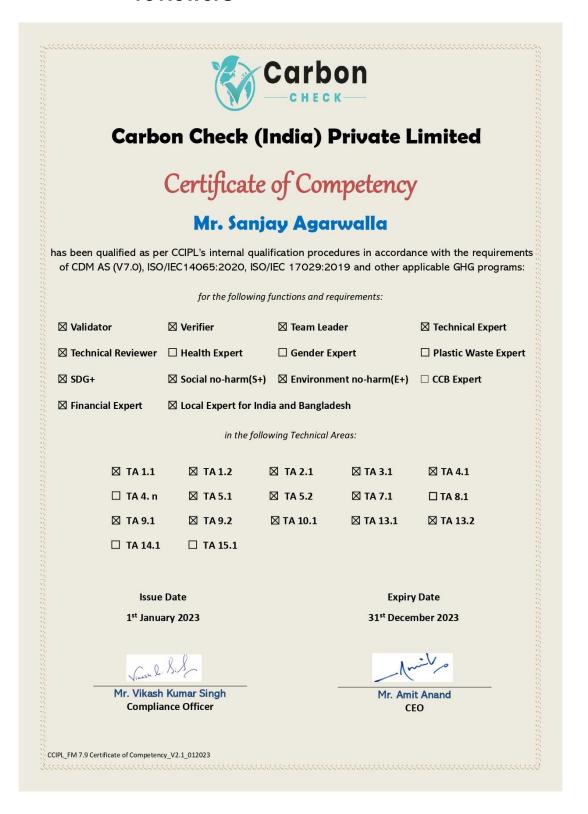


Appendix 1. Abbreviations

Appendix	
Abbreviations	Full texts
AQL	Acceptable Quality Limit
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CER	Certified Emission Reduction
CL	Clarification Request
CME	Co-ordinating and Managing entity
VPA	Voluntary Project Activity
VPA-DD	Voluntary Project Activity Design Document
CO ₂	Carbon Dioxide
CO₂e	Carbon Dioxide Equivalent
DR	Document review
DVR	Draft Verification Report
EB	CDM Executive Board
EF	Emission Factor
EI	External individual
FA	Final Approval
FAR	Forward Action Request
FVR	Final verification Report
GHG	Greenhouse gas(es)
GS4GG	Gold Standard for the Global Goals
GWh	Giga Watt Hour
1	Interview
IPCC	Intergovernmental Panel on Climate Change
IR	Internal resource
MP	Monitoring Period
MWh	Mega Watt Hour
MR	Monitoring Report
PoA	Programme of Activities
PoA-DD	Programme of Activities Design Document
PP	Project Participant
QC/QA	Quality control /Quality assurance
SDG	Sustainable Development Goal
SZCSL	SZ Consultancy Services Ltd.
TA	Technical Area
TR	Technical Review
TRF	Transition Request Form
UNFCCC	United Nations Framework Convention on Climate Change
UQL	Unacceptable Quality Limit
VVS	Validation and Verification Standard
VVB	Validation & Verification Body
WBT	Water boiling test



Appendix 2. Competence of team members and technical reviewers







Carbon Check (India) Private Limited

Certificate of Competency

Mr. Manas Halder

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:				
	for the following	functions and requ	irements:	
⊠ Validator	✓ Verifier	☐ Team Leade	r	☑ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Exp	ert	☐ Plastic Waste Expert
□ SDG+	☐ Social no-harm(S+)	☐ Environmen	t no-harm(E+)	☐ CCB Expert
☐ Financial Expert	☑ Local Expert for Inc	dia and Banglades	h	
	in the follo	owing Technical Are	as:	
☐ TA 1.1	⊠ TA 1.2	□ TA 2.1	⊠ TA 3.1	□ TA 4.1
☐ TA 4. n	□ TA 5.1	□ TA 5.2	□ TA 7.1	□ TA 8.1
☐ TA 9.1	☐ TA 9.2	□ TA 10.1	⊠ TA 13.1	□ TA 13.2
□ TA 14.1	☐ TA 15.1			95 25 25 25 25 25 25
Issue	Date		Expiry	Date
1 st January 2023			31st Decen	nber 2023
Times L. S.S.		_	_1/~	☐ TA 4.1 ☐ TA 8.1 ☐ TA 13.2 Date nber 2023 t Anand GO
Mr. Vikash Kumar Singh Compliance Officer			Mr. Ami CE	t Anand
CCIPL_FM 7.9 Certificate of Competen	cy_V2.1_012023			





Carbon Check (India) Private Limited

Certificate of Competency

Mr. Shivaji Chakraborty

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements: □ Validator □ Verifier ☐ Team Leader □ Technical Expert ☐ Health Expert ☐ Gender Expert ☐ Plastic Waste Expert ⊠ SDG+ ☐ CCB Expert □ Local Expert for India in the following Technical Areas: ☑ TA 1.1 ☑ TA 1.2 ☐ TA 2.1 ☑ TA 3.1 ☐ TA 4.1 ☐ TA 4. n ☐ TA 5.1 ☐ TA 5.2 ☐ TA 7.1 ☐ TA 8.1 ☐ TA 9.1 ☐ TA 9.2 ☐ TA 13.1 □ TA 13.2 ☐ TA 10.1 □ TA 14.1 ☐ TA 15.1 **Issue Date Expiry Date** 1st January 2023 31st December 2023 Vinash Q. S.S. Mr. Vikash Kumar Singh Mr. Amit Anand **Compliance Officer** CEO

