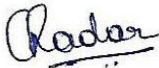


Verification and certification report form for GS project activities

BASIC INFORMATION

Title and GS reference number of the project activity	SAMARTH – Empowering lives through clean technology GS REF # GS11945	
Scale of the project activity	☐ Large-scale ☒ Small-scale	
Version number of the verification and certification report	4	
Completion date of the verification and certification report	16/09/2025	
Monitoring period number and duration of this monitoring period	Monitoring period, No.: 1 Duration: 20/01/2023 to 31/07/2024 (inclusive of both dates)	
Version number of the monitoring report to which this report applies	06	
Crediting period of the project activity corresponding to this monitoring period	20/01/2023 – 19/01/2028	
Project participants	Udaipur Urja Initiatives Producer Company Limited	
Host Party	India	
Applied methodologies and standardized baselines	REDUCED EMISSIONS FROM COOKING AND HEATING: Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC), version 4	
Mandatory sectoral scopes	Sectoral Scope 3	
Conditional sectoral scopes, if applicable	NA	
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the validated PDD	SDG	Ex-ante Estimation
	SDG 13	Reduction of 50,196 tCO ₂ by using ICS
	SDG 3	100% HHs report reduction in indoor air pollution
	SDG 5	At least 25% reduction in time taken for cooking and fuelwood collection
	SDG 7	18,000 households ICS distributed (@ 2 stoves/family)
	SDG 8	At least 5 jobs created

Certified amount of GHG emission reductions or GHG removals for this monitoring period	<table border="1"> <thead> <tr> <th>SDG</th><th>Actual achieved values</th></tr> </thead> <tbody> <tr> <td>SDG 13</td><td>Reduction of 30,555 tCO₂ by using ICS</td></tr> <tr> <td>SDG 3</td><td>99% HHs experience reduction in indoor air pollution</td></tr> <tr> <td>SDG 5</td><td>41% reduction in time taken for cooking and fuelwood collection</td></tr> <tr> <td>SDG 7</td><td>8,000 households provided with 2 ICS/family</td></tr> <tr> <td>SDG 8</td><td>94 jobs created</td></tr> </tbody> </table>	SDG	Actual achieved values	SDG 13	Reduction of 30,555 tCO ₂ by using ICS	SDG 3	99% HHs experience reduction in indoor air pollution	SDG 5	41% reduction in time taken for cooking and fuelwood collection	SDG 7	8,000 households provided with 2 ICS/family	SDG 8	94 jobs created
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SDG 7	8,000 households provided with 2 ICS/family												
SDG 8	94 jobs created												
Name of the VVB	4K Earth Science Private Limited												
Name, position and signature of the approver of the verification and certification report	Chandrakala R  Managing Director												

SECTION A. Executive summary

4K Earth Science Private Limited (4KES) has been commissioned by “Udaipur Urja Initiatives Producer Company Limited” to perform an independent verification of its validated GS VER project “SAMARTH – Empowering lives through clean technology”, GS Ref # GS11945 for the reported GHG emission reductions for the given monitoring period 20/01/2023 to 31/07/2024 (inclusive of both dates). The GS VER projects must undergo independent third-party verification and certification of emission reductions as the basis for issuance of Verified Emission Reductions (VERs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the validated PDD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The actual monitoring systems & procedures and monitoring report conforms with the requirements of the approved monitoring plan and the approved monitoring methodology;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.

Scope:

The scope of the verification is the independent and objective review and ex post determination of the monitored reductions in GHG emission by the project activity. The verification is based on review of monitoring report, supporting information and

- (a) The GS PDD (under validation)
- (b) The approved methodology mentioned in the GS PDD
- (c) The validated monitoring plan
- (d) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board
- (e) Applicable Gold Standard tool kit
- (f) GS Validation and Verification Standard (VVS)
- (g) All information and references relevant to the project activity's resulting in emission reductions
- (h) Information related to monitoring of SDG parameters

The project is assessed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures and related rules and guidance.

4KES has based on the recommendations in the latest version of GS Validation and Verification Standard/26/, employed a rule-based approach in the verification, focusing on the identification of significant reporting risks and the reliability of project monitoring.

Description of project:

The project activity is the distribution of improved cook stoves (ICS) for single households in all the Tehsils of Udaipur District in Rajasthan State, India. The improved cook stoves are higher efficient than the baseline traditional cook stoves. Due to the higher efficiency, the improved cook stove reduces the usage of non-renewable biomass in cooking and thereby, it avoids the related CO₂ emission from the use of non-renewable biomass.

Methodology:

4KES follows a rule-based verification approach, wherein, as a first step, the contract review is undertaken as per latest version of GS principles & requirement and Applied GS methodology. Subsequently, after the contract is signed, the Gold Standard Verification work plan of the project activity is made available at Gold Standard registry in accordance with Gold Standard rules.

A desk review of the project documentation is undertaken, which is followed by an onsite visit and interviews by the members of verification team. The verification protocol is filled by the verification team that is based on standard auditing practices and latest version of CDM VVS, to capture the assessment of applicable CDM & GS requirements viz., latest version of CDM Project Standard, applicable GS rules & requirement, validated GS-PDD applied methodology/ies and/or tools and recent decisions. The verification protocol provides transparent means to record the observations and compliances by the verification team members and the

nonconformities (CARs/CLs), if any. The verification protocol is an internal document, and is available on request. After successful closure of findings (CARs/CLs), the draft verification report is prepared which went through Independent technical review as per 4KES internal procedures and the TR comments were given for any gaps in audit findings. After closure of the TR comments, final verification report is prepared then followed by final approval for the decision made. The approved verification report is given to PP which shall be submitted for request for issuance.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g., name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader/ Verifier (GS Approved Auditor)	IR	Acharya	Swati S	Central Office	x	x	x	x
2	Technical Expert (3.1) & Local Expert (GS Approved Auditor)	EI	Kandari	Sanjay	Central Office	x	x	x	x
3	Verifier (GS Approved Auditor)	IR	K	Gurubalaji	Central Office	x			x
4	Trainee	IR	Shetty	Rakshita S	Central Office	x	x	x	x

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g., name of central or other office of VVB or outsourced entity)
1.	Technical Reviewer (TA 3.1)	IR	S	Stalin	Central Office
2	Approver	IR	R	Chandrakala	Central Office

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Wrong data collection/misinterpretation of household situation	Low	It's not complicated monitoring process. Appropriate trainings are conducted for the monitoring personnel.	By means of site visit check of actual situation to sample number of households.
2	Transfer of data from sampling survey sheet to ER sheet	Low	Possible human error during transfer of data to ER sheet	Thorough cross-check required on the transfer of data from survey sheets to the ER sheet

3	Error in transferring the recorded data to ER Sheet	Low	Since the process of transferring data from monitoring database to ER calculations sheets is done mostly through copy and paste, there is a very less chance of discrepancies.	Consistency between monitoring database and ER sheet to be checked.
4	Error in ER calculations	High	The sample size was large, hence increasing the chances of error in ER calculation	The ER calculations were checked for accuracy.

C.2. Consideration of materiality in conducting the verification

The prescribed thresholds for materiality, as per §326 of CDM VVS for PA,

Prescribed range of ERs/annum	>500,000	300,000-500,000	<300,000	SSC PAs	MSC PAs
Prescribed Threshold	0.5%	1.0%	2.0%	5.0%	10.0%

The identified/selected materiality threshold for the project activity under current monitoring period is 5% as project activity is small scale project activity.

	MR Version (Draft)	MR Version (Final)
Emission reductions/annum	28,050 tCO ₂	30,555 tCO ₂
Identified Threshold	5.0%	5.0%

The impact of errors observed during verification for each monitoring parameter on the emission reduction calculation is provided below:

Parameter	Verification approach	Error identified	Corrected	Extrapolated error for population size (Qty and %)	Within Threshold
Avoidance of double counting or double claiming among project technology end users	Checking 5% of database	No error identified	NA	No Impact	Yes
Presence of stove stacking	Acceptance sampling	No error identified	NA	No Impact	Yes
fNRB _{i,y}	Verification of the calculation and sources	No error identified	NA	No Impact	Yes
P _{b,y}	Verification of 100% baseline KPT data	No error identified	NA	No Impact	Yes
P _{p,y}	Verification of 100% project KPT data	No error identified	NA	No Impact	Yes
SFS _{b,p,y}	Verification of the calculation	No error identified	NA	No Impact	Yes
Up,y	Acceptance sampling	No error identified	NA	No Impact	Yes
Nb,p,y	Checking 2% of database for start date and verification of 100% calculation	Yes	Yes	No Impact	Yes
LEp,y	Verification of the justification	No error identified	NA	No Impact	Yes

No error on the values of the monitoring parameters is found. The change in the emission reduction between draft and final MR is due to the correction in the ER calculation. Please refer the CARs & CLs raised in the Appendix 4.

SECTION D. Means of verification

D.1. Desk/document review

The verification is performed primarily as a desk review of the documents submitted at various stages of assessments. The review is performed by assessment team using verification protocols (checklists). The assessment team cross-checked the information provided in the MR and information from sources other than those used, if available, and also conducts independent background investigations. 4KES conducted a desk review, involving but not limited to,

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;
- A review of calculations and assumptions made in determining the GHG data and emission reductions;
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

The list of documents reviewed is included in the section 'Appendix 3' of this report.

