Verification and certification report for GS project activities

BASIC INFORMATION	
Title and GS reference number of the project activity	Title: Promoting Clean Cooking Solutions for the disadvantaged Households. GS reference no.: GS 6212
Scale of the project activity	Large-scale ☐ Small-scale ☒ Micro-scale ☐
Version number of the verification and certification report	2.1
Completion date of the verification and certification report	09/11/2023
Monitoring period number and duration of this monitoring period	6th (1st monitoring period of crediting period (CP 2)) Duration: 01/01/2022 to 31/12/2022 (including both days)
Version number of the monitoring report to which this report applies	2.1 of 31/10/2023
Crediting period of the project activity corresponding to this monitoring period	2nd Crediting Period (01/01/2022 to 31/12/2026)
Project participants (PP)	Value Network Ventures Advisory Services Pte. Ltd.
Host Party	Nepal
Applied methodologies and standardized baselines	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass -Version 12.0
Mandatory sectoral scopes	3 (TA 3.1) Energy Demand
Conditional sectoral scopes, if applicable	N/A
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	30,797 tCO_{2e}
Certified amount of GHG emission reductions or GHG removals for this monitoring period	28,340 tCO_{2e}
SDG Impacts:	• SDG 3: Ensure healthy lives and promote well-being for all at all ages. • SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all. • SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all. • SDG 13: Climate Action

Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	• SDG 3: Users' perception on smoke reduction and Incidence of disease ➢ Reduction in smoke: 94.37% ➢ Respiratory disease: 98.59%, ➢ Eye infection: 100%, ➢ Cough: 97.18% • SDG 7: Number of ICS under the project is 14,529 Numbers. • SDG 8: Number of Jobs Created is 15. • SDG 13: Emissions Reductions in this MP is 28,340 GS-VERs
Name and UNFCCC reference number of the DOE	E-0052: Carbon Check (India) Private Ltd.
Name, position and signature of the approver of the verification and certification report	 Vikash Kumar Singh, Compliance Officer

SECTION A. Executive summary

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The Project Participant, “Value Network Venture Advisory Services Pte. Ltd.” has appointed the Validation & verification body (VVB), Carbon Check (India) Private Ltd. (CCIPL) to perform sixth (6th) verification (1st of 2nd crediting period) of the GS Project Activity “Promoting Clean Cooking Solutions for the disadvantaged Households.in Nepal” (hereafter referred to as “Project Activity”). The objective of the Promoting Clean Cooking Solutions for the disadvantaged Households in Nepalis to improve health and incomes throughout Nepal; by reducing time and money spent acquiring fuel for household cooking. The project stoves are expected to replace the inefficient traditional stoves used in the baseline. As a result, the project results in reductions of CO2 emissions that are real, and measurable and gives long-term benefits to the mitigation of climate change.

This report summarizes the findings of the verification of the project, performed on the basis of gold standard for global goals (GS4GG), as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the 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 ERs. This report contains the findings and resolutions from the verification and a certification statement for the verified emission reductions.

Verification is the periodic independent review and ex-post determination of both quantitative and qualitative information by a Validation & verification body (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 Validation & verification body (VVB) that, during a specific period, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and certify emission reductions reported for the “Promoting Clean Cooking Solutions for the disadvantaged Households. in Nepal” in the host country “Nepal” for the period 01/01/2022 to 31/12/2022 (including both days).

The purpose of verification is to review the monitoring results and verify that the monitoring methodology was implemented according to the monitoring plan and monitoring data and used to confirm 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 registered project activity.

In particular, the monitoring plan, monitoring report and the project’s compliance with relevant GS 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 project design and conservative assumptions, as documented. It is also confirmed if the monitoring plan is in compliance with the registered/revised PDD and the approved monitoring methodology.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered PDD /2/
- To verify the implemented monitoring plan with the registered PDD /2/ 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.

Verification process:

The verification comprises a review of the monitoring report over the monitoring period from 01/01/2022 to 31/12/2022 (including both days) and based on the registered PDD ***/2/*** in part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet, monitoring methodology and all related evidence provided by project participant.

Document review and On-site interviews are also performed as part of the verification process.

Conclusion:

The verification team assigned by the Validation & verification body (VVB) concludes that the monitoring report (Version 2.1 dated 31/10/2023) ***/1/,*** meets all relevant requirements of the Gold Standard as per the requirements of GS4GG. The verification has been conducted in-line with the GS4GG requirements.

The project activity was correctly implemented according to the selected monitoring methodology, monitoring plan and the registered PDD***/2/.*** The monitoring system was implemented, and maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the document review and On-site interviews, the verification team confirms that the project activity has resulted in the 28,340 tCO2e SDG impact (as per ER) achieved in this monitoring period.

CCIPL as a Validation & verification body (VVB) is therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

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/ Technical Expert	IR	Sharma	Harish	CCIPL	X		X	X
2.	Local Expert	IR	Maharjan	Saina	CCIPL	**NA**	X	X	**NA**
3.	Trainee Assessor	IR	Kumar	Pankaj	CCIPL	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	IR	C	Indumathi	CCIPL
2.	Approver	IR	Singh	Vikash Kumar	CCIPL

SECTION C. Application of materiality

The threshold of materiality was evaluated based on "CDM Guideline: Application of materiality in verifications, version 02.0" **/19/.** It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 10% of 28,340 tCO2e which is equal to 2,834 tCO2e.

In planning the verification, verification team took cognizance of §11 and §12 of the " CDM Guideline: Application of materiality in verifications, version 02.0"**/19/** and a materiality threshold of 2,834 tCO2e is determined for the current verification of the project activity.

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the potential risk		Assessment of the records/information/interview with personnel to check controls/ mitigation measures
		Risk level	Justification	
1.	Human Error: Recording and reporting of the information in the ER spreadsheet.	Medium	All the ER spreadsheet data of the stoves/water purifiers, including sales database, determination of parameters for efficiency testing including data calculation. This includes all the parameters to be monitored ex-post as per	The risk was mitigated by reviewing the training records of the personnel involved in the data capture and calculations. The monitoring responsibilities were reviewed. Also, the ER data/calculations were cross-checked to insure error-freedata.