CCIPL FM 7.9 Certificate of Competency V2.1 012023



Appendix 3. Documents reviewed or referenced

No. Author Title		openaix 3			D
a) "GS 11488 MP2 Monitoring Report v1.0 Version 1.0, dated 24/03/2023" b) "GS 11488 MP2 Monitoring Report Ver2.0 Version 2.0, dated 11/05/2023" c) "GS 11488 MP2 Monitoring Report Ver2.0 Version 3.0, dated 12/06/2023" c) "GS 11488 MP2 Monitoring Report Ver3.0 Version 3.0, dated 12/06/2023" e) "GS 11488 MP2 ER Calculation Sheet v1.0 Version 1.0, dated 24/03/2023" e) "GS 11488 MP2 ER Calculation Sheet v1.0 Version 1.0, dated 24/03/2023" e) "GS 11488 MP2 ER Calculation Sheet V1.0 Version 2.0, dated 11/05/2023" c) "GS 11488 MP2 ER Calculation Sheet Ver2.0 11052023" e) "GS 11488 MP2 ER Calculation Sheet Ver2.0 11052023" e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Ver3.0 11052023" e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11488 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11688 MP2 ER Calculation Sheet Version 2.0, dated 11/05/2023 e) "GS 11/05/	No.	Author	Title	References to the document	Provider
2403/2023	1	SZCSL	Monitoring report for first monitoring period:		CME
b) "GS 11488 MP2 Monitoring Report Ver2.0 Version 2.0, dated 1105/2023" c) "GS 11488 MP2 Monitoring Report Ver3.0 Version 3.0, dated 12062023" Version 2.0, dated 24032023" Version 2.0, dated 12062023 Version 2.0, dated 1105/2023 Version 2.0, dated 106/11/2022 Version 2.0, dated 106/11/2022 Version 2.0, dated 106/11/2022 Version 2.0, dated 106/11/2023 Version 2.0, dated 106/11			a) "GS 11488 MP2 Monitoring Report v1.0	Version 1.0, dated	
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			c) "GS 11488 MP2 Monitoring Report Ver3.0	Version 3.0. dated	
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22/03/2023					
			22/03/2023		



B01	UNFCCC	 a) Validation and Verification Standard for PoAs, version 03 b) Project Standard for PoAs, version 03 c) Modalities and Procedures (Annex of Decision 3/CMP.1 	http://cdm.unfccc.int/	Others
B02	UNFCCC	Applied baseline and monitoring methodology, "AMS-II.G, version 11.1 "Energy efficiency measures in thermal applications of non-renewable biomass"	http://cdm.unfccc.int/	
B03	GS4GG	 a) Template Monitoring Report, version 1.1 b) Template guide Monitoring Report, version 1.1 	www.goldstandard.org	Others
B04	GS4GG	Registered GS PoA-DD and VPA-DD and corresponding Validation Reports	www.goldstandard.org	Others
B05	Web sites	Websites: http://cdm.unfccc.int/ www.goldstandard.org	=	Others
B06	UNFCCC	Guidelines: Sampling and surveys for CDM project activities and programmes of activities (version 04.0)	http://cdm.unfccc.int/	Others
B07	UNFCCC	Standard: Standard for sampling and surveys for CDM project activities and Programme of Activities (version 09.0)	http://cdm.unfccc.int/	Others
B08	GS4GG	c) GS4GG "Principles & Requirements", version 1.2 d) GS4GG "Programme of Activity Requirements", version 1.2 e) GS4GG "Community Services Activity Requirements", version 1.2 f) GS4GG "GHG Emissions Reduction & Sequestration Product Requirements, version 2.0 g) GS4GG "Safeguarding Principles & Requirements", version 1.2	www.goldstandard.org	Others
B09	GS4GG	Monitoring Report and Verification Report of the previous monitoring period for the GS4GG PoA 10898	www.goldstandard.org	Others



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

Table 1. Remaining FARs from validation and/or previous verification

Remaining FARs from GS4GG design review:

FAR ID	01	Section no.	-	Date: 03/05/2023
Description	Description of FAR			
VVB shall veri	fy the sales and ICS in	stallation databa	ase (listing the country of install	ation of ICS) under the VPA.
CME respon	se			Date: 11/05/2023
The country of installation for the ICS has been specified in the ICS installation database submitted to VVB. Further, these ICS are fixed stoves, and their address (para/holding, village, union, upzila and district) is objectively verifiable to be in Bangladesh.				
Documentati	on provided by CME			
GS 11488 Co	mmercial ICS Sales Da	atabase ver3.0	11052023	
VVB assessment Date: 20/05/2023				
The verification team verified the sales and ICS installation database under the VPA, where the country of installation is specified as "Republic of Bangladesh" with full address of the users (i.e. where the ICS are located as these are of fixed type) for all ICS installed. This was also confirmed via interview with the project representatives and users of randomly selected ICS samples, applying acceptance sampling, during the physical site visit.				
FAR 01 is closed.				

FAR ID	02	Section no.	-	Date: 03/05/2023
Description	of EAR			

Description of FAR

VVB shall conduct the physical verification and confirm that the project area does not overlap with another Gold Standard or other voluntary or compliance standard program of a similar nature and there is no potential for double counting/misestimation of impacts.

CME response Date: 11/05/2023

The VVB conducted physical on-site verification to visit randomly selected ICS samples (applying acceptance sampling) to confirm that there is no potential of double counting. The concerned VPA consists of commercial ICS only, and no other carbon program in the host country has commercial ICS. The PP maintains a detailed database of each ICS installed under the VPA including information on the user, address, ICS serial number to ensure that it is counted only once, eliminating any scope for double counting.

The already existing VPAs under the same PoA (VPA 01-08) include some commercial ICS (total 4164 commercial ICS across all 8 VPAs) but they were installed in 2013-2014 and hence are completely exclusive of the concerned VPA which started with its first commercial ICS installation in Jan 2021.

During the on-site assessment, the VVB team also checked the presence of multiple commercial ICS units in the same establishment and confirmed that only one ICS per establishment has been reported in the database, thereby ensuring no-double counting/mis-estimation of the impacts.

Thus, the VPA does not overlaps with any other projects in the project area and there is no risk of double counting.