D.2. On-site inspection

Duration of on-site inspection: 04/12/2024 to 06/12/2024				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening Meeting, Office Inspection, Verification of monitoring records, interviews and database inspection	Udaipur Urja Initiatives Producer Company Limited office	04/12/2024	Ms. Swati S Acharya Mr. Sanjay Kandari
2	Interview with monitoring team	Udaipur Urja Initiatives Producer Company Limited office	04/12/2024	Ms. Swati S Acharya Mr. Sanjay Kandari
3	Visit to sample beneficiary households	villages	05/12/2024 to 06/12/2024	Ms. Swati S Acharya Mr. Sanjay Kandari

D.3. Interviews

No.	Interviewee			Date	Subject
	Last name	First name	Affiliation		
1.	AUDLLY	SOUMYAJIT	CEO, UII	4/12/2024 to 06/12/2024	- General aspects of the project
2	PADHBANAM AN	SUDHA	CONSULTANT	4/12/2024 to 06/12/2024	- Quality management system - Involved personnel and responsibilities - Training and practice of the operational personnel - Implementation of the monitoring plan - Monitoring data management

					- Data uncertainty and residual risks - Procedural aspects of the Monitoring - Maintenance - Data analysis
3	DHANGI	RAJMAL	AREA CORDINATOR, UII	5/12/2024 & 06/12/2024	- Process and procedures - ER Calculations - MR editorial issues
4	RAM	BAHUTA	AREA CORDINATOR, UII	5/12/2024 & 06/12/2024	- General governance and implementation
5	MEERA	LAXMI	MONITOR, UII	5/12/2024 & 06/12/2024	- Monitoring database management
6	MEERA	PUSHPA			- Monitoring procedures - Monitoring frequency - Responsibilities - Training
7	KUMAR	KARIMA			
8	KUMAR	KARIMA			
Beneficiary Details with Unit ID					
1	REKHA POPAT		S23VA004083 J23VA382394	05/12/2024	- Verification of monitored data - Awareness about ownership of CERs - Working condition of ICS unit - SD parameters verification
2	AJIT FULIYA		S23VB011113 J23VB434487	05/12/2024	
3	PRABHU NARAYAN		S23VA003946 J23VA383378	05/12/2024	
4	AJIT FULIYA		S23VB011113 J23VB434487	05/12/2024	
5	MODNI DEVI		S23VA003819 J23VA388448	05/12/2024	
6	LILA DEVI		S22VK002398 J23VA384601	05/12/2024	
7	BABI DEVI		S23VA004195 J23VA382300	05/12/2024	
8	LAXMAN FATIYA		S23VA004285 J22VL361486	05/12/2024	
9	KALI DEVI		S23VB009406 J23VC451609	05/12/2024	
10	GAVRI MASRU		S22VK002382 J23VA388418	05/12/2024	
11	RAJKA LASIYA		S23VB010020 J22VL367322	05/12/2024	
12	HIRAKI SOMA RAM		S23VB009689 J23VB427474	05/12/2024	
13	LASI JITHA		S23VB011741 J23VC441517	06/12/2024	
14	MIRAKI ANNA		S23VB012445 J23VB430767	06/12/2024	
15	SEJAN DEVI		S22VK001903 J22VI215466	06/12/2024	
16	KALI BAI		J22VI215496	06/12/2024	
17	LALITA DEVI		S22VK001915 J22VI215500	06/12/2024	
18	ANITA DEVI		S22VK001976 J22VI215757	06/12/2024	
19	BHURI DEVI MEENA		S22VK002093 J22VI215759	06/12/2024	
20	BASANTI		S22VK001995	06/12/2024	

		J22VI215777		
21	CHAMPA	S22VK001259 J22VI215782	06/12/2024	
22	HOMI DEVI MEENA	S22VK001507 J22VI216015	06/12/2024	

Verification team cross verified parameters which are monitored through acceptance samples survey. Apart from acceptance sample survey explained below section, the other questions asked by the verification team and the summary of reply received from the stakeholders are given below:

Questions asked by verification team	Summary of Response by Stakeholders/end users
Is the ICS in operating conduction?	All end users confirmed the ICS in operating condition now.
Are you aware that the project claims emission reduction and the ownership of the ERs are with UUI?	All the end users are aware that the rights of emission reduction are with PP as the ICS were provided by PP at highly subsidized cost. They also confirmed about the agreement signed with UUI for giving away the emission reduction rights to UUI.
What are all the data collected by Village Volunteers?	All households confirmed the following data are collected by village volunteers regularly: - Operational status of ICS. - Any repairs - Non-operating days
Is there any repairs done to your ICS or replaced?	No households reported any repairs.
Do you have cylinder or LPG in your home?	Many said its available but not affordable to refill.
If you have any issue with the device/project, you contact whom?	All households confirmed that they have the contact details of the village volunteer and for any requirement they can easily contact village volunteer.
Is indoor smoke reduced due to the use of ICS?	All the end users confirmed reduction in the indoor smoke and thereby reduction in health issues ie, eye related issues, respiratory issues.
Did you attend any training conducted by UUI?	Most of the users informed that they attended the community training when it was conducted in their region.
Do you have any issue with the project?	No households mentioned any issues with the project.

D.4. Sampling approach

The PP monitored the following parameters on sample basis:

- Usage rate in project scenario p during year y
- Proportion of households reporting less smoke with new stove
- Time saving from fuel wood collection and cooking

PP adopted simple random sampling approach for the survey. A total of 68 households were surveyed by the team and the data was recorded which is more than minimum required sample size.

VVB Sampling approach:

During the on-site verification a sampling approach has been used by the verification team to verify the reported values for the parameters which are determined through sample survey. Verification team has determined acceptance sample size for all the sample survey parameters based on the table provided under para 32 of standard "Sampling and surveys for CDM project activities and programmes of activities" version 9.0.

Producers risk	Consumers risk	AQL	UQL	Sample size	Acceptance Number
5%	5%	0.5%	20%	22	1

Accordingly, the verification team verified a total of 22 Samples. From the acceptance sample survey, it is found that the sample survey results of the PP for all the sample HHs were in line with VVB's field survey results. Hence, the PP's sample survey is found to be acceptable.

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

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	-	-
Compliance of the project implementation and operation with the validated PDD	01	05	-
Post-registration changes	-	-	-
Compliance of the validated monitoring plan with the methodologies including applicable tools and standardized baselines	-	-	-
Compliance of monitoring activities with the validated monitoring plan	01	06	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals	01	-	01
Assessment of reported sustainable development co-benefits	-	02	-
Stakeholder Inputs & Legal Dispute	-	-	-
Others (please specify)	-	-	-
Total	03	13	-

SECTION E. Verification findings

E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	The project is validated under GS4GG, and PP used GS monitoring report template, version 1.1. All the sections of the form were filled as per the GS4GG guidelines and gave all the relevant details.
Findings	No finding
Conclusion	Monitoring report was found to be completed and using the valid version i.e., version 1.1 of the GS MR, hence the monitoring report is complying with the monitoring report form.

E.2. Remaining forward action requests from validation and/or previous verifications

FAR FROM VALIDATION: To ensure transparency of sampling process, the PP and VVB shall use the online number generator and upload the screenshot of generated result. VVB shall assess the distribution database for duplicity.

VVB RESPONSE: The proper assessment for the sampling process has been carried out by the VVB, and the online number generator method has been followed as required. The screenshot of the generated result has been clearly included, confirming the transparency of the sampling process. Additionally, the VVB has reviewed the distribution database to ensure there is no duplicity. Therefore, the forward action request is considered closed.

E.3. Compliance of the project implementation and operation with the validated project design document