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the potential risk		Assessment of the records/information/interview with personnel to check controls/ mitigation measures
		Risk level	Justification	
			the PD	
2.	Information System: Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability, security	Medium	The data is recorded in spreadsheets based on the raw data collected during the field visits. Access tothe spreadsheets for calculation of ERs,monitoring and salesdatabase and baseline project & baseline, and other test records.	The identified risk was mitigated by reviewing the management of access to the records. It was confirmed through interviews whether the raw data is collected by the field personnel and then transmitted and stored electronically to the PP's office. The data quality control to be checked.
3	Sample	Medium	The sample size is not suitable, or the surveyed plants are not random (If applicable)	Cross-check the procedure to identify the sample size against the sampling guideline and standard and confirm the sample size is calculated correctly.
4	Competence of personnel involved in conducting Interviews.	Medium	Interview of the personnel involved and check the training records/accreditation certificates involved in conducting such tests.	The risk was mitigated by reviewing the training records of the personnel conducting such tests and following the monitoring responsibilities. For institutions involved in conducting such tests, their accreditation certificates were checked to establish their competence. The training records and certificates were reviewed which will also be confirmed during the onsite interview

C.2. Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications, version 2.0 **/19/,** a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records was done by the verification team and compared with the values indicated in the emission reduction spread sheet.

Some inconsistencies were identified and subsequently findings were made. These findings are detailed in Appendix 4 and they were successfully closed. Therefore, related identified mistakes as listed in findings in Appendix 4 to this report have been determined to be immaterial. And thus, it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

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/,** emission reduction worksheet **/3/** and supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology. Documents reviewed or referenced during the verification are listed in Appendix 3 below.

D.2. On-site inspection

In line with GS4GG "Principal and Requirement" version 1.2**/5/** and "GS site visit and remote audit requirement" v2.0**/20/,** VVB has conducted an on-site inspection for verification of scale project activity on 2nd August 2023. The following activities have been carried out during the on-site visit.

The verification team has carried out on-site interviews with enumerators involved in monitoring to assess the information included in the project design document, and stakeholder consultation report. During the desk review, the relevant records related to project design, implementation and operation were checked, stakeholders engaged, and implementing agency and on-site beneficiary interviews were taken on a sampling basis.

The verification team applied a sampling approach for on-site interviews as part of verification in accordance with paragraph 26 of the Standard: Sampling and surveys for CDM project activities and programs of activities, Version 09.0. In accordance with paragraph 28 of the sampling standard, acceptance sampling has been chosen by the verification team, and accordingly, the steps listed in paragraph 29 of the sampling standard were followed. So, in accordance with paragraph 39 (c) of the sampling standard the Verification team opted for AQL of 0.5% and UQL of 20%; producer risk of 10 %, and consumer risk of 5 % in determining the VVB's sample size for which the sample size (n) is 8 with acceptance number (c) 0.

The verification team assessed the survey database of 75 samples of survey conducted by PP for this monitoring period. For the representative sample selection for the VVB's acceptance sampling, end users were randomly selected from the list of 75 samples using a random function (=rand between (1, 75)) in MS excel. Once the eight random numbers were generated, the end users were selected accordingly as per the serial numbers generated. Total 8 numbers of end user were selected for acceptance sampling.

The on-site interview was performed by a verification team as given in the table below.

D.3. Interviews

Interviews of cookstove users were taken by a Verification team. All surveys were conducted in person and photos of end users and GPS coordinates were taken as records. Submitted photos, snapshots, and ER sheets maintained of the site survey were checked by the verification team to confirm. The VV plan was shared with the PD on dated 27/07/2023. In line with the VV plan, the VVB team has interviewed the PD team members involved in the survey and the 8 end users.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1	Sah	RamPrabesh	EPC Nepal	02-08-2023	Project Design, ownership, details, carbon credit sharing agreement, monitoring, and reporting arrangement, QA/QC procedure,	Harish Sharma, Pankaj Kumar & Saina Maharjan
2	Yadav	Ashok Kumar	EPC Nepal	02-08-2023		
3	Yadav	Santosh Kumar	EPC Nepal	02-08-2023		

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
4	Kant	Sandeep	EPC Nepal	02-08-2023	baseline assessment, project technology, MR preparation, GS requirement, emission reduction calculations, methodology applicability, start date justification etc., survey report methodology, assessment sample selection, result etc.	
5	Riijal	Neelam Sharma	Prakriti Consult Pvt. Ltd. (Nepal)	02-08-2023		
6	End users			02-08-2023		

Outcome of interview with end users:

CCIPL team has interviewed various project cookstove owners. The stove owners were questioned about the experience of owning the improved cookstove, the difference they find between the traditional cookstove and ICS and about their fuel savings. The list of the stove owners visited are as follows:

Sr. No.	Name of the user	District	VDC	Installation date	ICS ID	Information verified/Questions asked	Interview Date	Feedback
1	Ramaesar Sahani	Rautahat	Kanakapur	02/11/2021	GSC-06361	- Ownership proof/end user agreement -Functional status of the ICS - Users were asked to fire the ICS -Users were asked about fuel consumption quantity difference from baseline. -Users were asked about fuel collection time difference from baseline. - Asked whether any other cooking devise was used during the MP. - Any improvement related to air quality compared to baseline. -Whether user is aware of grievance mechanism and whom to contact	02-08-2023	ICS operational & Positive feedback on SD parameters
2	Saraswati Majhi	Rautahat	Kanakapur	02/06/2021	GSC-27195		02-08-2023	
3	Husan Dewan	Rautahat	Kanakapur	2/19/2021	GSC-12470		02-08-2023	
4	Nain Kumar Sah	Siraha	Kanakapur	2/26/2021	GSC-20681		02-08-2023	
5	Ram Sebak Sah	Siraha	Kanakapur	2/25/2021	GSC-20675		02-08-2023	
6	Bajarangi Sah	Siraha	Kanakapur	2/29/2021	GSC-20668		02-08-2023	
7	Bharat Sah	Siraha	Kanakapur	2/24/2021	GSC-18925		02-08-2023	
8	Ranjit Chaudhary	Rautahat	Kanakapur	2/13/2021	GSC-06394		02-08-2023	

D.4. Sampling approach

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PP's sampling approach:

PP has proposed a simple random sampling plan using 90/10 as confidence / precision. This is in line with the applied methodology **/4/.** The sample size for each parameter is determined following guidelines for Sampling and Surveys for CDM Project activities and Program of Activities Ver. 9.0 (EB86, Annex 4) **/9/.**

CCIPL's verification sampling approach:

CCIPL has considered para 39 (a) of "Standard for Sampling and surveys for CDM project activities and programs of activities, Version 09.0" for determining the sampling size to be visited by verification team /9/. In case of the current verification, the estimated emission reduction is 28,340 tCO2e per year, the verification team determined the sample size for acceptance sampling by evaluating the following, using its own professional judgment and guidance in the Standard 'Sampling and surveys for CDM project activities and program of activities' version 09.0 /9/: Considering Acceptable Quality Level (AQL): 0.5% Unacceptable Quality Level (UQL): 20% and producer risk of 5% and consumer risk of 20% a sample size of 8 was required as per Table 2 in the referred Standard /9/. Acceptance number (c) thus determined for the sample size is 0. CCIPL verified 08 samples to verify the project activity. The verification team selected random samples from PP's sample list. Verification team has assessed (by on-site interview) a total of 8 samples. The stoves details (unique serial number, date of installation, type of ICS, name of user and address) were also checked and found to be consistent with that reported in the installation database. No inconsistency was observed for any of the 8 samples with respect to on-site interviews that were reported in the stove installation database. This assessment of the selected samples was done to ascertain the implementation status of the project activity w.r.t. the stove types, serial number, location etc. of ICS.