Documentation provided by CME

VVB assessment Date: 20/05/2023

Based on the 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 stoves, VVB confirms that there are no other such GS or other voluntary or compliance standard programs in the region where the project intervenes.

During the on-site inspection, multiple commercial ICS units in the same establishment were not observed.

Also, ICS units distributed under the VPA have a unique ID, and the stove owners have transferred ownership of carbon credits to VPA implementer via end user agreement. These were cross-checked against the sales database and scanned copies of stove purchase agreement and were further confirmed during the site visit through end user interview.

As a result, it can be confirmed that the project boundary is clearly defined, and the technologies counted in the project are not included in another voluntary market or CDM project activity, thus avoiding double counting.

FAR 02 is closed.

Remaining FARs from previous verification/GS4GG performance review:

Nil.

Table 2. **CAR** from this verification

CAR ID	01	Section no.	MR	Date: 03/05/2023
Description	of CAR			
			report, CME needs to complete	
			go, and without any other alt	
inconsistencie	es have been observed	d related to the	above throughout the monitoring	ng report. CME is requested
	d rectify those.			
CME respon	se			Date: 11/05/2023
Revised MR r	now follows the require	ments stated in	the GS4GG template guide fo	r monitoring report and all
			g report template version 1.1.	
Documentat	ion provided by CME			
GS 11488 MF	P2 Monitoring Report V	<u>/er2.0 11052023</u>	3	
VVB assessi	ment			Date: 20/05/2023
CME has rectified the formatting inconsistencies in the revised and updated monitoring report which is now in				
line with the GS4GG template guide for monitoring report version 1.1.				
CAR 01 stands closed.				

CAR ID	02	Section no.	MR	Date: 03/05/2023
Description	of CAR			
	CME is requested to provide update on design certification status of the project and update the 'Date of project design certification' in the KPI section of the MR as applicable.			
CME respon	se			Date: 11/05/2023
provided unde	Design certification of VPA was approved on 20/04/2023. 'Date of project design certification' has now been provided under KPI section of the MR. Documentation provided by CME			
GS 11488 MF	GS 11488 MP2 Monitoring Report Ver2.0 11052023			
VVB assessment Date: 20/05/2023				
CME has updated the 'Date of project design certification' in the KPI section of the MR.				
CAR 02 stands closed.				



Table 3. CLs from this verification

 CL ID
 01
 Section no.
 MR
 Date: 03/05/2023

Description of CL

The declaration of employment provided as supporting document for SDG 8 parameter QEIG_{Project} says "40 (15 female and 25 male) people employed as of 1st Jan 2023"; however, it is not clear as to how many of these 40 jobs were created before MP start date and relevant to the current monitoring period. Also, the MR reported a value of 25 for the monitored parameter QEIG_{Project}. CME is requested to provide appropriate clarification on this.

CME response Date: 11/05/2023

SDG 8, monitoring parameter pertains to number of persons hired under project and does not pertain to new jobs created by the project during the monitoring period. Any individual currently under employment (irrespective of the date of start date of their employment) with SZCSL is therefore deemed eligible to be counted and reported under SDG 8.

Also, the value of SDG 8 parameter QEIG_{Project} has been updated in the MR.

Documentation provided by CME

GS11488 MP2 ER Calculation Sheet Ver2.0 11052023

GS 11488 MP2 Monitoring Report Ver2.0 11052023

VVB assessment Date: 20/05/2023

The applied value of 40 for the monitored parameter QEIG_{Project} is consistent with approved VPA-DD, i.e., "Number of person (male and female) hired in Project". CME has also rectified the reported value of the monitored parameter (QEIG_{Project}) under SDG 8 in the revised MR. The verification team has found this appropriate and acceptable.

CL 01 stands closed.

 CL ID
 02
 Section no.
 MR
 Date: 03/05/2023

Description of CL

As per the approved VPA-DD, the monitored parameter $\eta_{\text{new},i,j}$ is to be reported under SDG 13, where in the MR, this parameter has been reported under SDG 15. CME is requested to justify this.

CME response Date: 11/05/2023

Reporting Data/Parameter $\eta_{\text{new},i,j}$ under SDG 15 was a typographical error. The monitored parameter $\eta_{\text{new},i,j}$ in the MR has now been made consistent with the approved VPA-DD and has been reported under SDG 13.

Documentation provided by CME

GS 11488 MP2 Monitoring Report Ver2.0 11052023

VVB assessment Date: 20/05/2023

CME has now reported the monitored parameter $\eta_{\text{new},i,j}$ in section D.2 of the revised MR under SDG 13 appropriately to be in line with approved VPA-DD.

CL 02 stands closed.

 CL ID
 03
 Section no.
 MR
 Date: 03/05/2023

Description of CL

As per the design certified VPA-DD, the length of crediting period is 5 years, renewable twice, comprising a total length of crediting period of 15 years, which is not clearly reflected in section A.4 of the MR. CME is requested to clearly mention the end date of current crediting period.

CME response Date: 11/05/2023

The length of crediting period has now been clearly stated under section A.4 of the MR. Also, the start and end date of the current crediting period (CP1) has been added in section A.4 of the revised MR.

Documentation provided by CME

GS 11488 MP2 Monitoring Report Ver2.0 11052023

VVB assessment Date: 20/05/2023

CME has now clearly and correctly mentioned start dates and end dates of the whole crediting period and the current crediting period in the revised MR.

CL 03 stands closed.



CL ID04Section no.ER spreadsheetDate: 03/05/2023

Description of CL

In section E.4 of the MR, the formulae shown to calculate net benefits for SDG 1 (HHS), SDG 3 (SPM), SDG 7 (ACS) do not align with the same to derive the corresponding values on 'SD Parameters Assessment' tab of the ER spreadsheet. CME is requested to clarify.

CME response Date: 11/05/2023

The formulae used to calculate net benefits for SDG 1 (HHS), SDG 3 (SPM), SDG 7 (ACS) in the 'SD Parameters Assessment' tab of the ER spreadsheet has now been made consistent with the formulae mentioned in section E.4 of the MR.