Means of verification	The project aims to reduce the dependence of the rural communities on the non-renewable biomass. The project is implemented in all tehsils of Udaipur in Rajasthan, India. The project is implemented in arid drought prone area wherein the biomass in itself is not abundant. The project activity involves replacement of traditional inefficient
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	cook stoves in 8,000 households with fuel efficient cook stoves. Each household are given one single pan greenway jumbo stove and one greenway smart cook stoves in order completely eliminate the cooking in the traditional cook stove. The project activity is implemented by Udaipur Urja Initiatives (UUI) Producer Co. Ltd and 8000 (x 2) ICS have been implemented by end of 1st monitoring period. The Project Proponent has confirmed that each household is equipped with one Smart stove and one Jumbo stove. During verification, the VVB reviewed household survey data, on-site monitoring records, and conducted user interviews, which consistently indicated that the Smart stove was primarily used for quick daily cooking activities such as tea preparation, boiling water, and light meals, while the Jumbo stove was predominantly used for bulk cooking tasks including rice, curries, and family meals. Physical verification confirmed that both stoves were present and operational in the sampled households, and the usage pattern was observed to be consistent and representative across the monitoring period. Based on this evidence, the VVB concludes that both stove types have been used in an average manner by households. and therefore, the stove efficiency calculation applied by the Project Proponent is correct and in line with the applied methodology The verification team has verified the incentive mechanisms implemented by the PD, including the "Chulha Jalao Abhiyaan" campaign, EUA clause mandating removal of traditional stoves, and the regular monitoring system. These community-based measures are found to be effective in discouraging the use of baseline stoves. The approach is considered acceptable and in line with the intent of the methodology. The verification team determined the conformity of the actual project activity and its operation with the validated project design document. Verification team has, by means of a desk review and an on-site visit, assessed that all physical features of the GS project activity proposed in the revised & approved PDD. Additionally, the following documents were reviewed by the verification team to verify the project implementation - End user Agreements, - Monitoring database, - sample survey sheets The verification team has checked the information in the monitoring report and compared against the approved PDD. During the onsite inspection, the verification team has checked the project locations, implementation, technology applied, project equipment, and monitoring system against the information in the revised PDD. Interviews with operational personnel and households and random samplings have been carried out.
Findings	CL02 AND,02,04,06,07 are raised and closed successfully
Conclusion	The verification team has reviewed the project database, monitoring database, efficiency test details, and end user agreements. The verification team has observed at the site that all physical locations of the ICS units on sample basis and found that the details are correctly matching with ICS monitoring report and monitoring records maintained by PP. The type of the ICS provided and the locations are consistent with the approved PDD. Thus, the verification team has concluded that the project activity was implemented and operated as per approved PDD. The verification team, based on the site visit and document review, was able to conclude that the project activity has been commissioned and implemented as per the approved PDD and that all physical features of the project are in place.

E.4. Post-registration changes

E.4.1. Temporary deviations from the validated monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

¹ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

No temporary deviation is sought for this monitoring period/

E.4.2. Corrections

There are no corrections in the project information and parameters fixed during registration in the current monitoring period.

E.4.3. Changes to the start date of the crediting period

There are no changes to the start date of the crediting period in this monitoring.

E.4.4. Inclusion of a monitoring plan

Monitoring plan was already included in the approved PDD. Hence, not applicable.

E.4.5. Permanent changes from validated monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

No permanent changes or deviation in the validated monitoring plan is sought.

E.4.6. Changes to the project design

No change in project design is sought for this monitoring period.

E.4.7. Changes specific to afforestation and reforestation project activities

Not applicable

E.5. Compliance of the validated monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

Means of verification	The verification team checked compliance of project monitoring plan with the applied methodology (REDUCED EMISSIONS FROM COOKING AND HEATING: Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC), version 4) and including applicable tools.
Findings	No findings
Conclusion	All parameters stated in the monitoring plan and the applied methodology has been fulfilled in the current monitoring report. All baseline emission parameters have been verified and found` satisfactory. The discussion regarding each parameter has been elaborated in the further sections of this report. The monitoring plan as mentioned in the validated PDD is in accordance with the applied methodology. In the opinion of the verification team, the monitoring report complies with the requirement of the validated PDD and applied methodologies in the context of the project activity.

E.6. Compliance of monitoring activities with the validated monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The verification team has checked the ex-ante parameters and data stated in Section D.1 of MR and compared with section B.6.2 of the validated PDD whether all parameters fixed ex-ante for the crediting period have been applied correctly.		
	Ex-ante Parameter	Value	Consistent with the PDD/3/ & the source mentioned in it
	Baseline scenario survey results	As fixed in baseline survey sheet	Yes
	Project technology description	As mentioned in Section B.1 of MR	Yes

	Expected technical life of project technology	7 years	Yes
	Indoor air pollution (IAP) levels of the project technology	Indoor air pollution level is reduced 394.49 mg/MJd PM _{2.5} per useful energy and 4.64 CO per useful energy (g/MJd). This is lesser than that from traditional cookstoves	Yes
	Avoidance of double counting or double claiming among project participants	No double counting	Yes
	Avoidance of double counting or double claiming with other mitigation actions	No double counting	Yes
	Regulatory framework for provision of thermal energy services	No national, sub-national and local regulations or guidance affect implementation of this project.	Yes
	<i>EF_{b,f,CO2}</i>	Wood: 112 tCO ₂ /TJ	Yes
	<i>EF_{b,f,nonCO2}</i>	Wood: 9.46 tCO ₂ e/TJ	Yes
	<i>NCV_{b,fuel}</i>	Wood: 0.0156 TJ/ton	Yes
	<i>SFC_{b,y}</i>	3.125 tons/hh/yr	Yes
	<i>fNRB_{i,y}</i>	0.849	Yes
Findings	CL02 and CAR03, CAR07, CAR08, CAR09, CAR10, CAR13 are raised and closed successfully.		
Conclusion	The values of ex ante fixed parameters have been verified from the approved PDD/3/. Same has been crosschecked with the source mentioned in the PDD and found to be consistent. The verification team confirms that the values used/applied are correct and justified. Also, the ex-ante values have been correctly applied in the calculation of emission reductions.		

E.6.2. Data and parameters monitored

Means of verification	The verification team has determined whether the approved monitoring plan has been properly implemented and followed by the PP that the monitoring has been carried out in accordance with the approved monitoring plan; and determined whether all parameters including project emission parameters, baseline emission parameters and leakage parameters used for emission reduction calculation stated in the validated monitoring plan are monitored or used appropriately as per the approved PDD & Approved GS4GG transition annex. During the verification all monitoring parameters listed in Section D.2 of MR were compared with section B.7.1 of the validated PDD have been verified with regard to the: (i) appropriateness of the applied measurement / determination method, (ii) the correctness of the values applied for ER calculation, (iii) the accuracy, and applied QA/QC measures. The monitored values are assessed as follows: Avoidance of double counting or double claiming among project technology end users: PP signed agreement with all end users confirming that
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the carbon rights are transferred to PP and there will not be any double counting of the stove with any other project. The end user agreement is checked randomly and confirmed the signing of end user agreement. Also, during site visit the assessment team checked with end user regarding the awareness of the carbon transfer rights and found that all end users are aware of the same. Also, every ICS have unique ID number. From verification of the following carbon mechanism registry, it is also confirmed that the project is not registered under any other carbon mechanism:

CDM: <https://cdm.unfccc.int/Projects/projsearch.html>

VCS: <https://registry.verra.org/>

GCC: <https://projects.globalcarboncouncil.com/>

ICR: <https://www.carbonregistry.com/>

Cercarbono: <https://www.ecoregistry.io/projects>

Hence, there is no possibility of double counting.

Presence of stove stacking: The stove stacking practices focus on tracking how stoves and fuel are used in the project area. Monitors conduct monthly surveys to check if households are using both traditional stoves and improved cookstoves together. The data shows that 50.6% of households use LPG at a rate of 0.076 cylinders per person per month, which is a bit lower than the 0.09 cylinders per person per month found in other studies. The method also ensures that stove stacking is identified, so emission reductions are only counted when the baseline technology (traditional stoves) is replaced, not just used alongside the new technology. Quality checks make sure baseline fuel usage is adjusted for the meals still cooked on traditional stoves. The data is compared with other studies to avoid overestimating emission reductions, ensuring that reductions are only based on real changes in fuel use. The same is found to be appropriate and The verification team has reviewed the data and monitoring approach related to the presence of stove stacking in the project scenario. Monthly surveys were conducted using a mobile application to track the usage of traditional stoves and LPG, including the number of days used and the type of food cooked. The PD has conservatively applied a 90% usage rate for ICS, accounting for 10% continued use of baseline stoves, and this has been deducted from the total emission reductions. Incentive measures such as community campaigns, regular follow-up visits, repair services, and a clause in the End User Agreement requiring removal of traditional stoves have been verified and found to be effectively implemented. The observed usage trends are consistent with findings from relevant national and regional studies. Overall, the validation team finds the monitoring process and treatment of stove stacking to be reasonable, well-documented, and aligned with the methodological requirements.

P_{b,y}: Quantity of fuel that is consumed in baseline scenario b during year y is determined through baseline KPT test conducted in the non-project households which is conducted by the PP prior to the first verification as per the applied methodology requirement in Annex 4. The test has been conducted consecutively three days during the month of January 2023 as per the methodology in the non-project households. Average fuel wood consumption for each family is determined from Kitchen Performance Test and per capita fuel wood consumption for each household is estimated based on the respective family size. The sampling size determined by using 90/30 rule as defined in the validated PDD and expected mean & standard deviation derived from KPT test result of another project of PP. As per above, the minimum sample size required for estimation of per capita fuel wood consumption is 2 Nos. The actual sample size considered by the PP for the survey is 50 samples of non-project households which is higher than minimum sample size required also as per validated PDD the PP ensures that the sample size for this baseline field test survey is greater than 20 Nos as per methodological requirements. Based on the baseline KPT results, the achieved precision level is 4.4 % which is within the 30% selected precision and comply the 90/30 rule as demonstrated in the Validated VPA. Hence, the Verification team finds the sample size considered for the kitchen test is adequate.

Based on the survey results, the value of fuelwood consumed during the baseline scenario is 3.125 t/HH/yr or 0.564 t/capita/yr which is fixed during the current crediting period. Hence, the average fuel wood consumption per household per year is estimated to be 3.125 t/HH/yr or 0.564 t/capita/yr. Verification team checked the appropriateness of test results using the following steps:

- The method of Kitchen performance test followed by CME is checked and found to be in accordance with established procedures in the host country and also in line with methodological requirements
- The Kitchen test results have been crosschecked with the respective Kitchen performance test monitoring sheet and found no error
- The method of Kitchen test is simple and the CME's staffs are found to be capable of doing the test.