SECTION E. Verification findings

E.1. Remaining forward action requests from validation and/or previous verifications

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Not Applicable

E.2. Compliance of the project implementation and operation with the registered project design document

Means of verification	CCIPL by means of document review and on-site interview, assessed that all the features (technology, project equipment, and monitoring) of the registered PDD **/2/** are in place and that the project participants have operated the project as per the registered/ PDD **/2/.** The location of the project activity is clearly defined in the registered PDD **/2/.** PP has implemented a project in Nepal that seeks to Promoting Clean Cooking Solutions for the disadvantaged Households of Nepal by reducing the time and money spent acquiring fuel for household and institutional cooking. The NEP/STAR 2 stove is a is biomass based natural draft single pot stove with side feeding the verified**/13/** specification of the NEP/STAR 2 stove is as below: External Body: Mild Iron (Thickness: 2 mm); (L x B x H = 27x26x27 mm) Thermal Efficiency: 27.88% Based on a review of the documents and On-site interview, the verification team confirms that up to the reported monitoring period, the PD has distributed /2/ total of 14,529 improved cookstoves. As verified during the On-site interviews, the project implementation and operation, and the physical features of the project stoves comply with the registered project design document **/2/.** The verification team has checked the information in the monitoring report /1/ and compared it against the registered/ PDD **/2/** and found it consistent. During the On-site interviews, the verification team checked the project location, implementation, technology applied, project equipment, physical features, and monitoring system against the information in the registered PDD **/2/.**
Findings	N/A
Conclusion	The verification team confirms that: a) The project activity is implemented as per registered PDD**/2/.** b) The actual operation of the proposed GS project activity is in line with the registered/ PDD**/2/.** In summary, the monitoring period is reasonable, and the operation of the project activity is in accordance with the registered PDD **/2/.**

E.3. Post-registration changes

E.3.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents[1].

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Not Applicable

E.3.2. Corrections

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Not Applicable

E.3.3. Changes to the start date of the crediting period

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Not Applicable

[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).

E.3.4. Inclusion of a monitoring plan

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Not Applicable

E.3.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

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Not Applicable

E.3.6. Changes to the project design

>>Not Applicable

E.3.7. Changes specific to afforestation and reforestation project activities.

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Not Applicable

E.4. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents.

Means of verification	During this monitoring period, the validated and registered monitoring plan was found to be in accordance with the applied methodology **/4/**.
Findings	N/A
Conclusion	The verification team has confirmed the monitoring plan from registered PDD**/2/** and applicable tools used during this monitoring period. The verification team has confirmed the monitoring procedures during the on-site interviews with enumerators, stakeholders and end users and from document review by means of comparison with the information given in the monitoring plan and grievance mechanism. As per section G.1 of MR**/1/,** no grievances/input were received by PP during this monitoring period. Verification team confirms that the monitoring plan and grievance mechanism is in accordance with the approved methodology **/4/** and registered PDD **/2/.**

E.5. Compliance of monitoring activities with the registered monitoring plan

E.5.1. Data and parameters fixed ex ante or at renewal of crediting period.

Means of verification

The following ex-ante parameters are considered in the calculation of the emission reductions:

Parameter	Value	Description/Assessment
Annual quantity of woody biomass that would have been used in the absence of the project activity ($B_{old,i,j}$) in Tonnes /year	4.23 tonne/household/year	Verification team as checked the ER sheet**/3/** & PDD**/2/** and found that the value for (Bold,i,j) is considered from approved methodology **/4/** and in line with PDD**/2**/. So, the default value is acceptable.
Efficiency of the system being replaced (Traditional Cooking Stoves) ($\eta_{old,i,j}$)	10%	Verification team has checked the ER sheet**/3/** & PDD**/2/** and found that the value for ($\eta old,i,$j) is considered from approved methodology **/4/** and in line with PDD**/2/.** So, the default value is acceptable.
Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$ (Fraction)	86.1%	National value for the NRB provided by the host country DNA and calculated using "Tool 30: Calculation of the fraction of non-renewable biomass Version 03**"/8/.** Verification team has assessed report, efficiency of ICS

			is acceptable and in line with approved PDD**/2/.**
	Net calorific value of the non-renewable woody biomass that is substituted. ($NCV_{biomass}$) in TJ/Tonne	0.0156	Verification team has checked the ER sheet**/3/** & PDD**/2/** and found that the value for (NCVbiomass) is considered from approved methodology **/4/** and in line with PDD**/2/.** So, the default value is acceptable.
	Emission factor for the substitution of non-renewable woody biomassby similar consumers ($EF_{projected\_fossilfuel}$) in tCO_2/TJ	64.4	Verification team has checked the ER sheet**/3/** & PDD**/2/** and found that the value for (EFprojected_fossilfuel) is considered from approved methodology **/4/** and in line with PDD**/02/.** So, the default value is acceptable.
	Leakage adjustment factor (Ly) (fraction)	0.95	Net to gross Adjustment Factor. Default value as per the applied methodology **/4/.** Verification team has checked the ER sheet**/3/** & PDD**/2/** and found that the value for Leakage adjustment factor(Ly)is considered from approved methodology **/4/** and in line with PDD**/2/.** So, the default value is acceptable.
Findings	CAR 08 has been raised to clear the value of f_{NRB} which is not in line with upload PDD on GS registry portal and has been resolved. Refer appendix 4.		
Conclusion	The verification team confirms that the data and parameters fixed ex-ante are in compliance with the registered/ PDD /2/ and monitoring plan. Please refer to the Annex 5 for assessment of each parameter.		

E.5.2. Data and parameters monitored.