Documentation provided by CME

GS11488 MP2 ER Calculation Sheet Ver2.0 11052023

VVB assessment Date: 20/05/2023

CME has made the formulae used to calculated net benefits for SDG 1 (HHS), SDG 3 (SPM), SDG 7 (ACS) in the revised ER spreadsheet to be consistent with section E.4 of the MR and section B.6 of the approved VPA-DD.

CL 04 stands closed.

Table 4. FARs from this verification

Nil.



Appendix 5. Data and parameters fixed ex ante

SDG 13: Climate Change

Parameter	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 (Bold,i,j)
Data unit:	tonnes/user/year
Default values used:	59.66
Purpose of data	Baseline emissions calculation
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.

Parameter	Fraction of woody biomass saved by the project activity
	during year y that can be established as non-renewable
	biomass. (f _{NRB,y})
Data unit:	Fraction
Default values used:	0.843
Purpose of data	Baseline emissions calculation
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.

Parameter	Emission factor for fossil fuels projected to be used for
	substitution of non- renewable woody biomass by similar
	consumers (EF projected_fossilfuel)
Data unit:	tCO ₂ / TJ
Default values used:	64.4
Purpose of data	Baseline emissions calculation
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.

Parameter	Net to Gross Leakage Adjustment factor (LAF _y)			
Data unit:	Fraction			
Default values used:	0.95			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

Parameter	Efficiency of baseline device $(\eta_{old,i,j})$			
Data unit:	Fraction			
Default values used:	0.1087			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

Parameter	Net calorific value of the non-renewable woody biomass, briquettes or charcoal used in project devices (NCV _{biomass})			
Data unit:	TJ/tonne			
Default values used:	0.0156			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

SDG-1: No Poverty:

Parameter	% user reporting money saving due to reduced fuel					
	consumption in baseline (HHS _{Baseline})					
Data unit:	%					
Default values used:	0					
Purpose of data	Baseline emissions calculation					
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.					



Parameter	Access to Basic Services (Number of ICS distributed under			
	the baseline) (BSA _{Baseline})			
Data unit:	Number			
Default values used:	0			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

SDG 3: Good Health and Well Being

Parameter	% Users reporting reduction in smoke/PM emissions while			
	cooking on improved stove in baseline (SPM _{Baseline})			
Data unit:	%			
Default values used:	0			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

SDG 7: Affordable and Clean Energy

Parameter	Access to affordable and clean energy (% of operating ICS units under Baseline) (ACS _{Baseline})			
Data unit:	%			
Default values used:	0			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			

SDG 8: Decent Work and Economic Growth

Parameter	Quantitative Employment and income generation (Number of		
	person (male and female) hired under Baseline) (QE IG _{Baseline})		
Data unit:	Number		
Default values used:	0		
Purpose of data	Baseline emissions calculation		
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.		

SDG 12: Responsible Consumption and Production

SDG 15: Life on Land

Parameter	Average fuel consumption per user in Baseline (FCBaseline)			
Data unit:	tonnes/user/year			
Default values used:	59.66			
Purpose of data	Baseline emissions calculation			
Source and Verification of the source	The value of this parameter is fixed ex-ante /B04/.			



Appendix 6. Data and parameters monitored

SDG 13: Climate Change

Monitoring Parameter Requirement	Assessment/ Obse	rvation by the VVB		
Data / Parameter:	Assessment/ Observation by the VVB Number of project devices of type i and batch j			
(as in monitoring plan of VPA-DD):	operating during year y (
	$N_{\mathbf{v},\mathbf{i},\mathbf{j}}$			
Measuring frequency/Time Interval:	At least once every two years (biennial)			
Reporting frequency:	At least once every two years (biennial) At least once every two years (biennial)			
Reported value:	The same state of the years (Sionmar)			
'	ICS model Numbers			
	1 Pot, 2021	31,528		
	2 Pot, 2021	2,145		
	1 Pot, 2022	7,951		
		•		
	2 Pot, 2022	1,327		
Is measuring and reporting frequency in	Yes			
accordance with the monitoring plan and				
monitoring methodology? (Yes / No)	Color detabase and result	- via - via - via - via		
Details of monitoring equipment:	Sales database and monitor An electronic sales databa			
Is accuracy of the monitoring equipment as stated in the VPA-DD? If the VPA-DD does	for the project activity.	se has been maintained		
not specify the accuracy of the monitoring	l lor the project activity.			
equipment, does the monitoring equipment				
represent good monitoring practise?				
Calibration frequency /interval:	NA			
Is it monitoring methodology /CDM EB				
guidance / local or national standards /				
manufacturers specification				
Is the calibration interval in line with the				
monitoring plan of the VPA-DD? If the VPA-				
DD does not specify the frequency of				
calibration, does the selected frequency				
represent good monitoring practise? Company performing the calibration(internal	NA			
or external calibration):	IVA			
Did calibration confirm proper functioning of	NA			
monitoring equipment? (Yes / No):				
Is (are) calibration(s) valid for the whole	NA			
reporting period?				
If applicable, has the reported data been		er has been cross-checked		
cross-checked with other available data?		database and sample		
		ned copy records were also		
Here were the velves in the assettation was t	checked.			
How were the values in the monitoring report verified?	NA			
Does the data management (from data	Ves the data management	encures correct transfer of		
generation to emission reduction calculation)				
ensure correct transfer of data and reporting				
of emission reductions and are necessary				
QA/QC processes in place?				
In case only partial data are available because	NA			
activity levels or non-activity parameters have				



not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?