Hence, the verification team accepts the Kitchen performance test result and the value considered by PP (i.e., 3.125 t/HH/yr or 0.564 t/capita/yr) is found to be correct.

P_{p,y}- The data for P_{b,y}, which shows the amount of fuel used in the baseline scenario, confirms that the value applied is 3.125 tons per household per year (or 0.564 tons per person per year). This value is based on field tests done at the start of the crediting period and remains fixed throughout the period. It is used to calculate sustainable fuel savings (SFS) under method 1. The monitoring process follows strict quality control procedures, including sampling and kitchen performance tests. If the baseline values from the kitchen tests exceed 0.75 tons per person per year, additional verification through independent studies is needed. However, the value applied here (0.564 tons per person per year) is well below the threshold and cap of 0.75 and 0.95 tons per person per year, meaning the value is appropriate and within the acceptable range.

Based on the survey results, the value of fuelwood consumed during the project scenario is 0.0026 t/HH/day which is applied for this monitoring period. Hence, the average fuel wood consumption per household per year is estimated to be 0.0026 t/HH/day. Verification team checked the appropriateness of test results using the following steps:

- The method of Kitchen performance test followed by CME is checked and found to be in accordance with established procedures in the host country and also in line with methodological requirements
- The Kitchen test results have been crosschecked with the respective Kitchen performance test monitoring sheet and found no error
- The method of Kitchen test is simple and the CME's staffs are found to be capable of doing the test.

Hence, the verification team accepts the Kitchen performance test result and the value considered by PP (i.e., 0.0026 t/HH/day) is found to be correct

SFS_{b,p,y}: The SFS_{b,p,y} data, which measures the fuel savings from the project technology compared to the baseline, is set at 0.006 tons per day per household, as shown in the VER calculations sheet. This value is based on thermal efficiency tests of both the traditional earthen stoves (baseline) and the project stoves, with the baseline stove having 10% efficiency and the project stove 30.96%. The fuel savings are calculated by comparing these efficiencies, showing that the project stove is about three times more efficient. A statistical analysis confirms the savings factor ($0.006/0.0086 = 0.68$), which is reasonable and less than the expected 3x factor in the first year. The data is updated every two years or more if needed. QA/QC procedures ensure the thermal efficiencies of both types of stoves are measured correctly. If more than one stove is provided to a household, the savings are calculated conservatively, averaging the efficiencies of the stoves when they are within +/- 5%. This data helps accurately calculate emission reductions from the fuel savings of the improved stoves.. The calculation is checked and found that the value applied for this parameter (ie, 0.006 t/day/HH) is found to be correct. The calculation of SFS_{b,p,y} has been carried out as per Annex 4 of the applied methodology, using baseline and project stove efficiencies. The

approach is consistent with methodology requirements and is considered appropriate.

Up,y: The data for Up,y, which shows the average usage rate of the project technology, is set at 90%. This data comes from a survey conducted by village-level monitors who visit all 8,000 households at least once every three months to collect information on the use of improved cookstoves (ICS) and traditional stoves. By collecting data from every household, rather than using sample surveys, the results are more accurate and complete. The survey tracks how much each household uses the ICS, and if data is missed for more than three months, the recall method is used to fill in the gaps. Quarterly surveys ensure the data is updated regularly. QA/QC procedures make sure the data is reliable and complete, and it is used to calculate emission reductions.

- The stoves used within last 30 days is defined as the devices are in 'Use' and if the stove is not used for last 30 days is considered as 'non-use'. This definition is found to be appropriate.
- PP conducted annual household survey on sample basis and the following are considered during survey, Kitchen observation by surveyor, Interviewed the primary cook, Photos of the cooking area is taken, GPS coordinates of the household has been noted down. The survey sheets & photos are checked and found to be appropriate. The usage survey details are cross verified through acceptance sample survey during the site visit and the survey result found to be appropriate. The verification team also conducted interview with monitoring staff and found they are aware of the requirements and monitored appropriately.
- Verification checks done randomly by consultant through physical visit & telephone to the sample households confirms recorded responses are correct. This is confirmed through interview with representative of consultant and the implementer organisation.

PP also followed the Good Practices:

- UUI provided detailed training to all its monitoring staffs on the conducting usage survey. This is confirmed through verification of training records. During site visit the UUI team also confirmed that the random checks were conducted during the survey to confirm the procedure followed by the monitoring staff are correct.
- PP provided trainings to all ICS users on the usage of the ICS at the start of the project. Additionally, the project field staff visit all the 100% households every 3 month as a part of monitoring and encourage households to use ICS regularly. The training records are verified and confirmed the same.
- PP also conduct awareness campaign to end users regularly to encourage use of ICS. As mentioned above, the project field staff also visit all the 100% households every month as a part of monitoring and encourage households to use ICS regularly. The same is confirmed through verification of records of awareness campaign and interview with the end users.

Hence, it is confirmed PP followed the mandatory monitoring requirement & good practice requirement as per the section 2.2 & 2.3 of the Usage rate guideline. Also, verification team surveyed 22 households in it randomly and confirmed that the value provided by CME is correct and all the ICS are in operating condition. Verification team verified records which reveals that the ICS are in operating conditions. No error is found in the PP data. Hence the value considered by PP is found to be correct. However, the PP has considered 90% usage rate as defined in the validated PDD which is conservative and acceptable to the verification team

Nb,p,y : Number of project technology-days included in the project database for baseline b/project p pair in year y is determined from the Project database as the sum of the number of project technology units times the calendar days during the year y that they were present at the end user locations this has been verified the village monitor at least once a three month (quarterly basis). The calculation is checked and found to be correct. Additionally the number of days the end users

	used the traditional stove in parallel are adjusted in the Nb,p,y. The number of parallel use days are monitored by UUI staff through monthly monitoring visit which is conducted to all the end users. The data monitored by field staff is verified and found to be correct. Though these days parallel usage days in parallel to ICS use, PP considered all these days as non-operational days of ICS and adjusted Nb,p,y which is found to be conservative. Hence, the Number of project technology-days considered by PP (ie, 4,013,487 days) is found to be correct. LEp,y: Leakage in project scenario p during year y is based on the methodology default value. PP applied leakage by adjusting the ER with 0 factor. The calculation is found to be correct and in line with methodology requirement.
Findings	CL02 and CAR03, CAR07, CAR08, CAR09, CAR10, CAR13 are raised and closed successfully.
Conclusion	The verification team confirm that the monitoring has been carried out in accordance with the validated PDD/3/. The monitoring system is in compliance with the information flow for the parameters as mentioned in monitoring plan in validated PDD/3/. The monitored data for the parameters has been verified by checking the procedure for information flow and found to be complete and consistent.

E.6.2.1. Implementation of sampling plan

Means of verification	The following parameters are determined through sample survey: - Usage rate in project scenario p during year y - Proportion of households reporting less smoke with new stove - Time saving from fuel wood collection and cooking A simple random sampling approach was adopted. A total of 120 households were surveyed by the team and the data was recorded. Based on the verification team experience, the sample size considered for estimation of parameters is found to be adequate. The parameter $P_{b,y,i}$ (fuel wood consumed during the baseline scenario) and $P_{p,y,i}$ (fuel wood consumed during the project scenario) which are determined by KPT test as described in the applied methodology which is explained in section E.3.4.2 above in this report. The PP has selected samples based on the simple random sampling approach and conducted the monitoring survey annually which is appropriate and acceptable to the verification team as per the proposed monitoring plan in the VPA-DD and applied methodology. The survey results achieved the required precision level and hence the data is accepted
Findings	No finding
Conclusion	Verification team concludes the following: • The sample size considered for all the parameters (which are monitored through sampling basis) are found to be appropriate. • The precision level achieved from the monitored data also confirms that the sample size considered for the monitoring is sufficient. • PP's sample population was selected in all the Tehsils proportionally based on the number ICS distributed in the respective Tehsils. • The sampling plan is implemented correctly in accordance with the approved PDD.