Mean of Verifications	SDGs	Parameter	Value	Description/Assessment
	13	Proportion of commissioned project devices of type i and batch j that remain operating in year y **Ny,i,a** (Number)	94.67 %	As detailed in section E.4.6 above, the project covers 14,527 ICS. PP has monitored the number of project ICS in operation based on sampling survey. As per survey of 75 samples. Hence, 94.67% of the total ICS considered operational during the monitoring period. As detailed in section D.4 above, CCIPL verified 8 samples of project ICS and found all ICS were in operation. Hence, PP's information is considered acceptable.
	13	Efficiency of the device of each type I and batch j implemented as part of the project activity (ηnew,l,j)	26.57 % for year-2	As per para 37 (a) of the methodology AMS II.G. version 12, a default schedule of linear decrease in efficiency up to the terminal efficiency assumed as 20 per cent has been applied. The stove replacement started from 1st of January 2021. So, for the first year (1st January 2021 to 31st December 2021), the stove efficiency is applied as 26.57%. At the end of the 6-

				year, efficiency will be 20% as it is considered as terminal efficiency. In line with the applied methodology the efficiency is considered correctly.
	13	µy - Adjustment to account for any continued use of pre-project devices during the year y	95.07%	This is assessed through users interviews during the monitoring. Survey (ICS User's Survey), the continuous use or drop-off rate of the ICS will be checked during the survey. In line with the applied methodology the efficiency is considered correctly.
	13	Life Span	6 years	Through OEM technical specification the life span is consider 6 years.
	13	Date of Commissioning of batch j	1st January 2021 to 30th April 2021	The information is as per PDD**/2/**
	13	Date of Commissioning of the project device i	1st January 2021 to 30th April 2021	The information is as per PDD**/2/**
	13	Nd,HH - Number of project devices distributed per household	1 no.	Through surveyed of 8 HHs sample and distribution card. Verification team found that all household has 1 ICS each.
	13	NCVbiomass - Net calorific value of the non-renewable woody biomass that is substituted	0.0156 TJ/tonne	As specified in the approved methodology AMS II.G/v12 IPCC default for wood fuel, 0.0156 TJ/tonne
	3	Users' perception on smoke reduction and Incidence of disease	Reduction in smoke perceived by the HH: 94.37% Reduction in respiratory disease perceived by the HH: 98.59% Reduction in eye infection perceived by the HH: 100% Reduction in cough perceived by the HH: 97.18%	PP has monitored the Users' perception on smoke reduction and Incidence of disease based on User Survey-2022. CCIPL verified with 8 HHs and found result positive and as per User Survey-2022/15/ submitted by PP. Hence, PP's information is considered acceptable.

	7	No,i,j - Number of project device of type i, and batch j commissioned	14,529 nos.	As detailed above, the project cover 14,529 ICS commissioned but two ICS were non-operational from last monitoring period. PP has monitored the number of project ICS in operation based on sampling survey. As per survey of 75 samples/9/. Hence, 95.07% of the total ICS considered operational during the monitoring periods. Hence, 14,527 is correctly considered for this monitoring periods and in ER calculation as well. As detailed in section D.4 above, CCIPL verified 8 samples of project ICS and found all ICS were in operation. Hence, PP's information is considered acceptable.
	7	Livelihood of poor	Perception of HH in reduction in time for fuel collection: 97.18% Perception of HH in reduction in time for Cooking: 98.59%	PP has monitored the livelihood of poor based on User Survey-2022. CCIPL verified with 8 HHs and found result positive and as per User Survey-2022/15/ submitted by PP. Hence, PP's information is considered acceptable.
	8	Number of Jobs Created	15 employees by EPC were employed for the project implementation phase.	The Verification team team has assessed letter submitted by PP to Nepal SBI and through onsite inspection for the respective monitoring period confirms that the PP information is acceptable.
Findings	CL 01 was raised to check the version of the methodology and has been resolved. Refer appendix 4.			
Conclusion	The verification team confirms that the data and parameters monitored are in compliance with the registered/revised PDD ***/2/*** and the monitoring plan provided in registered PDD***/2/*.** It is confirmed that the verification team assessed the data/information flow from the point of monitoring to emission reduction calculation and found no gap in the same.			

E.5.3. Implementation of sampling plan

Mean of Verifications	Monitoring surveys were conducted during the current monitoring period. The total population of the stoves under project activity considered for the monitoring period is 14,529. The monitoring parameters monitored through the sampling plan are: 1. $U_{p,y}$ - Usage rate in project scenario p during year y 2. $N_{p,y}$ - Project technologies credited (units) The target population is the 14,529 ICS considered under the project activity. The sampling frame is homogenous within itself, with respect to service level, established ex-ante baseline and user characteristics. The PP considered 75 ICS for survey, Sampling-based monitoring was carried out for two monitoring parameters: Usage rate and Project Fuel consumption. Random sampling was applied for the project activity by PD for the selection of the monitoring samples with 90/10 confidence/precision for all the parameters of annual monitoring which is deemed acceptable as per the registered PDD. Out of 75 samples surveyed, 4 samples were found non-operational. So the 94.67% ICS was found to be operational during the monitoring period. Applying the random number generator, the cookstoves were randomly picked from the defined population up to the required sample size as calculated by the PDD. The verification team confirms that the applied method for sample size calculation is in accordance with the registered PDD. The sampling plan implemented by the PDD is in accordance with the approved monitoring methodology and the PDD. The PDD has appropriately performed the Random Sampling procedure in line with the applied methodology and registered PDD and is best suited for this type of project. The verification took cognizance of "AMS II.G, version 12"**/4/** and registered/ revised PDD**/2/.** The verification team applied a sampling approach for on-site interviews as part of verification in accordance with paragraph 26 of the Standard: Sampling and surveys for CDM project activities and programs of activities, Version 09.0. In accordance with paragraph 26 of the of "Standard for Sampling and surveys for CDM project activities and programs of activities, Version 09.0" for determining the sampling size to be visited by verification team **/9/.** In case of the current verification, the estimated emission reduction is 28,340 tCO2e per year, the verification team determined the sample size for acceptance sampling by evaluating the following, using its own professional judgment and guidance in the Standard 'Sampling and surveys for CDM project activities and program of activities' version 09.0 **/9/:** Considering Acceptable Quality Level (AQL): 0.5% Unacceptable Quality Level (UQL): 20% and producer risk of 5% and consumer risk of 20% a sample size of 8 was required as per Table 2 in the referred Standard **/9/.** Acceptance number (c) thus determined for the sample size is 0. CCIPL verified 08 samples to verify the project activity. The verification team selected random samples from PP's sample list. Verification team has assessed (by on-site interview) a total of 8 samples were found in order and operational.
Findings	CL 04 was raised as the approach methodology for sampling and has been resolved. Refer appendix 4.
Conclusion	The necessary confidence/precision of 90/10 for each of the parameters is met. This has been cross verified by the verification team from the supporting documents submitted and through random acceptance sampling.

E.6. Compliance with the calibration frequency requirements for measuring instruments.

Means of verification	There is no monitoring equipment involved in monitoring of the required parameters. Hence, no calibration requirement applicable for the project activity.
Findings	N/A

Conclusion	N/A

μ_y

E.7. Assessment of data and calculation of emission reductions or net removals

E.7.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

>> Since the emission reduction is directly calculated as per methodology formula baseline GHG emissions are not separately calculated. So not applicable

E.7.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

>> NA

E.7.3. Calculation of leakage GHG emissions

Means of verification	The Net to Gross Leakage Adjustment Factor has been included in the emission reduction calculations applying adjustment factor 0.95 as per paragraph 38 (c) of the applied methodology. The leakage is considered. Considering the leakage of 5% (as per the methodology), it is accounted as 1,492 tCO_{2e}.
Findings	N/A
Conclusion	N/A

E.7.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	The baseline emission reduction has been calculated using following formulae: **ERy,i,j = By,savings,i,j x No,i,j x Ny,i,j x µy x fNRB,y x NCVbiomass x EFprojected_fossilfuel**		
	By,savings,i,j	=	Quantity of woody biomass that is saved in tonnes per cookstove device of type i and batch j during year y. By,savings is calculated as following: By,savings = Bold * (1-ηold/ ηnew). Bold is fixed ex-ante to be 4.23 tonne/household/year as per registered PDD /2/. ηold is also fixed ex-ante to be 10% default as per the methodology /4/. η new for this monitoring period is 26.57%. PP choose default linear decrease in efficiency and accordingly from initial efficiency is applied for the first year of its operation. A linear decrease in efficiency shall be applied every year for its 6-year life span. This is in line with the methodology and hence accepted.
	No,i,j	=	Number of project device installed (14529 device are installed however 2 ICS were found non-operational during last monitoring. So, 14,527 ICS are considered for the ER calculation in this MP)
	Ny,i,j	=	Proportion of commissioned project devices of type I and batch j that remain operating in year y (94.67%)
	µy	=	Adjustment to account for any continued use of pre-project devices during year "y" (95.07%) fNRB,y : Fraction of woody biomass that can be established as non-renewable biomass (86.1% fixed ex-ante)
	NCVbiomass	=	Net calorific value of the non-renewable woody biomass that is substituted (0.0156 TJ/tonne)
	EF projected_fossilfuel	=	Emission factor for the substitution of non-renewable woody biomass by similar consumers (64.4 TJ/ton)
	As per paragraph 29 of the applied methodology and PDD, By,savings,i,j is multiplied by a net to gross adjustment factor of 0.95 to account for leakage. Therefore, Ery is realized during the monitoring period is 28,340 tCO2		

Findings	N/A
Conclusion	The verification team confirms that the calculation of baseline emission and emission reductions is in accordance with the applied methodological equation and the registered PDD/2/. Calculations have been checked and confirmed from the ER spreadsheet**/3/.** The verification took cognizance of AMS II. G; Version 12**/4/** Registered PDD**/2/** and GS4GG requirements**/5/.**

E.7.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD.

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report revision 2.1 of 31/10/2023 **/1/** is equivalent to 28,340 tCO2e. which is 8% less than estimated emission reductions of 30,797 tCO2e for the monitoring period.
Findings	N/A
Conclusion	The emission reduction calculations provided in the spreadsheet **/3/** have been verified to be correct and in line with the final PDD **/2/.**

E.7.6. Remarks on difference from estimated value in registered PDD

Means of verification	The achieved emission reductions are 8% less than estimated emission reductions. The reduction is due to reduction is operational status of project ICS and effective number of days considered for the monitoring period.
Findings	N/A
Conclusion	Conservative approach is applied for adjustment of emission reductions based on survey results and methodology requirements

E.8. Assessment of reported sustainable development co-benefits.

Data Variable	Source of Data	Reported value for the project period
Users' perception on smoke reduction and Incidence of disease (SDG 3)	Survey report /15/	Reduction in smoke perceived by the HH: 94.37% Reduction in respiratory disease perceived by the HH: 98.59% Reduction in eye infection perceived by the HH: 100% Reduction in cough perceived by the HH: 97.18%
Assessment		
As per third party survey the sample end users reported positive feedback related to health and illness compared to baseline scenario. The monitoring procedure is as per registered monitoring plan and verification team also interviewed end users who confirmed positive feedback related to health and illness.		

Data Variable	Source of Data	Reported value for the project period
Reduction in fuel collection time and cooking time (SDG 7)	Survey report /15/	97.18% responded positively for reduction in fuel collection time and 98.59% for cooking time reduction.
Assessment		
Under livelihood of poor, PP is targeting to monitor 'Reduction in fuel expenditure/reduction in fuel collection time' which has been done by third party surveyor from sample end users. 97.18% sampled users responded positively for reduction in fuel collection time and 98.59% for cooking time reduction. The		

<table>
<tr><td></td><td>
monitoring procedure is as per registered monitoring plan and verification team also interviewed end users who confirmed positive feedback related to fuel collection time.
<table>
<tr><td>Data Variable</td><td>Source of Data</td><td>Reported value for the project period</td></tr>
<tr><td>Number of Jobs Created (SDG 8)</td><td>PP letter to Nepal SBI</td><td>15 employees by EPC were employed for the project implementation phase.</td></tr>
<tr><td colspan="3">Assessment</td></tr>
<tr><td colspan="3">The Verification team has assessed PP letter to Nepal SBI and through onsite inspection for the respective monitoring period confirms that the PP is information is acceptable.</td></tr>
</table>
<table>
<tr><td>Data Variable</td><td>Source of Data</td><td>Reported value for the project period</td></tr>
<tr><td>Emission Reduction (SDG 13)</td><td>ER sheet</td><td>28,340</td></tr>
<tr><td colspan="3">Assessment</td></tr>
<tr><td colspan="3">Verification team has assessed the ER sheet of the project activity and confirms that the quantified ERs of the project the current monitoring period are 28,340 tCO_{2e}. The detailed calculations provided in the ER sheet deemed to be correct and acceptable.</td></tr>
</table>
</td></tr>
<tr><td>Findings</td><td>CAR raised and has been resolved. Refer appendix 4.</td></tr>
<tr><td>Conclusion</td><td>CCIPL confirms that monitoring of all the sustainable development monitoring parameters during this monitoring period is in line with the SD monitoring plan and are consistent with off-site visit observations.</td></tr>
</table>

Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values achieved during this monitoring period
13		
Emission Reduction	30,797	28,340
3:		
Users' perception on smoke reduction and Incidence of disease	100%	Reduction in smoke: 94.37% Respiratory disease: 98.59%, Eye infection: 100%, Cough: 97.18%
7:		
Number of ICS under the project	14,721	14,529
Reduction in fuel collection time and cooking time	100%	Perception of HH in reduction in time for fuel collection: 97.18% Perception of HH in reduction in time for Cooking: 98.59%
8:		
Number of Jobs Created	15 employees	15 employees

Comparison of monitored parameters with last monitoring period.

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
$n_{y,i,a}$	94.67%	97.33%
$\eta_{new,i,j}$	26.57%	27.88%

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
μ_y	95.07%	97.26%
$N_{d,HH}$	1	1
$NCV_{biomass}$	0.0156	0.0156
Air Quality (Users' perception on smoke reduction and Incidence of disease)	Smoke Reduction: 94.37% Respiratory disease: 98.59% Eye infection: 100% Cough: 97.18%	Smoke Reduction: 100% Respiratory Disease: 98.63% Eye Infections: 100% Cough: 98.63%
$\mathbf{N_{o,i,j}}$	14,529	14,529
Livelihood of poor (Reduction in fuel collection time and cooking time)	Perception of HH in reduction in time for fuel collection: 97.18% Perception of HH in reduction in time for Cooking: 98.59%	Perception of HH in reduction in time for fuel collection: 97.26% Perception of HH in reduction in time for Cooking: 98.63%
Quantitative employment and Income Generation (Number of Jobs Created)	15 employees	15 employees

SECTION F. Internal quality control

>>

The final verification report passed a technical review before being submitted to the Gold Standard. The technical review is performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for GS validation and verification.

SECTION G. Verification opinion

>>

Carbon Check (India) Private Ltd. (CCIPL) has performed the Sixth (6th) periodic verification of the registered GS Project Activity "Promoting Clean Cooking Solutions for the disadvantaged Households in Nepal" GS 6212.

The verification team assigned by the VVB concludes that the project activity titled "Promoting Clean Cooking Solutions for the disadvantaged Households in Nepal" as described in the PDD (Version 5, date 20/04/2022) ***/2/*** and the Monitoring report (version 2.1, dated 31/10/2023) ***/1/*****,** meets all relevant requirements of the Gold Standard. The verification has been conducted in line with the GS4GG requirements ***/5/*** for project activities.

Verification methodology and process

The Verification team confirms the contractual relationship signed on 14/02/2023 between the VVB, Carbon Check (India) Private Ltd., and the Project Participant, Value Network Ventures Advisory Services Pte. Ltd. The team assigned to the verification meets the CCIPL's internal procedures including the GS requirements for the team composition and competence. The verification team has conducted a thorough contract review as per GS4GG and CCIPL's procedures and requirements.

The verification has been performed as per the requirements described in the GS4GG and constitutes the review and completion of the following steps:

- Reviewing the registered PDD (Version 5, date 20/04/2022) ***/2/*****,** including the monitoring plan and the corresponding verification report.
- Desk review of the verification report MR ***/1/*** and other relevant documents including documents related to the project activities in emission reductions.
- Review of the applied monitoring methodology (Energy Efficiency in thermal application of non-renewable biomass; AMS II. G, version 12 ***/4/*****.**

- On-site interview (02/08/2023)
- Resolution of CARs and CLs raised during verification.
- Issuance of Verification Report

The project activity was correctly implemented according to the selected monitoring methodology, monitoring plan, and the registered PDD. The monitoring system was installed, and maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the document review and on-site interview, the verification team confirms that the project activity has resulted in 28,340 tCO2e emission reductions during the 6th monitoring period (1st of 2nd crediting period).

This statement covers the verification period from 01/01/2022 to 31/12/2022 (including both the dates).

The Verification team has raised 05 clarifications and 11 corrective action requests, all of which are closed.

The Verification team considers necessary to give reasonable level of assurance that reported GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology and the monitoring plan contained in the registered PDD are fairly stated.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CCIPL	Carbon Check India Pvt. Ltd.
CL	Clarification Request
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS4GG	Gold Standard for Global Goals
ICS	Improved Cooking Stoves
IPCC	Intergovernmental Panel on Climate Change
LDC	Least Developed Country
LSC	Local Stakeholder Consultation
MP	Monitoring Plan
MR	Monitoring Report
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
SDG	Sustainable Development Goals
SS(s)	Sectoral Scope(s)
UNFCCC	United Nations Framework Convention on Climate Change
VNV	Value Network Ventures Advisory Services Pte. Ltd.
VVB	Validation and Verification Body

Appendix 2. Competence of team members and technical reviewers

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Harish Sharma

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
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☐ Financial 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 10.1	☒ TA 13.1	☐ TA 13.2
☐ TA 14.1	☐ TA 15.1			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

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
☒ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☒ Financial Expert	☒ Local Expert for India and Sri Lanka		

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 10.1	☒ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Appendix 3. Documents reviewed or referenced.

No.	Title	Provider
/1/	GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02_13/09/2023 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02.1_31/10/2023	PP
/2/	GS6212_PDD_CP-2_V05_Clean_20/04/2022	PP
/3/	GS6212_Ex-ante_ER Calculation_CP-2_MP-1_13/09/23 GS6212_Ex-ante_ER Calculation_CP-2.1_MP-1_31/10/23	PP
/4/	Energy efficiency measures in thermal applications of non-renewable biomass (AMS II.G) _version 12.0	Publicly
/5/	Gold Standard for the Global Goals (GS4GG) Principles & Requirements	Publicly
/6/	GS6212_GS6212_PDD_RCP_V04_24/11/21 (Validation Report)	PP
/7/	Nepal Interim Benchmark for Solid Biomass Cookstoves (NIBC, 2016) (EN) (1)	PP
/8/	f_{NRB} confirmation by Designated National Authority (DNA); Ministry of Forest and Environment of Nepal_2022	PP
/9/	Sampling and surveys for CDM project activities and programmes of activities v9	Publicly
/10/	GS6212_Households (HHs)Database	PP
/11/	LDC Country Information	Publicly
/12/	Promotion of the Improved Cooking Stove (ICS) – Nepal (PoA)	PP
/13/	NEP Star-2_OEM Specification	PP
/14/	Renewable Energy Test Stations (RETS) Report	PP
/15/	GS6212_ICS User Survey-2022	PP
/16/	Employment Record	PP
/17/	GS 6212_CP-2_MP-1_IQ_SDG-Impact-Tool	PP
/18/	GS Validation and Verification Standard; version 1.0	Publicly
/19/	Guideline: Application of materiality inverifications, version 2.0	Publicly
/20/	GS Site Visit and Remote Audit Requirement, version 2.0	Publicly

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

Clarifications (CLs)

Table 1 CLs from this verification

CL ID	**01**	**Section no.**	**D.1**	**Date: 11/08/2023**
Description of CL				
The version of methodology in D.1 section is not in line with PDD. PP shall clarify.				
Project participant response				**Date: 13/09/2023**
The version of the methodology has been corrected to the one that has been applied in the monitoring report.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the MR and understand that PP has referred the same version methodology in line with certified PDD v5. But PP has not updated version at page number 63 in APPENDIX 4. **CL 01 is open.**				
Project participant response				**Date: 05/10/2023**
The point raised by the VVB tends to trigger correction in the registered PDD. This firstly does not come under the purview of verification and, secondly and more importantly, the stated reference to version 9 is contextual in the section as it discusses what has changed as a part of design change while the project was being presented for design change. PP would like to request VVB to focus on verification of the subject project.				
Documentation provided by project participant				**Date: 05/10/2023**
N/A				
VVB assessment				**Date: 13/10/2023**
VVB has assessed the MR v2.0 and found that PP has updated the version of the applied methodology. **#CL 01 is Closed.**				

CL ID	**02**	**Section no.**	**D.2**	**Date: 11/08/2023**
Description of CL				
The number of ICS not in line with section B.1 monitored parameters not complying with section B.1. PP to clarify.				
Project participant response				**Date: 13/09/2023**
The total number of the ICS commissioned in 14,529 and the same is also mentioned in section B.1. PP however is aware of the likely confusion caused by the 14,527 ICS that are considered for the emissions reductions. Since the 2 ICS were found to be non-operational during previous monitoring period, the PP indicated that for the ER calculation in current MP the total eligible stoves would only be 14,527 ICS conservatively.				
Documentation provided by project participant				
N/A				

VVB assessment	Date: 25/09/2023
VVB has assessed the PP response and through review of ER Sheet confirm that for the ER quantification, PP has considered 14,527 number of cookstoves only. Which is conservative. **CL 02 is closed.**	

CL ID	03	Section no.	D.3	Date: 11/08/2023
Description of CL				
In section D.3, the table shows 97.18% reduction in fuel collection time and 98.59% reduction in cooking time. PP shall clarify how the introduction of ICS can translate to such significant reduction in collection and usage time.				
Project participant response				**Date: 13/09/2023**
The project developer would like to clarify that parameter under consideration is the perception of the households. This doesn't imply that the fuel collection time has reduced by 97.18% of the time originally required; rather, this informs that out of the total households surveyed 97.18% affirmed that time required to collect fuel has reduced in some way after the installation of the ICS. So, the information is now updated accordingly.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the PP response and MR and found that PP has updated/rephrase the sentence confirming that reduction in fuel collection and cooking time is users' perception. **CL 03 is closed.**				

CL ID	04	Section no.	D.2	Date: 11/08/2023
Description of CL				
Random sampling size approach followed by PP is not clear to VVB from the GS 6212_ICS user survey 2022 report. PP shall clarify the methodology for selecting the survey household. Furthermore, PP shall submit the complete database of the project.				
Project participant response				**Date: 13/09/2023**
The sampling approach adopted by the project developer is discussed in the section 2.2 of the survey report. Please see SD#1 for the same. The approach adopted on the selection of the household is specifically contained in section 2.2.3.4 (last paragraph) in line with the previous monitoring. The detail of sampling is presented in annex-1 of the report. Further detail to what was adopted is also further added to section D.4 of the MR. The project database is submitted as a supporting document as SD#2.				
Documentation provided by project participant				
SD#1_GS6212_ICS User Survey-2022 SD#2_GS6212_Database_CP-2				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the Survey report shared by PP and found that in section 2.2 of the report, the sampling approach is defined. PP has applied the random sampling approach and the random number generated and survey sample has been provided in annexure 1 of the report. Furthermore, VVB has assessed the MR and found that the section D.4 of the MR mentions the sample approach appropriately.				

CL 04 is closed.

CL ID	05	Section no.	E.5.1	Date: 11/08/2023
Description of CL				
The number of project devices in section E.5.1 is not in line with section B.1. PP to clarify.				
Project participant response				**Date: 13/09/2023**
This is the maximum number of ICS the project can accommodate and this has been used for ex-ante emission estimation in the PDD. This is the maximum number of ICS that can be included in the project while 14,529 is the actual number of ICS installed in the project. Hence, these numbers are different as it used for ex-ante calculation only. For detail please see section B.6.3 of registered PDD.				
Documentation provided by project participant				
N/A				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the PP response and through review of ER Sheet confirm that for the ER quantification, PP has considered 14,527 number of cookstoves only. Which is conservative. **CL 05 is closed.**				

Corrective action required (CARs)

Table 2 CARs from this verification

CAR ID	01	Section no.	Page 2	Date: 11/08/2023
Description of CAR				
The header of the monitoring report is not in line with monitoring report templet guide v1.1. PP shall complete MR without any alteration to the form/template.				
Project participant response				**Date: 13/09/2023**
PP would like to confirm that the template is not altered but followed the instructions provided in MR template. So, some tables are deleted which are not applicable for project activity in line with the instruction given in MR template. Please see MR template for the instruction.				
Documentation provided by project participant				
N/A				
VVB assessment				**Date: 25/09/2023**
The PP response is not in line with the query raised. **CAR 01 is open.**				
Project participant response				**Date: 05/10/2023**
PP acknowledges that there was alteration in the header of the MR used where the “Monitoring Report” stated in the header was missing. PP had applied valid template with the header; hence the identified alteration had been resolved in revised MR (version 02). PP admits that the response to the query was not as per the question asked and hereby updates its response aligning with the questions asked.				
Documentation provided by project participant				**Date: 05/10/2023**
VVB assessment				**Date: 15/10/2023**
VVB has assessed the MR v02 and found that PP has updated the header in line with monitoring report templet v1.1.				

#CAR 01 is Closed.

CAR ID	**02**	**Section no.**	Page 2	**Date: 11/08/2023**
Description of CAR				
VVB has assessed that the POA Information table is missing from KPI section. PP shall use the MR template without altering the sections/tables.				
Project participant response				**Date: 13/09/2023**
The subject verification is being undertaken for the Gold Standard Project Activity. The MR template only requires the POA information table to be retained in case of the PoA. Since the MR under consideration is for the project activity, the PoA information table was deleted as per the MR template guide.				
Documentation provided by project participant				
N/A				
VVB assessment				**Date: 25/09/2023**
PP has clarified the removal of POA information table. The same is in line with the MR template guidance**.** **CAR 02 is closed.**				

CAR ID	**03**	**Section no.**	Table 2	**Date: 11/08/2023**
Description of CAR				
Against SDG 8, PP shall submit the evidence/records to support number jobs created.				
Project participant response				**Date: 13/09/2023**
PP hereby confirm that the project has created the jobs and the staffs are working for the project activity. The sample payment slips for the staffs are provided with this response. Please see SD#3 for the same.				
Documentation provided by project participant				
SD#3_Payment Slips				
VVB assessment				**Date: 25/09/2023**
PP has submitted the salary instruction given to Bank as evidence of the employment generation. PP shall also provide the Bank endorsement on the submitted letter. Furthermore, VVB assessed that there are other VPAs of the PP in the region, how the PP insuring to avoid the double counting of employees across other VPAs. **CAR 03 is Open**				
Project participant response				**Date: 05/10/2023**
The PP has submitted a salary instruction with bank's stamp as acknowledgement of receipt as the revised SD#3 document which is submitted with this round of response. With regards to the employment, the PP would like to clarify that PP has implemented multiple projects and revenue from all the projects contribute to the employment of the staffs at EPC, Nepal. One staff therefore will be undertaking activities related to more than one project; very similar to the VVB appointing its staffs for audits of multiple projects at a time.				
Documentation provided by project participant				**Date: 05/10/2023**
SD#3_Payment Slips				
VVB assessment				**Date: 15/10/2023**
VVB has assessed the PP response and submitted approved salary instruction by SBI Nepal Bank as evidence of the employment generation. VVB found the response okay. **CAR 03 is closed.**				

CAR ID	04	Section no.	A.2	Date: 11/08/2023
Description of CAR				
As per requirement of latest templet guide, PP shall update the map showing the physical/geographical location of the project activity				
Project participant response				**Date: 13/09/2023**
The map showing the project boundary is now included in section A.2 of the updated MR in line with this MP. Please see figure 1 in updated MR in section A.2.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the PP response and MR and found that PP has updated map in line with quarries raised. **CAR 04 is closed.**				

CAR ID	05	Section no.	A.4	Date: 11/08/2023
Description of CAR				
In the A.4 section, the date format is not in line with GS monitoring report templet v1.1. PP to update the format of date in DD/MM/YYYY. Furthermore, PP shall update the section informing the crediting period number.				
Project participant response				**Date: 13/09/2023**
There was typo error in date format. This has been corrected in the updated MR. Similarly, the applicable CP number has also been included in the section A.4.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the PP response and MR and found that PP has updated date format in line with templet. **CAR 05 is closed.**				

CAR ID	06	Section no.	B.1	Date: 11/08/2023
Description of CAR				
PP to share OEM specification of NEP Star-2 metallic stoves.				
Project participant response				**Date: 13/09/2023**
The technical specification of the NEP star-2 metallic stoves is provided with this response. Please see SD#4 for the same.				
Documentation provided by project participant				
SD#4_Stove Specification_NEP Star-2				
VVB assessment				**Date: 25/09/2023**
PP has shared the OEM technical specification of NEP Star-2. VVB found okay. **CAR 06 is Closed.**				

CAR ID	07	Section no.	B.1	Date: 11/08/2023
Description of CAR				
PP to submit the Renewable Energy Test Station (RETS) certificate.				
Project participant response				**Date: 13/09/2023**
The test certificates provided by Renewable Energy Test Station (RETS) for the project stoves is provided with this response. Please see SD#5 for the reference.				
Documentation provided by project participant				
SD#5_Test certificate_RETS				
VVB assessment				**Date: 25/09/2023**
PP has shared the Renewable Energy Test Station (RETS) report for the project stoves. VVB found okay. **CAR 07 is closed.**				

CAR ID	08	Section no.	D.1	Date:11/08/2023
Description of CAR				
VVB assessed that the fNRB is fixed ex-ante, however, PP shall provide the fNRB calculation for the VVB's review.				
Project participant response				**Date: 13/09/2023**
As indicated in the MR and registered PD, this parameter was calculated by the DNA that was applicable during crediting period renewal. Same was validated by VVB during the crediting period renewal. This value is calculated for Nepal and is applied across several projects in Nepal. The f_{NRB} confirmation and the calculation of the same can be accessed from: https://cdm.unfccc.int/Projects/DB/RWTUV1321009660.45/view The confirmation of DNA is submitted with this response. Please see SD#6 for the reference.				
Documentation provided by project participant				
SD#6_Fnrb Confirmation				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the fNRB report shared by PP. VVB confirms that PP has computed parameter calculated by the DNA (Designated National Authority) of Nepal that was applicable during crediting period renewal**.** **CAR 08 is closed.**				

CAR ID	09	Section no.	D.2	Date: 11/08/2023
Description of CAR				
The nomenclature of the data and parameters monitored shall be aligned with the certified PD				
Project participant response				**Date: 13/09/2023**
The nomenclature of the data and parameter monitored is corrected to align as per the registered PDD. Please see updated MR for the reference.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				

VVB assessment	Date: 25/09/2023
PP has aligned the nomenclature of the data and parameter monitored in line with PDD v05. **CAR 09 is closed**	

CAR ID	10	Section no.	D.2	Date: 11/08/2023
Description of CAR				
SDG for Air quality is the user's perception of reduction on smoke reduction and Incidence of disease. Here, sentence show actual reduction in smoke and incidence. PP shall reframe the sentence to show perception.				
Project participant response				**Date: 13/09/2023**
PP has revised the sentences to inform that the stated reductions are the perceived reduction of the smoke, respiratory diseases, eye infection and cough by % of uses the users out of the surveyed users. Please see updated MR for the same.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the MR and found that PP has rephrased the description appropriately. **CAR 10 is closed.**				

CAR ID	11	Section no.	D.2	Date: 11/08/2023
Description of CAR				
SDG for Livelihood of poor is the user's perception of reduction of fuel collection time and cooking time. Here, sentence show actual reduction in in fuel collection time and cooking time. PP shall reframe the sentence to show perception.				
Project participant response				**Date: 13/09/2022**
PP has revised the sentences to inform that the stated reductions are the perceived reduction of time to collect firewood or to cook by the % of users out of the surveyed users. Please see updated MR for the same.				
Documentation provided by project participant				
GS6212_Monitoring Report_CP-2_MP-1_Clean_V02 GS6212_Monitoring Report_CP-2_MP-1_Trackchange_V02				
VVB assessment				**Date: 25/09/2023**
VVB has assessed the MR and found that PP has rephrased the description appropriately. **CAR 11 is closed.**				

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Document information

Version	*Date*	*Description*
03.0	31 May 2019	Revision to: • Ensure consistency with version 02.0 of the "CDM validation and verification standard for project activities" (CDM-EB93-A05-STAN); • Make structural and editorial improvements.
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the "CDM validation and verification standard for project activities" (version 01.0).
01.0	23 March 2015	Initial publication.

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