Monitoring Parameter	Assessment/ Observation by the VVB				
Requirement Data / Parameter:	Efficiency of the device of each type i and batch j implemented				
(as in monitoring plan of VPA-DD):	as part of the project activity ($\eta_{new,i,j}$)				
Measuring frequency/Time Interval:	Annual				
Reporting frequency:	Annual				
Reported value:	Maniferral				
	$\eta_{new,i,j}$	Monitored Value	Remar		
	$\eta_{new,1~pot,2021}$	0.3110	$\eta_{new,1}$	on monitored va pot,2021 (age 2)	
	$\eta_{new,2\ pot,2021}$	0.3155	$\eta_{new,2}$ p	on monitored va ot,2021 (age 2)	
	η _{new,1 pot,2022}	0.3144	and eff 1 ICSs	on rated efficie iciency loss for established in N with para 37 op	age //P1
	(C) o		Refer N	he methodology.	
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No) Details of monitoring equipment:	The stove efficiency testing has been determined by WBTs conducted in January 2023 in line with the guidance provided by the CME in the VPA-DDs /B04/ /10/. The monitoring equipment used for conducting the stove efficiencies by WBTs are digital thermometer, digital weighing scale, digital moisture meter. All the monitoring equipment were newly purchased and were under factory calibration at the time of use, so measurements were done with the necessary guarantees and hence deemed acceptable /8/. QA/QC procedures stated in MR comply with VPA-DD and the details of equipment used for conducting WBT is as follows:				
	Ed	quipment us	sed for c	onducting WE	ЗТ
	Specification	ns Dig		Digital Weighing Scale	Digital Moisture Meter
	Manufacture	er Nicety		AND	Octopass
	Model/Seria No.	al DT 131 Type	2 K-	FKS series	MD 814
	No. of units			1	1
	Accuracy	1°C		1g	1%
	Purchase da	te 27/01/2	2022	27/01/2022	27/01/2022



Is accuracy of the monitoring equipment as stated in the VPA-DD? If the VPA-DD does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise? Calibration frequency /interval:	VPA-DD does not specify the accuracy of the monitoring equipment (thermometer, mass balance and moisture meter). Verification team confirms that the accuracy of the monitoring equipment used represent good monitoring practice based on sectoral expertise. Monitoring equipment were newly purchased and were under
Is it monitoring methodology /CDM EB guidance / local or national standards / manufacturers specification	factory calibration at the time of use.
Is the calibration interval in line with the monitoring plan of the VPA-DD? If the VPA-DD does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	The exact calibration interval has not been provided in the VPA-DD and the monitoring equipment to be used by the surveyor are to be calibrated as per manufacturer guidance. However, since all equipment were newly purchased and were under factory calibration at the time of use, the selected frequency represents good monitoring practice.
Company performing the calibration(internal or external calibration):	NA. Equipment were newly purchased and were under factory calibration.
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	NA. Equipment were newly purchased and were under factory calibration.
Is (are) calibration(s) valid for the whole reporting period?	Yes, the calibration is valid for the whole monitoring period.
If applicable, has the reported data been cross-checked with other available data?	The data has been cross-checked with the WBT test documents /10/. For the stove efficiency parameter, WBT have been performed and this has been checked by the verification team with the related spreadsheet. Furthermore, the verification team has cross checked all the raw data input records in the WBT calculation spreadsheets including the calculation procedure for the sampled beneficiaries and found them to be correct. All the raw data forms for the WBT carried out for efficiency parameter were checked by the verification team and thus no sampling of data is required.
	Correctness of the stove thermal efficiency values were verified by the verification team based on the review of the WBT calculation spread sheet for correctness of calculations in line with WBT protocol, original test records and review of measuring equipment used during WBTs for calibration and accuracy.
How were the values in the monitoring report verified?	The reported data has been cross-checked against the raw data sheets for the WBTs and calculation sheets /10/ and compared with the ER sheet /02/ and the MR /01/.
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied	NA



or has a request for deviation been approved?

Monitoring Parameter Requirement	Assessment/	Observation by the VVB	
Data / Parameter:	Adjustment to account for any continued use of pro-		
(as in monitoring plan of VPA-DD):	project devices during the year y (µ _y)		
Measuring frequency/Time Interval:	Annual		
Reporting frequency:	Annual		
Reported value:			
	ICS model	Numbers	
	1 Pot	1.00	
	2 Pot	1.00	
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes		
Details of monitoring equipment:	Value obtained from records	Ex-Post Monitoring survey	
Is accuracy of the monitoring equipment as stated in the VPA-DD? If the VPA-DD does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise?	NA		
Calibration frequency /interval: Is it monitoring methodology /CDM EB guidance / local or national standards / manufacturers specification	NA		
Is the calibration interval in line with the monitoring plan of the VPA-DD? If the VPA-DD does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	NA. QA/QC procedi VPA-DDs.	ures stated in MR comply with	
Company performing the calibration (internal or external calibration):	NA		
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	NA		
Is (are) calibration(s) valid for the whole reporting period?	NA		
If applicable, has the reported data been cross-checked with other available data?		ta in MR has been compared with cords and the ER sheet /2/.	
How were the values in the monitoring report verified?	The values in the mo against the values in	onitoring report were compared ER sheet/2/	
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data manag data and reporting necessary QA/QC pr	ement ensures correct transfer of of emission reductions and all occesses are in place.	
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA		