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	No monitoring equipment is used. Hence not applicable
Findings	No finding
Conclusion	NA

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The verification team has checked whether calculations of baseline GHG emissions calculation have been carried out in accordance with the formulae and methods described in the validated monitoring plan. In detail the following has been verified: <u>Transparency:</u> It has been checked whether the calculation of baseline emissions is fully traceable and, where used, the Excel calculation provides all calculation formulae. <u>Parameter consistency:</u> It has been checked whether all internal and external parameters and data used for the calculation are applied consistently in the monitoring report and the calculation spreadsheet. <u>Correctness:</u> It has been checked whether the applied formulae and methods for calculating baseline emissions are in accordance with the monitoring plan and the approved methodology. <u>Completeness:</u> It has been checked whether all calculations are complete and without omissions As per applied methodology, the emission reduction is calculated using the formula: $ER_y = \sum_{b,p} (N_{b,p,y} \times U_{p,y} \times SFS_{p,b,y} \times NCV_{b,fuel} \times (f_{NRB,b,y} \times EF_{b,f,CO2} + EF_{b,f,nonCO2})) - \sum LE_{p,y}$ Where: <table> <tr> <td>ER_y</td><td>Emission reduction for total project activity in year y (tCO₂e/yr)</td></tr> <tr> <td>$\sum_{b,p}$</td><td>Sum over all relevant baseline b/project p pairs</td></tr> <tr> <td>$N_{b,p,y}$</td><td>Number of project technology-days included in the project database for baseline b/project p pair in year y (days)</td></tr> <tr> <td>$U_{p,y}$</td><td>Cumulative Usage rate for technologies in project scenario p in year y (fraction)</td></tr> <tr> <td>$SFS_{p,b,y}$</td><td>Specific fuel savings for an individual project technology of baseline b/project p pair in year y (mass or volume units/technology*day)</td></tr> <tr> <td>$NCV_{b,fuel}$</td><td>Net calorific value of the fuel(s) that is substituted or reduced in baseline b (TJ/mass or volume units)</td></tr> <tr> <td>$f_{NRB, y}$</td><td>Fractional non-renewability status of woody biomass fuel during year y (fraction). For biomass, it is the fraction of woody biomass that can be established as non-renewable. This parameter is omitted when f is a fossil fuel.</td></tr> <tr> <td>$EF_{b,fuel,CO2}$</td><td>CO₂ emission factor from use of fuel f (tCO₂/TJ)</td></tr> <tr> <td>$EF_{b,fuel,nonCO2}$</td><td>Non-CO₂ emission factor arising from use of fuel f, when the baseline fuel f is biomass or charcoal (tCO₂e/TJ). This parameter is omitted when f is a fossil fuel.</td></tr> </table>	ER_y	Emission reduction for total project activity in year y (tCO ₂ e/yr)	$\sum_{b,p}$	Sum over all relevant baseline b/project p pairs	$N_{b,p,y}$	Number of project technology-days included in the project database for baseline b/project p pair in year y (days)	$U_{p,y}$	Cumulative Usage rate for technologies in project scenario p in year y (fraction)	$SFS_{p,b,y}$	Specific fuel savings for an individual project technology of baseline b/project p pair in year y (mass or volume units/technology*day)	$NCV_{b,fuel}$	Net calorific value of the fuel(s) that is substituted or reduced in baseline b (TJ/mass or volume units)	$f_{NRB, y}$	Fractional non-renewability status of woody biomass fuel during year y (fraction). For biomass, it is the fraction of woody biomass that can be established as non-renewable. This parameter is omitted when f is a fossil fuel.	$EF_{b,fuel,CO2}$	CO ₂ emission factor from use of fuel f (tCO ₂ /TJ)	$EF_{b,fuel,nonCO2}$	Non-CO ₂ emission factor arising from use of fuel f, when the baseline fuel f is biomass or charcoal (tCO ₂ e/TJ). This parameter is omitted when f is a fossil fuel.
ER_y	Emission reduction for total project activity in year y (tCO ₂ e/yr)																		
$\sum_{b,p}$	Sum over all relevant baseline b/project p pairs																		
$N_{b,p,y}$	Number of project technology-days included in the project database for baseline b/project p pair in year y (days)																		
$U_{p,y}$	Cumulative Usage rate for technologies in project scenario p in year y (fraction)																		
$SFS_{p,b,y}$	Specific fuel savings for an individual project technology of baseline b/project p pair in year y (mass or volume units/technology*day)																		
$NCV_{b,fuel}$	Net calorific value of the fuel(s) that is substituted or reduced in baseline b (TJ/mass or volume units)																		
$f_{NRB, y}$	Fractional non-renewability status of woody biomass fuel during year y (fraction). For biomass, it is the fraction of woody biomass that can be established as non-renewable. This parameter is omitted when f is a fossil fuel.																		
$EF_{b,fuel,CO2}$	CO ₂ emission factor from use of fuel f (tCO ₂ /TJ)																		
$EF_{b,fuel,nonCO2}$	Non-CO ₂ emission factor arising from use of fuel f, when the baseline fuel f is biomass or charcoal (tCO ₂ e/TJ). This parameter is omitted when f is a fossil fuel.																		

Emission Reduction			
Description		Value	Source of data
Nb,p,y	Number of project technology-days included in the project database for baseline b/project p pair in year y (days)	4,013,487	Assumption
U_{py}	Cumulative Usage rate for technologies in project scenario p in year y (fraction)	90%	Assumption
$SFSp,b,y$	Specific fuel savings for an individual project technology of baseline b/project p pair in year y (mass or volume units/technology*day)	0.006 t/day/HH	calculated
$SFCb,y$	Specific fuel consumption for an individual baseline technology in baseline scenario b during year y	3.125 t/HH/yr	Based on baseline survey and kitchen test conducted in the project area
$NCV_{b,fuel}$	Net calorific value of wood (TJ/ton)	0.0156	Methodology
$f_{NRB,B,y}$	Fractional non-renewability status of woody biomass fuel during year y (fraction)	0.849	calculated
EFb,f,CO_2	CO2 emission factor from use of fuel f (tCO2/TJ)	112	Methodology
$EFb,f,nonCO_2$	Non-CO2 emission factor arising from use of fuel f, when the baseline fuel f is biomass or charcoal (tCO2e/TJ).	9.4600	Methodology
LE_{py}	Leakage for project scenario p in year y (tCO2e/yr)	0	Assumption
ER_y	Emission Reductions tCO₂/HH	30,555	

From the monitored values of number of operating days of each ICS (estimated from number of non-operating days) the emission reduction for the monitoring period is calculated proportionally. Since the emission reduction is estimated based on actual number of operating days, the verification team found this to be appropriate.

PP has submitted the calculation in the excel sheet/2/. The baseline calculation in the excel sheet is checked whether the calculation is in accordance with the formula given in the revised PDD/3/ and the selected methodologies/6/.

Findings

Conclusion

CL03 raised and closed successfully.

The verification team confirms the following:

- The calculations of baseline emission have been carried out in accordance with the equations and methods described in the validated monitoring plan and applied methodology.
- The emission factor applied is an ex-ante value valid for the fixed crediting period.

	- Any assumptions used in emission or removal calculations have been justified. - Appropriate emission factor and other reference values have been correctly applied. It can be confirmed that the baseline calculation is overall correct. - The ER calculation sheet provided is clear, transparent and the calculations provided in the sheet are reproducible. - Hence, the emission reduction (without adjusting leakage) reported in the monitoring report for the monitoring period (ie, 30,555 tCO₂) is verified to be correct.
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E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	As per PDD & applied, no project emission is involved in this project. .
Findings	No finding
Conclusion	No project emission reported.

E.8.3. Calculation of leakage GHG emissions

Means of verification	During the verification it has been checked whether leakage emissions have to be considered and in cases where leakage emissions have to be calculated, the respective calculation of leakage GHG emissions has been checked. PP justified all possibility of leakage and confirmed no leakage is applicable for this project activity. The same is verified and found to be correct.
Findings	No findings
Conclusion	No leakage is applicable for this project

E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	Section E.3 of MR demonstrates the summary of GHG emission reductions for the monitoring period and calculated according to the applied methodologies as follows: $ER_y = \sum BE_{b,y} - \sum PE_{p,y} - \sum LE_{p,y}$ Where ER_y Emission reduction for total project activity in year y (tCO₂e/yr) $BE_{p,y}$ Baseline emissions for baseline scenario b in year y tCO₂e/yr) $PE_{b,y}$ Project emissions for project scenario p in year y (tCO₂e/yr) $LE_{p,y}$ Leakage for project scenario p in year y (tCO₂e/yr) PP has submitted the calculation in the excel sheet/2/. The emission reduction calculation in the excel sheet is checked whether the calculation is in accordance with the formula given in the revised PDD/3/ and the selected methodologies/6/.																				
Findings	No findings																				
Conclusion	The verification team confirms the following: • The emission reduction is calculated as per the approved PDD and the applied methodology • The emission reduction value reported in the PDD is verified to be correct. • The summary of emission reduction are as below: <table><tr><th>Vintage</th><th>$\sum BE_{b,y}$ (tCO₂)</th><th>$\sum PE_{b,y}$ (tCO₂)</th><th>$\sum LE_{b,y}$ (tCO₂)</th><th>ER* (tCO₂)</th></tr><tr><td>20/01/2023 to 31/12/2023</td><td>17,550</td><td>0</td><td>0</td><td>17,550</td></tr><tr><td>01/01/2024 to 31/07/2024</td><td>13,005</td><td>0</td><td>0</td><td>13,005</td></tr><tr><td>Total</td><td>30,555</td><td>0</td><td>0</td><td>30,555</td></tr></table> *Rounded down values	Vintage	$\sum BE_{b,y}$ (tCO ₂)	$\sum PE_{b,y}$ (tCO ₂)	$\sum LE_{b,y}$ (tCO ₂)	ER* (tCO ₂)	20/01/2023 to 31/12/2023	17,550	0	0	17,550	01/01/2024 to 31/07/2024	13,005	0	0	13,005	Total	30,555	0	0	30,555
Vintage	$\sum BE_{b,y}$ (tCO ₂)	$\sum PE_{b,y}$ (tCO ₂)	$\sum LE_{b,y}$ (tCO ₂)	ER* (tCO ₂)																	
20/01/2023 to 31/12/2023	17,550	0	0	17,550																	
01/01/2024 to 31/07/2024	13,005	0	0	13,005																	
Total	30,555	0	0	30,555																	

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in validated PDD

Means of verification	The verification team has checked whether the MR includes a comparison of actual values of the monitoring period with the estimations in the validated PDD/3/. Section E.5 of the MR includes a comparison of the calculated actual emission reductions with the ex-ante calculated values in the validated PDD	
	Emission reduction estimated as per the validated PDD/3/	Actual emission reduction achieved as per Monitoring report/1/
	50,196 t CO ₂ e	30,555 t CO ₂ e
	Hence, the actual emission reduction achieved during the monitoring period is less than the estimation in the PDD.	
Findings	No finding	
Conclusion	The estimated emission reduction as per PDD and the actual emission reduction achieved for the monitoring period are correctly reported in the section E.5 of MR. The actual achieved emission reduction is less than the PDD estimation. Hence no justification is required.	