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
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Data / Parameter:	Number of project devices distributed per		
(as in monitoring plan of VPA-DD):	SME/Institution (Nd)		
Measuring frequency/Time Interval:	Recorded at the time of installation of project devices		
Reporting frequency:	Recorded at the time of installation of project devices		
Reported value:	1		
Is measuring and reporting frequency in	Yes		
accordance with the monitoring plan and			
monitoring methodology? (Yes / No)			
Details of monitoring equipment:	Value obtained from internal records		
Is accuracy of the monitoring equipment as	NA		
stated in the VPA-DD? If the VPA-DD does			
not specify the accuracy of the monitoring			
equipment, does the monitoring equipment			
represent good monitoring practise?			
Calibration frequency /interval:	NA		
Is it monitoring methodology /CDM EB guidance / local or national standards /			
manufacturers specification			
Is the calibration interval in line with the	NA. QA/QC procedures stated in MR comply with		
monitoring plan of the VPA-DD? If the VPA-	VPA-DDs.		
DD does not specify the frequency of	V17(DD3.		
calibration, does the selected frequency			
represent good monitoring practise?			
Company performing the calibration (internal	NA		
or external calibration):			
Did calibration confirm proper functioning of	NA		
monitoring equipment? (Yes / No):			
Is (are) calibration(s) valid for the whole	NA		
reporting period?			
If applicable, has the reported data been	Yes, the reported data in MR has been compared with		
cross-checked with other available data?	monitoring survey records and the ER sheet /2/.		
How were the values in the monitoring report verified?	NA		
Does the data management (from data	Yes, the data management ensures correct transfer of		
generation to emission reduction calculation)	data and reporting of emission reductions and all		
ensure correct transfer of data and reporting	necessary QA/QC processes are in place.		
of emission reductions and are necessary	Thouseasty are we processes are in place.		
QA/QC processes in place?			
In case only partial data are available	NA		
because activity levels or non-activity			
parameters have not been monitored in			
accordance with the registered monitoring			
plan, has the most conservative assumption			
theoretically possible been applied or has a			
request for deviation been approved?			

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter:	LifeSpan
(as in monitoring plan of VPA-DD):	
Measuring frequency/Time Interval:	Recorded at the time of installation/commissioning of project device
Reporting frequency:	Recorded at the time of installation/commissioning of project device
Reported value:	Up to 7 years
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan and	
monitoring methodology? (Yes / No)	



Details of monitoring equipment:	Value obtained from Manufacturer specifications / national recognized agency certificate
Is accuracy of the monitoring equipment as stated in the VPA-DD? If the VPA-DD does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise?	NA
Calibration frequency /interval: Is it monitoring methodology /CDM EB guidance / local or national standards / manufacturers specification	NA
Is the calibration interval in line with the monitoring plan of the VPA-DD? If the VPA-DD does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	NA. QA/QC procedures stated in MR comply with VPA-DDs.
Company performing the calibration (internal or external calibration):	NA
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	NA
Is (are) calibration(s) valid for the whole reporting period?	NA
If applicable, has the reported data been cross-checked with other available data?	Yes, the reported data in MR has been compared with monitoring survey records and the ER sheet /2/.
How were the values in the monitoring report verified?	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter:	Date of commissioning of project device i
(as in monitoring plan of VPA-DD):	· , ,
Measuring frequency/Time Interval:	Recorded at the time of installation/commissioning of project device
Reporting frequency:	Recorded at the time of installation/commissioning of project device
Reported value:	Refer Date of Installation from Sales Database
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan and	
monitoring methodology? (Yes / No)	
Details of monitoring equipment:	Value obtained from ICS Installation database
Is accuracy of the monitoring equipment as	NA
stated in the VPA-DD? If the VPA-DD does	
not specify the accuracy of the monitoring	
equipment, does the monitoring equipment	
represent good monitoring practise?	
Calibration frequency /interval:	NA



Is it monitoring methodology /CDM EB guidance / local or national standards / manufacturers specification	
Is the calibration interval in line with the monitoring plan of the VPA-DD? If the VPA-DD does not specify the frequency of calibration, does the selected frequency	NA. QA/QC procedures stated in MR comply with VPA-DDs.
represent good monitoring practise?	
Company performing the calibration (internal or external calibration):	NA
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	NA
Is (are) calibration(s) valid for the whole reporting period?	NA
If applicable, has the reported data been cross-checked with other available data?	Yes, the reported data in MR has been compared with monitoring survey records and the ER sheet /2/.
How were the values in the monitoring report verified?	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place.
In case only partial data are available because activity levels or non-activity	NA
parameters have not been monitored in accordance with the registered monitoring	
plan, has the most conservative assumption	
theoretically possible been applied or has a request for deviation been approved?	

Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved		Units/ Products	Data source
13 Climate Action	Amount of CO2e emissions reduced by the project	1,183	,079	tCO₂e/VERs	The data is sourced from the ER calculation sheet for the monitoring period.
economic resources, as well as access to basic services, ownership and control over land and	households with access to basic services Indicator: Cumulative Number of ICS distributed under the project as an indicator of providing basic service access to	Pot 1 Pot 2 Pot	Value 40,180 3,472	Number	The data is sourced from the sales database



resources,				
appropriate new technology and financial services, including microfinance				
1 No Poverty 1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance		Pot Value 1 Pot 98.28 2 Pot 100	%	The data is sourced from the monitoring survey of samples
3 Good Health and Well Being 3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.	rate attributed to household and ambient air	Pot Value 1 Pot 98.28 2 Pot 100	%	The data is sourced from the monitoring survey of samples
services	7.1.2 Proportion of population with primary reliance on clean fuels and technology Indicator: % users reporting an operational ICS in project	Pot Value 1 Pot 98.28 2 Pot 100	%	The data is sourced from the monitoring survey of samples
8 Decent Work and Economic Growth	8.5.1 Average hourly earnings of female and male	Male25Female15	Number	



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	employees, by occupation, age and persons with disabilities Indicator: Number of male / female numbers of employment created by project			The data is sourced from the employment records.
12 Responsible Consumption and Production 12.2 By 2030, achieve the sustainable management and efficient use of natural resources	12.2.2 - Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP Indicator: Average % Fuel savings reported by users in the project	Pot % of fuel saving 1 Pot 65.14 2 Pot 65.71	%	The data is sourced from the monitoring survey of samples
15 Life on Land 15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally	15.2.1 Progress towards sustainable forest management Indicator: Wood fuel eq savings reported by user in the project	Pot Fuel saving 1 Pot 38.86 2 Pot 39.20	Tonnes / user / year	The data is sourced from the monitoring survey of samples

Furthermore, during on-site interviews it was confirmed that no disputes, inputs and comments have been received via the Continuous Input and Grievance Mechanism during the monitoring period.