E.8.6. Remarks on difference from estimated value in validated PDD

Means of verification	The verification team has determined the VER achieved during this monitoring period with the estimated value and reason for increase if any.
Findings	No finding
Conclusion	The actual achieved emission reduction is lower than the PDD estimation. The actual achieved emission reduction is less than the PDD estimation. Hence no justification is required.

E.9. Assessment of reported sustainable development co-benefits

Relevant SDG	SDG 3: Good Health and Well-Being		
Parameter description	Number of households visited medical facilities/dispensary for treatment of respiratory issues etc. such as cough, shortness in breath, pneumonia and other respiratory issues (Reduction)		
Monitored Value	99% HHs experience reduction in indoor air pollution		
Means of verification	This parameter is monitored through baseline survey & monitoring survey. Verification team checked all the sample survey sheets/16/ and found that the percentage of households that reported visiting medical facilities/dispensary for treatment of respiratory issues etc. such as cough, shortness in breath, pneumonia and other respiratory issues is 7.2% and in the project scenario it is 5.2%. Also, verification team conducted acceptance sample survey from the 22 households where the PP has conducted sample survey and found that the details mentioned in the survey sheet is correct.		
Findings	CAR 11 AND CAR 13 raised and closed successfully.		
Conclusion	The parameter is monitored appropriately, in accordance with the validated monitoring plan. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. All the monitored parameter values reported in the MR are found to be correct.		
	Baseline value	Project Value	Net Benefit
	99% HHs experience indoor air pollution	99% HHs experience reduction in indoor air pollution	99% HHs experience reduction in indoor air pollution

Relevant SDG	SDG 5: Gender Equality
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Parameter description	Average time saving associated with cooking time and fuel collection		
Monitored Value	41%		
Means of verification	This has been determined through baseline & project survey. All the survey records/17/ are verified and the data provided by PP is found to be correct. During the onsite verification the verification team also acceptance sample survey and found no error in the survey records. Hence, the data provided in the monitoring report is correct.		
Findings	CAR 11 AND CAR 13 raised and closed successfully.		
Conclusion	The parameter is monitored appropriately, in accordance with the validated monitoring plan. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. All the monitored parameter values reported in the MR are found to be correct.		
	Baseline value	Project Value	Net Benefit
	No reduction in time taken for cooking and fuelwood collection	41% reduction in time taken for cooking and fuelwood collection	41% reduction in time taken for cooking and fuelwood collection

Relevant SDG	SDG 7: Affordable and Clean Energy		
Parameter description	Number of beneficiaries: Households		
Monitored Value	ICS distributed 8000 families (@ 2 stoves/family) & 100% operating		
Means of verification	Number of ICS distributed to the beneficiaries are recorded in online project database which was verified and also reviewed the end user agreement for the new stoves were reviewed and found appropriate. Also, number of ICS repaired and replaced are recorded in online project database as and when a repair is done or a replacement is provided. The verification team checked the repair and replacement data in the online project database/14/ and found that there was no repair and replacement during the current monitoring period due to the distribution of new stoves. The repairs & replacement reported in the MR are correct. As verified form the monitoring database/14/, 18,951 households are distributed with project stoves Hence, the value reported in MR for parameter is correct		
Findings	No findings raised.		
Conclusion	The parameter is monitored appropriately, in accordance with the validated monitoring plan. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. All the monitored parameter values reported in the MR are found to be correct.		
	Baseline value	Project Value	Net Benefit
	No ICS in the baseline	ICS distributed 8000 families (@ 2 stoves/family) & 100% operating	ICS distributed 8000 families (@ 2 stoves/family) & 100% operating

Relevant SDG	SDG 8: Decent Work and Economic Growth		
Parameter description	Total number of jobs created		
Monitored Value	94		

Means of verification	These details are taken from the employment records/25/. Verification team checked the employment records and found that the number of jobs created for men & women reported in the MR is correct.		
Findings	CAR 11 AND CAR 13 raised and closed successfully.		
Conclusion	The parameter is monitored appropriately, in accordance with the validated monitoring plan. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. All the monitored parameter values reported in the MR are found to be correct.		
	Baseline value	Project Value	Net Benefit
	No jobs related to ICS	94 Number of jobs created due to the project activity	94 Number of jobs created due to the project activity

E.10. Stakeholder Inputs & Legal Dispute

Means of verification	All the end-users have phone number to the respective village volunteer. For any repairs, the end-users inform the volunteers through phone or through physical meeting. As and when a repair request is received, the same is updated in the online app by village level volunteers and resolved as soon as possible. Village level volunteers also take the complaint during their monthly visit to the households based on the working condition of stove. There are no grievances reported by Stakeholders during the current or previous monitoring period. Verification team checked the repairs and replacement records and confirmed that there was no repair and replacement of stoves during the current monitoring period. Verification team checked with UUI and independently whether any legal consent or dispute arise during the monitoring period and also confirmed that there are no such legal contests or dispute that has arisen with the project during the monitoring period.
Findings	No finding
Conclusion	The verification team confirms the following: - No other grievances received during the current or previous monitoring period - No legal consent or dispute raised during the monitoring period.

SECTION F. Internal quality control

The draft verification report prepared by team leader is reviewed by an independent technical reviewer (having competence of relevant technical area himself/herself or through an independent technical area expert) to confirm the internal procedures established by 4KES are duly followed and the verification report/opinion is reached in an objective manner and complies with the applicable Gold Standard & CDM requirements.

The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the verification team. The independent technical reviewer(s) may approve or reject the draft verification report. The findings may be identified even at this stage, which needs to be satisfactorily resolved, before submit final report to Client/Gold Standard. The final approval decision is taken by the Head of the DOE/Director.

The final decision is authorized by the Director, 4KES, once the report is finalized by the Head of the DOE/DOE Manager.

SECTION G. Verification opinion

The verification team confirms that the the evidence is of sufficient quantity, appropriate quality and reliable. The reported values, notation, units and sources in the monitoring report for all the monitoring parameters

have been cross checked with the emission reduction sheet and monitoring report. During the course of verification and on-site visit, the data submitted by PP was cross verified with the values mentioned in the emission reduction sheet/2/ and monitoring report/1/. The procedure for data monitoring, recording, transfer and compilation was also verified and found in compliance with the monitoring plan as mentioned in the approved revised PDD/3/.

Evidences (Documents/interview/site visit) referred for verification of individual monitoring parameter and fixed parameters are defined in section E.6 above. It is confirmed by the assessment team that the reported emission reductions have been conservatively calculated. A list of referred documents for verification is also included in Appendix 3 of this report.

Based on the information seen and evaluated we confirm that the implementation of the project has resulted in **30,555 tCO₂** emission reductions during period 20/01/2023 – 31/07/2024.

SECTION H. Certification statement

4K Earth Science Pvt. Ltd. has been contracted by 'Udaipur Urja Initiatives Producer Company Limited' to undertake independent verification and certification for the greenhouse gas (GHG) emission reductions reported and the contribution to sustainable development indicators from the GS Project activity "SAMARTH – Empowering lives through clean technology" and GS Reference Number GS11855 for the monitoring period 20/01/2023 – 31/07/2024 (including both dates) in the Monitoring Report Version 01 (first version).

The verification is based on the GS approved PDD and the monitoring report for this project. Our verification approach was based on the requirements as defined under the Gold Standard requirements, Kyoto Protocol, Marrakech accord, as well as those defined by the CDM Executive Board.

The management of the 'Udaipur Urja Initiatives Producer Company Limited' and 'Udaipur Urja Initiatives Producer Company Limited' are responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions & monitoring of SDG parameters on the basis set out within the project Final Monitoring Report Version 06. The calculation and determination of GHG emission reductions from the project is the responsibility of the management of the 'Udaipur Urja Initiatives Producer Company Limited' and 'Udaipur Urja Initiatives Producer Company Limited'. The development and maintenance of records and reporting procedures are in accordance with the Monitoring Report Version 06.

In our opinion the GHG emissions reductions reported for the project activity are fairly stated in the Monitoring Report (final), version 6. 4KES based on outcome of verification activities, certifies in writing that, during the monitoring period 20/01/2023 – 31/07/2024 (including both days), the validated GS PA "SAMARTH – Empowering lives through clean technology" in the validated GS PA achieved the verified amount of **30,555 tCO₂** reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the PA

The Verified and certified impacts during the monitoring period 20/01/2023 – 31/07/2024 (including both dates) is stated below:

Sustainable Development Goals Targeted	SDG Impact	Achieved	Units/ Products
SDG 13	GHGs emissions reduction per year	Reduction of 30,555 tCO ₂ by using Improved Cookstove	tCO ₂
SDG 3	Number of households visited medical facilities/dispensary for treatment of respiratory issues etc. such as cough, shortness in breath, pneumonia and other respiratory issues (Reduction)	99	%
SDG 5	Average time saving associated with cooking time and fuel collection	41	% reduction in time taken for cooking

			and fuelwood collection
SDG 7	Number of beneficiaries: Households	ICS distributed 8000 families (@ 2 stoves/family)	Number
SDG 8	Total number of jobs	94 Number of jobs created due to the project activity	Number

Appendix 1. Abbreviations

Abbreviations	Full texts
4KES	4K Earth Science Pvt. Ltd
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CH ₄	Methane
CL	Clarification Request
CO ₂ e	Carbon dioxide equivalent
EF	Emission Factor
ERs	Emission Reductions
FAR	Forward Action Request
GHGs	Greenhouse Gas(es)
GS	Gold Standard
GVC	Gram Vikas Committees
GVK	Gram Vikas Kosh
GWP	Global Warming Potential
HH	Household
ISO	International Organization of Standardization
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
LE	Leakage Emissions
MR	Monitoring Report
MP	Monitoring Plan
NCV	Net Calorific Value
NGO	Non Governmental Organisation
PE	Project Emissions
PDD	Project Design Document
PS	Project Standard
PCIA	Partnership for Clean Indoor Air
PCP	Project Cycle Procedure
PP	Project proponent
SD	Sustainable Development
SDG	Sustainable Development Goal
SHG	Self Help Group
QA/QC	Quality Assurance/Quality Control
UNFCCC	United Nations Framework Convention on Climate Change
VER	Verified Emission Reduction
VVB	Validation and Verification Body
VVS	Validation & Verification Standard
WBT	Water Boiling Test

Appendix 2. Competence of team members and technical reviewers

<u>Certificate of Competence</u>							
Name	☐ Mr. ☒ Ms.	Swati S Acharya					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
<i>Appointed</i>	Yes	Yes	No	Yes	No	No	No
<i>Appointed Date</i>	05-12-2023						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	Energy industries (renewable - / non-renewable sources)		1.2		Renewables		
	Transportation		7.1		Transport		
Authorized to work as Local Expert for:							
<i>Country/Countries</i>	India						
<u>Compliance check by:</u>				Anand S R			

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Sanjay Kandari					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
<i>Appointed</i>	Yes	Yes	No	Yes	Yes	No	No
<i>Appointed Date</i>	15-07-2023						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	Energy industries (renewable - / non-renewable sources)		1.1		Thermal energy generation		
	Energy industries (renewable - / non-renewable sources)		1.2		Renewables		
	Energy distribution		2.1		Energy distribution		
	Energy demand		3.1		Energy demand		
	Waste handling and disposal		13.1		Solid waste and wastewater		
	Waste handling and disposal		13.2		Manure		
Authorized to work as Local Expert for:							
<i>Country/Countries</i>	India						
<u>Compliance check by:</u>				Anand S. R.			

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Gurubalaji K					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	Yes	No	No	No	No	No	No
Appointed Date	15-06-2024						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	-		-		-		
Authorized to work as Local Expert for:							
Country/Countries	-						
Compliance check by:				Anand S R			

<u>Certificate of Competence</u>							
Name	☐ Mr. ☒ Ms.	Rakshita S Shetty					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	No	No	Yes	No	No	No	No
Appointed Date	15-07-2023						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	-		-		-		
Authorized to work as Local Expert for:							
Country/Countries	-						
Compliance check by:				Anand S R			

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Stalin S					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver

Appointed	Yes	Yes	No	Yes	Yes	Yes	Yes
Appointed Date	15-07-2023						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	Energy industries (renewable - / non-renewable sources)		1.1		Thermal energy generation		
	Energy industries (renewable - / non-renewable sources)		1.2		Renewables		
	Energy demand		3.1		Energy demand		
	Waste handling and disposal		13.1		Solid waste and wastewater		
	Waste handling and disposal		13.2		Manure		
Authorized to work as Local Expert for:							
Country/Countries	India						
Compliance check by:			Anand S. R.				

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	UUI	Monitoring Report	Version 01, dated 13/11/2024	UUI
			Version 06, dated 13/08/2025	
2	UUI	VER Calculation Sheet	Version 05	UUI
3	UUI	Latest approved PDD	Version 05	UUI
4	UUI	Preliminary review report	-	UUI
5	4KES	Validation Report	Version 2, dated 07/10/2023	Publicly available
6	UNFCCC	REDUCED EMISSIONS FROM COOKING AND HEATING: Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC),	Version 04	Publicly available
7	IPCC	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book	Web Link	Publicly available
8	UNFCCC	Kyoto Protocol (1997)	Web Link	Publicly available
9	GS	Template: Gold standard for the global goals Monitoring report	Version 01.1	Publicly available
10	UNFCCC	CDM project standard for project activities	Version 02	Publicly available
11	UNFCCC	Standard: Sampling and surveys for CDM project activities and programme of activities	Version-09	Publicly available
	UNFCCC	Guidelines for sampling and surveys for CDM project activities and programme of activities	Version 04	Publicly available
12	UNFCCC	CDM validation and verification standard for project activities	Version 03	Publicly available
13	UNFCCC	Glossary "CDM terms"	Version 10	Publicly available
14	UUI	ICS basic record set: - ICS distribution records	-	UUI

		- End user agreement for VER ownership - Receipt copy of the households		
15	UUI	Excel sheets: Monitoring sheet	-	UUI
16	UUI	Excel sheet: Monitoring Sustainable Development Indicators analysis Sample survey sheets	-	UUI
17	UUI	Training Records (Attendance sheet, meeting minutes & Photographs): - Staff training - Community Meeting	-	UUI
18	UUI	Records of non-working, repair details of ICS & traditional stove usage monitored by village monitors	-	UUI
19	UUI	Excel sheet: Stove repair & replacement database	-	UUI
20	UUI	Project KPT result	-	UUI
21	Indian school of mines	Efficiency test certificate for Greenway smart stove		UUI
22	IIT, Varanasi	Efficiency test certificate for Greenway Jumbo stove		UUI
23	PCIA	PCIA procedures for Water Boiling Test	Version 03, January 2007	Publicly available
24	Greenway	Agreement between Greenway & UUI for ICS purchase ICS purchase invoices	-	UUI
25	UUI	Employment records of UUI staffs	-	UUI
26	Publicly available	GS Validation Verification Standard (VVS)	Version 1	Publicly available

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

Table 1.FAR from validation:

FAR ID	01	Section no.	SAMPLING	Date: 17/12/2024
Description of FAR				
To ensure transparency of sampling process, the PP and VVB shall use the online number generator and upload the screenshot of generated result. VVB shall assess the distribution database for duplicity (refer comment 5 of this document). Tool recommended http://www.raosoft.com/samplesize.html , https://stattrek.com/survey-sampling/sample-size-calculator				
Project participant response				Date: 27/01 /2025
Based on online tool @raosoft.com, the sample size is 68 as can be seen below from the screenshot included in the MR				
Documentation provided by project participant				
NA				
DOE assessment				Date: 17/02/2025
The proper assessment for the sampling process has been carried out by the VVB, and the online number generator method has been followed as required. The screenshot of the generated result has been clearly included, confirming the transparency of the sampling process. Additionally, the VVB has reviewed the distribution database to ensure there is no duplicity. Therefore, the forward action request is considered closed.				

Table 2. CL from this Verification

CL ID	01	Section no.	SDGs	Date: 17/12/2024
Description of CL				
<i>The proof for all the Sustainable Development Contributions (SDG) Achieved can be submitted.</i>				
Project participant response				Date: 27/01/2025
<i>The proof for all the Sustainable Development Contributions (SDG) Achieved are submitted.</i>				
Documentation provided by project participant				
Monitoring survey sheets Employment records ER sheet				
VVB assessment				Date: 17/02/2025
The proof for the SDG values has been submitted. CL is Closed.				

CL ID	02	Section no.		Date: 17/12/2024
Description of CL				
<i>PP is to submit the proof of manufacturing specification for both Smart and Jambo stove.</i>				
Project participant response				Date: 27/01/2025
<i>The manufacturing specification for both Smart and Jambo stoves are submitted.</i>				
Documentation provided by project participant				
Manufactures specification of ICSSs				
VVB assessment				Date: 17/02/2025
PD submitted the manufacturer specification now. CL is closed.				