APPENDIX 7. Assessment of Safeguarding Principles

Safeguarding Principles	Assessment Questions/ Requirements	How Project will achieve Requirements through design, management or risk mitigation.	Verification team assessment
Principle 1. Human Rights	1. The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights	The PoA and CME both respect human rights and are not complicit in violence or human rights abuses.	The PoA involves dissemination of improved cookstove which users are free to choose. This project is a voluntary action by the project developer and no risk and issues to the internationally proclaimed human rights are expected from this project. The PoA and CME both respect human rights and are not complicit in violence or human rights abuses. No mitigation measure required. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.1.1 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
	2. The Project shall not discriminate with regards to participation and inclusion	The PoA does not discriminate with regards to participation and inclusion	The PoA involves dissemination of improved cookstove which users are free to choose. There is no discrimination against any person or group regarding the possibility to buy a stove. No mitigation measure required. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.1.2 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
Principle 2. Gender Equality	3. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women (a) Sexual harassment and/or any forms of violence against women – address the multiple risks of gender-based violence, including sexual exploitation or human trafficking.	Not relevant	This is not relevant for the project activity.
	(b) Slavery, imprisonment, physical and mental drudgery, punishment or coercion of women and girls.	Not relevant	This is not relevant for the project activity.



(c) Restriction of women's rights or access to resources (natural or economic).	Not relevant	This is not relevant for the project activity.
(d) Recognise women's ownership rights regardless of marital status – adopt project measures where possible to support to women's access to inherit and own land, homes, and other assets or natural resources.	Not relevant	This is not relevant for the project activity.
Projects shall apply the principles of non-discrimination, equal treatment, and equal pay for equal work: (a) Where appropriate for the implementation of a PoA/VPA, paid, volunteer work or community contributions will be organised to provide the conditions for equitable participation of men and women in the identified tasks/activities.	Not relevant	This is not relevant for the project activity.
(b) Introduce conditions that ensure the participation of women or men in Project activities and benefits based on pregnancy, maternity/paternity leave, or marital status.	Not relevant	This is not relevant for the project activity.
(c) Ensure that these conditions do not limit the access of women or men, as the case may be, to PoA/VPA participation and benefits.	Not relevant	This is not relevant for the project activity.
4. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks	No gender risks are envisaged in the PoA	The PoA involves dissemination of improved cookstove which users a
		re free to choose. There are no gender risks envisaged during the dissemination of cookstoves. No mitigation measure required. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.2.3 of the GS4GG safeguarding principles requirements version 1.2 /B08/



	5. (where required) Summary of opinions and recommendations of an Expert Stakeholder(s)	Not relevant	This is not relevant for the project activity.
Principle 3. Community Health, Safety and Working Conditions	1. The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community	The PoA reduces exposure to indoor air pollutants and smoke levels, further reducing incidence of respiratory illness compared to cooking on traditional biomass stoves using solid biomass fuel.	The improved cookstove will help to improve the air quality by reducing air pollution and thus avoids community exposure to increased health risks. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.3.1 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
Principle 4.1 Sites of Cultural and Historical Heritage	1. Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture?	Not relevant	This is not relevant for the project activity.
Principle 4.2 Forced Eviction and Displacement	physical or economic relocation of peoples (temporary or permanent, full or partial)?	Not relevant	This is not relevant for the project activity.
Principle 4.3 Land Tenure and Other Rights	1. Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or access rights, usage rights or land ownership?	Not relevant	This is not relevant for the project activity.
Principle 5. Corruption	1. The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	The CME does not promote / or is complicit in direct or indirect corruption.	The PoA does not in any way promote or complicity corruption. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.5.1 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
Principle 6.1 Labour Rights	1. The Project Developer shall ensure that all employment is in compliance with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental conventions	The PoA does not involve any forced labour and the PP ensures that all employment is in compliance with local labour regulations and laws.	The PoA does not involve any kind of forced labour or compulsory labour. The verification team confirms that PoA fulfils the GS certification requirement outlined in the para 3.6.1 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
	2. Workers shall be able to establish and join labour organisations	The CME puts no constraints / limitation on employees to form a union.	The CME does not limit any of the employees to form unions or join labour organizations. The verification team confirms that PoA fulfils the GS certification requirement outlined in the para 3.6.1 of the GS4GG safeguarding principles requirements version 1.2 /B08/.



	 3. Working agreements with all individual workers shall be documented and implemented and include: a. Working hours (must not exceed 48 hours per week on a regular basis), AND b. Duties and tasks, AND c. Remuneration (must include provision for payment of overtime), AND d. Modalities on health insurance, AND e. Modalities on termination of the contract with provision for voluntary resignation by employee, AND f. Provision for annual leave of not less than 10 days per year, not including sick and casual leave. 4. No child labour is allowed (Exceptions) 	The CME's policies and employment contracts are compliant with the requirement The CME does not promote / or	The PoA does not involve any kind of forced labour or compulsory labour. The CME has submitted HR Policy & Employee Handbook and also Employee in this respect. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.6.1 (b) of the GS4GG safeguarding principles requirements version 1.2 /B08/.
	for children working on their families' property requires an Expert Stakeholder opinion)	is complicit in child labour	CME shall take adequate steps to ensure the age verification process is thoroughly carried out while recruitment. The verification team confirms that PoA fulfils the GS requirement outlined in the para 3.6.2 of the GS4GG safeguarding principles requirements version 1.2 /B08/.
	5. The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures	Not relevant	This is not relevant for the project activity.
Principle 6.2 Negative Economic Consequences	1. Does the project cause negative economic consequences during and after project implementation?	No negative economic consequences are deemed applicable	No negative economic consequences are deemed applicable. This is not relevant for the project activity.



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Principle 7.1 Emissions	Will the Project increase greenhouse gas emissions over the Baseline Scenario?	The PoA reduces GHG emissions relative to baseline scenario	The project involves dissemination of improved cookstove which will reduce GHG emissions compared to the baseline scenario. This is not relevant for the project activity.
Principle 7.2 Energy Supply	1. Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	The project will reduce fuel resource consumption instead	The improved cookstove does not use energy from local grid or power supply. The cook stove requires fuel wood as an energy source. The project will reduce fuel resource consumption. The verification team confirms that PoA fulfils the GS
			requirement outlined in the GS4GG safeguarding principles requirements version 1.2 /B08/
Principle 8.1 Impact on Natural Water Patterns/Flows	1. Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	Not applicable	This is not relevant for the project activity.
Principle 8.2 Erosion and/or Water Body Instability	1. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?	The PoA shall result in reduction in demand of biomass fuel in the region putting less pressure of forests for deforestation and will hence indirectly avoid erosion associated with tree cutting/felling.	The project involves dissemination of improved cookstove and does not in any way cause additional erosion and/or water body instability or disrupt the natural pattern of erosion. The PoA shall result in reduction in demand of biomass fuel in the region putting less pressure of forests for deforestation and will hence indirectly avoid erosion associated with tree cutting/ felling. The verification team confirms that PoA fulfils the GS requirement outlined in the GS4GG safeguarding principles requirements version 1.2 /B08/.
Principle 9.1 Landscape Modification and Soil	1. Does the Project involve the use of land and soil for production of crops or other products?	Not applicable	This is not relevant for the project activity.
Principle 9.2 Vulnerability to Natural Disaster	1. Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	Not applicable	This is not relevant for the project activity.



Principle 9.3 Genetic Resources	1. Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	Not applicable	This is not relevant for the project activity.
Principle 9.4 Release of pollutants	1. Could the Project potentially result in the release of pollutants to the environment?	The PoA reduces indoor air pollution relative to baseline scenario	The project involves dissemination of improved cookstove which will reduce indoor air pollution compared to the baseline scenario. This is not relevant for the project activity.
Principle 9.5 Hazardous and Non- hazardous Waste	1. Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	Not applicable	This is not relevant for the project activity.
Principle 9.6 Pesticides & Fertilisers	1. Will the Project involve the application of pesticides and/or fertilisers?	Not applicable	Not applicable
Principle 9.7 Harvesting of Forests	1. Will the Project involve the harvesting of forests?	The PoA does not involve harvesting of forests. The PoA shall result in reduction in demand of biomass fuel in the region putting less pressure of forests for deforestation and will hence indirectly avoid erosion associated with tree cutting/felling.	The PoA involves in the reduction of fuel wood consumption therefore it will positively support the forest resources. The verification team confirms that PoA fulfils the GS requirement outlined in the GS4GG safeguarding principles requirements version 1.2 /B08/.
Principle 9.8 Food	nutritional quality of food available such as through crop regime alteration or export or economic incentives?	Not applicable	This is not relevant for the project activity.
Principle 9.9 Animal husbandry	1. Will the Project involve animal husbandry?	Not applicable	This is not relevant for the project activity.
Principle 9.10 High	1. Does the Project physically affect or alter largely intact or High Conservation	Not applicable	This is not relevant for the project activity.



Conservation Value Areas and Critical Habitats	Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	
Principle 9.11 Endangered Species	Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? AND/OR Does the Project potentially impact other areas where endangered species may be present through transboundary affects?	This is not relevant for the project activity.

APPENDIX 8: Gold Standard Verification Protocol

CCIPL's Checklist question	Ref.	MoV ²	Findings, comments, references, data sources	Draft conclusion	Final conclusion
1. Sustainability Monitoring					
1.1 Have all non-neutral indicators been monitored as per the sustainability monitoring plan?	/1/	DR,	Yes, all the non-neutral indicators have been monitored as per the sustainability monitoring plan.	ОК	ОК
1.2 Have the methods to monitor data changed? And are they suitable to the project scale and type?	/1/	DR	Methods to monitor data have not changed as compared with the monitoring plan in the registered passport and monitoring plan.	ОК	ОК

² MoV = Means of Verification, DR = Document Review, I = Interview, www = internet search.

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CCIPL's Checklist question	Ref.	MoV ²	Findings, comments, references, data sources	Draft conclusion	Final conclusion
1.3 Has the way of monitoring been followed? With the inclusion of dates and parameters?	/1/	DR	The sustainability monitoring plan has been followed as per described in the Passport.	ОК	OK
1.4 Have mitigation measures been put in place to prevent the risk of the violation of the safe guarding principle of "Do No Harm" assessment or to neutralise a Sustainable Development Indicator that is being monitored?	/1/	DR	The mitigation measures have been put in place that has been put in records as a proof of the same. Several supporting documents as listed under Appendix 3 have been provided. Also, the on-site interview of the beneficiaries and interviews of the trained personals of PP were performed during on-site interview.	ОК	ОК
1.5 Has all the data in the Sustainability development matrix been verified and cross checked against available sources of project data? Has it been described how sustainable development would be affected if a variance occurred?	/1/	DR and on-site interview	Yes, all data in the sustainability development matrix have been verified and cross checked from the supporting documents and during onsite audit.	ОК	ОК
2. Other					
2.1 Are there any issues from the previous validation/verification? (ie FARs, requests / approvals for RMP)	/1/ /B04/	DR	Two (02) FARs were raised during GS4GG Design Review which are addressed during this verification. Please refer to Appendix 4 for further details.	ОК	ОК
2.2 Has the project ever received any requests for reviews or incompletes from the UNFCCC or GS Secretariat?	/1/ /B04/	DR	No there are no request for reviews or incomplete for the project.	ОК	ОК
2.3 The evaluation of the status of mitigation and compensation measures has been verified.	/1/ /B04/	DR	Yes, the status of mitigation and compensation measures has been verified.	ОК	OK