CL ID	03	Section no.	D.1	Date: 17/12/2024
Description of CL				
PP is to provide the link for the following, ➤ FSI Report, 2021. ➤ Wood is Good, A status report by CSE, 2017. ➤ Kaul et al, 2008. ➤ Rajasthan Forest department Admirative report- 2022-23, page 98				
Project participant response				Date: 27/01/2025

<i>The weblinks are included in section D.1 of MR</i>	
Documentation provided by project participant	
<i>Revised MR</i>	
VVB assessment	Date: 17/02/2025
The weblinks are included in the MR. CL is closed.	

Table 3. CAR from this verification

CAR ID	01	Section no.	A.1	Date: 17/12/2024
Description of CAR				
<i>How the fuel wood consumption is calculated? The Data for fuel wood consumption has to be given.</i>				
Project participant response				Date: 27/01/2025
<i>The fuel wood consumption are determined through Kitchen performance test. The test results including the photographs are submitted</i>				
Documentation provided by project participant				
<i>KTP Test sheet</i>				
<i>Photographs</i>				
DOE assessment				Date: 17/02/2025
The explanation is provided by PD and the same is found to be acceptable. CAR is closed.				

CAR ID	02	Section no.	A.1	Date: 17/12/2024
Description of CAR				
<i>In the table of this section, the total number provided for the households ICS distributed (assuming 2 ICS per household) is listed as 18,951. However, upon summing up all the values, an inconsistent total is obtained. A correction is requested for this discrepancy.</i>				
Project participant response				Date: 27/01/2025
<i>The month wise installation number of ICS are corrected now and it is matching with the total ICS installed.</i>				
Documentation provided by project participant				
<i>Revised MR.</i>				
DOE assessment				Date: 17/02/2025
PD corrected the month wise installation details. CAR is closed.				

CAR ID	03	Section no.	A.2	Date: 17/12/2024
Description of CAR				
<i>PP is to rectify the following under this section,</i>				
<i>The India map provided should display all states of India, yet it only depicts the state of Rajasthan.</i> <i>The locations marked on the Rajasthan map are unclear. Please provide a clearer map of Rajasthan.</i>				
Project participant response				Date: 27/01/2025
<i>India map with display of all states are included</i> <i>Clear map of Rajasthan is now included.</i>				
Documentation provided by project participant				
<i>Revised MR</i>				
DOE assessment				Date: 17/02/2025
The requested corrections are done by PD. CAR is closed.				

CAR ID	04	Section no.	A.4	Date: 17/12/2024
Description of CAR				
<i>In this section, PP should incorporate the start date, end date, and duration of the Crediting Period as per the guidelines outlined in the GS template guide.</i>				
Project participant response				Date: 27/01/2025
<i>The start date, end date and crediting period duration are now included as per the template requirement</i>				
Documentation provided by project participant				
<i>Revised MR</i>				
DOE assessment				Date: 17/02/2025

PD provided the start date, end date and crediting period duration are now included as per the template requirement. CAR is closed

CAR ID	05	Section no.	B.1	Date: 17/12/2024
Description of CAR				
<i>In this section of Implementation of Project PP is to include the following,</i> <i>1. The distribution of ICS to beneficiaries should be provided either district-wise or taluk-wise.</i> <i>2. Provide images of both the GREENWAY JUMBO STOVE and the GREENWAY SMART cook stoves.</i>				
Project participant response				Date: 27/01/2025
<i>1. The taluk-wise distribution details are now provided</i> <i>2. The images of GREENWAY JUMBO STOVE and the GREENWAY SMART cook stoves are now included</i>				
Documentation provided by project participant				
Revised MR				
DOE assessment				Date: 17/02/2025
The requested details are provided by PD. CAR is closed.				

CAR ID	06	Section no.	C	Date: 17/12/2024
Description of CAR				
<i>The details regarding repaired and replaced stoves are not provided. It is essential to include this information in the MR (Monitoring Report), along with providing the monitoring details in an Excel sheet.</i>				
Project participant response				Date: 27/01/2025
<i>The information related to repairs & replacement of the stoves are included in the MR. Also the details are provided in the excel sheet.</i>				
Documentation provided by project participant				
Revised MR				
Repair details				
DOE assessment				Date: 17/02/2025
The requested information are provided by PD. CAR is closed.				

CAR ID	07	Section no.	Excel sheet	Date: 17/12/2024
Description of CAR				
<i>PP is to include the following in Excel sheet,</i> <i>1. Baseline survey.</i> <i>2. Monitoring survey.</i> <i>3. Project database and Project survey.</i> <i>4. Distribution details of all beneficiaries.</i>				
Project participant response				Date: 27/01/2025
<i>The monitoring survey sheets, project database, project survey sheet and distribution details of beneficiaries are already provided in the ER sheet. The baseline survey sheet is now submitted for reference.</i>				
Documentation provided by project participant				
Baseline Survey sheet.				
DOE assessment				Date: 17/02/2025
The requested information are provided by PD. CAR is closed.				

CAR ID	08	Section no.	D.1	Date: 17/12/2024
Description of CAR				
<i>1. In ICS 4, The PP states that the indoor air pollution level is reduced. It should be clarified how this reduction is monitored, possibly in terms of a percentage. Additionally, proof of the reduction through lab test results can be provided.</i> <i>2. In ICS 11, The value which is mentioned is inconsistent with ER sheet. PP is to rectify.</i>				
Project participant response				Date: 27/01/2025

1. The ICS4 is already verified during the validation and fixed the values ex-ante in the PDD. However, the required document are now provided for reference.	
2. The ICS 11 value is wrongly given for one year in MR which is now corrected to one day	
Documentation provided by project participant	
Lab test certificate for air pollution Revised MR	
DOE assessment	Date: 17/02/2025
1. Proof of lab test certificates are provided by PD	
2. The ICS 11 value is corrected now.	
CAR is closed	

CAR ID	09	Section no.	D.2	Date: 17/12/2024
Description of CAR				
1. PP needs to clarify how the data/parameter SFS _{b,p,y} is calculated and from where the value is obtained.				
2. How The Total non-renewable wood fuel saved is calculated. PP can include in the KPT or fNRB sheet of ER sheet.				
Project participant response				Date: 27/01/2025
1. The SFS _{b,p,y} is calculated as follows: $SFS_{b,p,y} = P_{b,y} - P_{p,y}$. the same is included in the MR for clarity				
2. The total non-renewable biomass saving calculation is provided in sheet SDG. Please refer Cell D8				
Documentation provided by project participant				
-				
DOE assessment				Date: 17/02/2025
The details provided by the PD is verified and found to be correct. CAR is closed.				

CAR ID	10	Section no.	D.3	Date: 17/12/2024
Description of CAR				
PP is to include all the data/Parameter values in the Comparison of monitored parameters with last monitoring period.				
Project participant response				Date: 27/01/2025
The Comparison of monitored parameters with last monitoring period is now provided in the MR				
Documentation provided by project participant				
Revised MR				
DOE assessment				Date: 17/02/2025
PD included the data/parameter comparison with last monitoring period now. CAR is closed.				

CAR ID	11	Section no.	E.4	Date: 17/12/2024
Description of CAR				
In this section, the value of SDG 3 which is mentioned for Project Estimate is inconsistent with ER sheet. And Baseline Estimate value has to be mention. PP is to rectify.				
Project participant response				Date: 27/01/2025
The SDG 3 value in section E.4 is corrected.				
Documentation provided by project participant				
Revised MR				
DOE assessment				Date: 17/02/2025
PD corrected the SDG 3 value and made consistent with other sections. CAR is closed				

CAR ID	12	Section no.	E.5 and E.5.1	Date: 17/12/2024
Description of CAR				
In these sections, the value of SDG 15 which is mentioned Values estimated in ex ante calculation of approved PDD for this monitoring period is inconsistent with ER sheet. PP is to rectify.				
Project participant response				Date: 27/01/2025

<i>The SDG 15 estimation is provided in the approved PDD; not in the ER sheet. VVB shall refer approved PDD for the estimated value.</i>	
Documentation provided by project participant	
-	
DOE assessment	Date: 17/02/2025
The explanation provided by PD is found to be appropriate. CAR is closed.	

CAR ID	13	Section no.	ER sheet	Date: 17/12/2024
Description of CAR				
<i>The database does not include the distribution date for about 500 units. PD shall include the same and the correct the ER as per the revised number of operating days.</i>				
Project participant response				Date: 27/01/2025
<i>The distribution date is included in for all units. The revised ER is now updated in the MR.</i>				
Documentation provided by project participant				
Revised ER sheet Revised MR				
DOE assessment				Date: 17/02/2025
PD incorporated the requested corrections. The revised ER is now updated by PD in the MR. CAR is closed.				

Table 4. FAR from this verification

FAR ID	01	Section no.	Pp,y	Date: 18/09/2025
Description of FAR				
<i>The approach for calculating Pp,y (Project fuelwood) for MP1 was found to be clear and correct. However, for subsequent monitoring periods, the calculation of SFCp,y should be applied as SFCp,y = SFCp,1 × (nnew,1 / nnew,y) in accordance with the methodology requirements. The Project Proponent is requested to implement this correction and ensure that the revised approach is consistently applied in future monitoring reports.</i>				
Project participant response				Date:
Documentation provided by project participant				
DOE assessment				Date:
