

Verification and certification report form for GS project activities

(Version 03.0)

BASIC	INFORMATION					
Title and GS reference number of the project activity	Title: Sustainable Market Development of Improved cooking in rural Nepal by Practical Action					
Scale of the project activity	 Large-scale Small-scale Micro-scale 					
Version number of the verification and certification report	4					
Completion date of the verification and certification report	15/09/2023					
Monitoring period number and duration of this monitoring period	^{3rd monitoring period. Duration: 22/06/2021 to 21/06/2022 (including both days)}					
Version number of the monitoring report to which this report applies	1.4 dated 01/09/2023					
Crediting period of the project activity corresponding to this monitoring period	02/09/2019 to 01/09/2024					
Project participants	Value Network Ventures Advisory Services Pte. Ltd.					
Host Party	India					
Applied methodologies and standardized baselines	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass -Version 11.1					
Mandatory sectoral scopes	3					
Conditional sectoral scopes, if applicable	N/A					
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	35,321 tCO ₂ e					
Certified amount of GHG emission reductions or GHG removals for this monitoring period	10,545 tCO ₂ e					
Name of the VVB	Carbon Check (India) Private Limited					
Name, position and signature of the approver of the verification and certification report	Vixash L. Sil					
	Vikash Kumar Singh, Compliance Officer					

SECTION A. Executive summary

The purpose of the project is to displace the less efficient traditional cooking stoves with stoves of better efficiency (Improved Cooking Stoves). Replacement of the traditional cooking stoves with ICS will reduce the exposure of the family members, specifically women, to the indoor air pollution and therefore result in reducing risk of health related issues. Each stoves disseminated under the project will potentially reduce the firewood consumption. The project involves promotion of metallic improved cooking stoves (ICS) by Practical Action, Nepal with an aim to strengthen private-sector led clean cook stove with innovative financing through preferential loans via cooperatives throughout Nepal. Practical Action is an innovative international development organisation putting ingenious ideas to work so people in poverty can change their world.

Verification methodology and process

The Verification team confirms the contractual relationship signed on the 06/02/2023 between the Carbon Check (India) Private Ltd. (hereafter the "VVB") and the project participant - Value Network Ventures Advisory Services Pte. Ltd. The team assigned to the verification meets the Carbon Check (India) Private Ltd's internal procedures including the UNFCCC requirements for the team composition and competence. CCIPL has conducted a thorough contract review as per UNFCCC and Carbon Check's procedures and requirements.

The verification has been performed as per the requirements described in the Gold Standard for the Global Goals Principles & Requirements (version 1.2) /05/; and CDM VVS for project activities (version 03.0) /09/ and constitutes the review and completion of the following steps:

- Review of the registered PDD (Version 1.3; Dated: 03/11/2021) /02/, including the monitoring plan and the corresponding validation report /07/, the Sustainability Matrix and monitoring data;
- Desk review of the MR(version 1.4 dated 01/09/2023), emission reduction spreadsheet
- Review of the applied monitoring methodology "AMS-II.G 'Energy efficiency measures in thermal applications of non-renewable biomass" (version 11.1) /04/;
- Review of any CMP and EB decisions, clarifications and guidance and the Gold Standard Secretariat;
- On-site assessment (15/03/2023 16/03/2023)
- Resolution of CARs and CLs raised during verification
- Issuance of Verification Report

The verification of the emission reductions reported for the project activity 'Sustainable Market Development of Improved cooking in rural Nepal by Practical Action', GS Registration Reference No. 10788 for the monitoring period 22/06/2021 to 21/06/2022, with regard to the relevant GS requirements and principles for project activities. The project was validated by Carbon Check (validation report CCIPL 862, version 2.1 of 03/11/2021) and the project got registered under GS on 01/09/2021.

In Carbon Check's opinion, the project activity was correctly implemented according to selected monitoring methodology monitoring plan and the registered PDD /02/. The monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through document review, on-site interviews, the verification team confirms that the project has resulted 10,545 tCO₂e emission reductions during this 3rd monitoring period. The GHG emission reductions and non-GHG parameters were correctly calculated/monitored based on the approved monitoring methodology "AMS-II.G, "Energy efficiency measures in thermal applications of non-renewable biomass", (version 11.1) /04/ and the monitoring plan contained in the registered PDD (version 1.3; Dated: 03/11/2021) /02/.

SECTION B. Verification team, technical reviewer and approver

No.	Role		Last name	First name	Affiliation	I	nvolve	ment i	n
		Lype of resource			(e.g. name of central or other office of VVB or outsourced entity)	Desk/document review	On-site inspection	nterviews	Verification findings
1.	Team Leader/ Technical Expert/ Verifier	İR	Choudhary	Aparna	CCIPL	1	V	$\overline{}$	Ń
2.	Assessor	IR	ΚV	Kiran	CCIPL	\checkmark	\checkmark	\checkmark	\checkmark
3.	Local Expert	ER	Karmacharya	Prasan	CCIPL	×			×

B.1. Verification team member

Carbon Check as verifying entity of this verification also performed the validation of the project. However, the audit team was different from the one in validation. The audit team of validation was as below:

No.	Role		Last name	First name	Affiliation		nvolve	ment i	n
		Type of resource			(e.g. name of central or other office of VVB or outsourced entity)	Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader/ Technical Expert/ Verifier	ÊR	Buragohain	Champok	CCIPL	V	×	V	V
2.	Local Expert	ER	Ghimire	Narendra	CCIPL	\checkmark	×	\checkmark	\checkmark

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	С	Indumathi	CCIPL
2.	Approver	IR	Singh	Vikash Kumar	CCIPL

SECTION C. Application of materiality

The threshold of materiality was evaluated based on "Guideline: Application of materiality in verifications" (version 02.0) /13/. It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 5% of 10,545 tCO₂e which is equal to 527 tCO₂e.

In planning the verification, verification team took cognizance of $11 \text{ and } 12 \text{ of the "Guideline: Application of materiality in verifications" (version 02.0) /13/ and a materiality threshold of 527 tCO₂e is determined for the current verification of the project activity.$

No.	Risk that could lead to	As	sessment of the risk	Response to the risk in the
	material errors, omissions or misstatements	Risk level	Justification	verification plan and/or sampling plan
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Low	Being third verification, there is less likelihood to have human error in the quantification of emissions. All data parameters are monitored through survey. Hence, the risk level is low.	During on-site audit, the audit team has interviewed the staffs of the monitoring team and checked all records to confirm whether the monitoring plan has been well implemented. The recording of monitoring parameters used for
2.	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	The project proponent has already established a well- organized monitoring team, monitoring plan, including data collection procedure and QA/QC procedure consistent with registered monitoring plan. The main data parameter to be monitored is operation status of ICS which is done through sampling survey. In addition, PP manages, entire project ICS database to locate and monitor as in when required. Therefore, less likelihood that poor flow of required data can be witnessed. Hence, the risk level is low.	determining the project's baseline emissions are used from survey report, statistically approved sampling plan and project installation database. The verification team has reviewed the whole data set of records, and crosschecked against relevant options. The verification team has interviewed the staffs of the monitoring team and checked the relevant records to confirm whether the data collection procedure and QA/QC procedure have been well implemented.
3.	Manual adjustment of otherwise automatically recorded activity levels	N/A	There is no data parameter which needs to adjust manually. Therefore, no risk identified.	

C.1. Consideration of materiality in planning the verification

C.2. Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications /13/, 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 finding was raised. 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

The verification was performed primarily based on the review of the Monitoring report /01/, emission reduction worksheet /03/ 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

	Duration of on-site ins	pection: 15/03/2023	3 – 16/03/2023	
No.	Activity performed on-site	Site location	Date	Team member
1.	Verify actual implementation of the	Annapurna	15/03/2023 -	Aparna Choudhary,
	project, management structure, project	Rural	16/03/2023	Kiran K V, and
	participant	Municipality		Prasan Karmacharya
2.	Physically checking the project			
	technology, end user details,	Modi Rural		
	identification of project PV systems,	Municipality		
	whether the pre-project fuel is in use,			
	whether the project PV systems are in	Baglung		
-	operational	Municipality		
3.	Management and operational system:			
	Documentation, allocation of			
	responsibilities, qualification and training,			
	data recording & archiving, internal audit			
	and management review and emergency			
_	procedures	4		
5.	Interviews with end user and other			
	stakenolaers			

D.3. Interviews

No.		Interviewee		Date	Subject	Team
	Last name	First name	Affiliation			member
1.	Bahadur Karki	Chandra			Project Design, ownership details,	
2.	Upadhyay	Basudev		15/03/2023	carbon credit sharing arrangements,	
			Practical	_	monitoring and reporting	
			Action	16/03/2023	arrangements, QA/QC	
					assessment, project	
					technology.	Aparna
3.	Dey	Deboshmita			PDD development, GS	Choudhary,
4.	J	Banupriya			requirements, Emission	Kiran K V, &
5.	Mehra	Ajay	VNV	15/03/2023	reduction calculations,	Prasan
			Advisory	-	methodology	Karmacharya.
				16/03/2023	applicability, start date	
					justification etc.	
6.	Gautam	Gyanendrap	Dhaulagiri		Survey method,	
		al	Community		procedure, QA/QC,	
7.	Dahal	Naba Raj	Resource	15/03/2023	survey results.	
			Developmen	-	Operational status of	
			t Center	16/03/2023	ICS, baseline scenario,	
			(DCRDC)		carbon rights transfer	
					etc.	

Outcome of interview with end users:

CCIPL team has interviewed various project cookstove owners during on-site audit. 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:

S.No	Name of the customer	Location	Installation date	ICS type	ICS ID	Feedback
				HPN JE-01		ICS
				ND		operational.
		Annapurna Rural				Positive
		Municipality-6,				feedback
1	Devi Gharti	Dawa	16/07/2019		PA/GS/ICS/00216	on SD

						parameters.
2	Manika BK	Annapurna Rural Municipality-6, Haijupa	16/07/2019	HPN JE-01 ND	PA/GSICS/00217	ICS operational. Positive feedback on SD parameters
			10/07/2013	HPN JE-01	17/00/00/00217	ICS
3	Resham Kumari Gautam	Modi Rural municipality-7, thati	22/06/2019	ND	PA/GS/ICS/00036	operational. Positive feedback on SD parameters.
				HPN JE-01		ICS
4	Aaita Kumari Darii	Modi Rural Municipality-7, thati	27/06/2019	ND	PA/GS/ICS/00035	operational. Positive feedback on SD parameters.
				HPN-01FD		ICS
5	Ganga Datta	Baglung Municipality-12,	15/12/2021			operational. Positive feedback on SD
5	Chapai	Amaiachaur	15/12/2021	HPN-01FD	PA/GS/ICS/05088	ICS
	Usha Devi	Baglung Municipality-12,				operational. Positive feedback on SD
6	Sharma Paudel	Amalachaur	15/12/2021	HPN-01FD	PA/GS/ICS/05685	parameters.
7	Kopila Mani Sharma	Baglung Municipality-12, Amalachaur	15/12/2021		PA/GS/ICS/05649	operational. Positive feedback on SD parameters
,	Onama		10/12/2021	Greenway	17700/100/00040	ICS
	Annata Raj	Annapurna Rural Municipality-1,	22/27/22/2	Jumbo	EA/00/100/00000	operational. Positive feedback on SD
8	Adhikari	Adhikaridanda	22/07/2019	Greenway	PA/GS/ICS/00229	parameters.
0	Rewati	Annapurna Rural Municipality-1,	22/07/2010	Jumbo	DA/CS/ICS/00224	operational. Positive feedback on SD
9	Aunikan	Aunikanuanda	22/07/2019	Greenway	PA/G3/IC3/UUZ21	ICS
10	Sangita Nonali	Annapurna Rural Municipality-1,	22/07/2010	Jumbo	PA/GS/ICS/00230	operational. Positive feedback on SD
			22/01/2019	Greenway	1 7,00,100,00230	ICS
		Annapurna Rural Municipality-1,		Jumbo		operational. Positive feedback on SD
11	Mina Kunwar	Kunwarthar	22/07/2019		PA/GS/ICS/00227	parameters.

D.4. Sampling approach

PP's sampling approach:

PP has proposed simple random sampling plan using 90/10 as confidence / precision. This is in line with the applied methodology /**04**/. The sample size for each parameter is determined following guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB86, Annex 4) /**10**/.

CCIPL's verification sampling approach:

CCIPL has considered para 39 (a) of "Standard for Sampling and surveys for CDM project activities and programmes of activities, Version 09.0" for determining the sampling size to be visited by VVB /11/. In case of the current verification, being the estimated emission reduction is 35,321 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 programme of activities' version 09.0 /11/: Considering Acceptable Quality Level (AQL): 0.5% Unacceptable Quality Level (UQL): 20% and producer risk and consumer risk of 10% each, a sample size of 11 was required as per Table 2 in the referred Standard /11/. Acceptance number (c) thus determined for the sample size is 0. CCIPL interviewed 11 samples to verify the project activity. The verification team selected random samples from PP's sample list. VVB has assessed on-site visit entire 11 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. The inconsistencies observed in the selected samples during the on-site inspection has been reported in the appendix-4 of this document. The raised findings has been closed successfully.

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	01	01, 02, 03, 06, 07	
Remaining forward action requests from validation and/or previous verifications			
Compliance of the project implementation and operation with the registered PDD	04	04, 08	
Post-registration changes			
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	05	11	
Compliance of monitoring activities with the registered monitoring plan	02, 03, 07	12	01
Compliance with the calibration frequency requirements for measuring instruments			
Assessment of data and calculation of emission reductions or net removals	06, 08,09	05, 09	
Assessment of reported sustainable development co- benefits			
Global stakeholder consultation			
Others (Supporting documents)		10	
Other (Sustainability Monitoring)			
Total	09	12	01

SECTION E. Verification findings

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

Means of verification	Desk review/ on-site interview
Findings	CL01, CAR01, CAR02, CAR03, CAR06, and CAR07 have been raised and closed
	successfully

Conclusion	CCIPL confirms that the monitoring report version 1 of 27/01/2023 and later
	versions are prepared using GS monitoring report template version 1.1 of
	14/10/2020 which is the latest available template and completed with relevant
	information as per the template requirement.

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

FAR ID	01	Section No.		Date: 28/06/2022	
Description	of FAR				
The UNFCCC sampling and survey guidelines, version 04, recommends data processing and report generation in clause 9.4. PP is requested to prepare a Survey Report compiling information and aligning with sampling and survey guidelines from next monitoring for improving QA/QC. The verifying entity shall check the same in next verification.					
Project parti	Project participant response Date: 17/05/2023				
As per the raised FAR, PP has prepared a survey report for the current monitoring period.					
Documentati	on provided by proje	ct participant			
Nepal GS ICS MP03 Survey report					
VVB assessment Date: 28/06/2023					
PP has provided the survey report of the current monitoring period to the VVB and the same has been reviewed and confirm that the report contains information on the sampling and survey guideline and the provided information is in line with the applicable PDD, and UNFCC sampling and survey guideline.					

Thus, the FAR is closed.

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

Means of verification	Desk review/ on-site interview
Findings	CL04, CAR04, and CAR08 have been raised and closed successfully.
Conclusion	As verified during onsite inspection the audit team confirms the project implementation and operation complies with the project design document /02/. The project is an initiative of Practical Action, Nepal. Practical Action is an innovative international development organization putting ingenious ideas to work so people in poverty can change their world. The project is promoting three types of metallic ICS with model name ' <i>HPN JE-01 ND</i> ', ' <i>HPN-01FD</i> ' and ' <i>Greenway Jumbo</i> ' with thermal efficiency of 30.29%, 41.24% and 29.79% /15/. The project ICSs are metallic stoves with is a single pot hole rocket stoves with natural draft (' <i>HPN JE-01 ND</i> ' & ' <i>Greenway Jumbo</i> ') and forced draft (<i>HPN-01FD</i> . The project technology was witnessed by the verification team during onsite inspection which is found to be consistent with sales receipt, test certificates as detailed in the project design document. Each ICS has a technical life of at least 7 years as confirmed from stove manufacturer /15/16/. The project has implemented a total 7,114 ICS between 22/06/2019 to 21/06/2022 with 3,177 ICS of <i>HPN JE-01 ND</i> type, 3876 of <i>HPN-01FD</i> and 61 of <i>Greenway Jumbo</i> '.
	The baseline cooking practice in Nepal is the use of the "three-stone" cooking stove, popularly known as traditional stoves using firewood. The project thus reduces greenhouse gas (GHG) emissions by replacing traditional wood-fuel three stone stoves with wood-fuel ICS. The replacement of traditional stoves by ICS improves heat transfer to the cooking utensil thereby reducing the amount of fuel (non-renewable biomass) required for cooking. A reduction in consumption of non-renewable biomass contributes towards reduction in GHG emissions into the atmosphere. Thus, ICS reduce GHG emissions through their improved thermal efficiency as compared to traditional/ baseline stoves. This project is implemented Practical Action wherein innovative financing for clean cook-stoves through preferential loans via cooperatives are adopted. Users transfer the ownership of carbon credit via end user agreement /17/. VNV is working as partner to Practical Action for sale of carbon credit generated from the project activity /17/. The operational and management structured is verified from document review and interview with VNV and Practical Action representatives. CCIPL has verified 11 project ICS as explained in section D.4 above to ascertain accuracy of information.

CCIPL confirms the project cook-stoves are operating in all samples visited, each cook-stove has unique identification number which has been marked on the cookstove and also available in sales receipt and are correct as per project database. Along with the serial number, the stove model, end user name, address, installation date etc. had also been noted which were found to be consistent on ground. It is noted that no changes have been observed or identified which may impact the additionality, no addition of component nor extension of technology, no addition nor removal of project sites, no change of values of the actual operational parameter relevant to determination of emission reductions which are within the control of the PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology AMS-II.G version 11.1 /04/. The operational status of all project ICS, impact on identified SDGs from 22/06/2020 to 21/06/2021 has been taken into consideration. It is Carbon Check's opinion that the project implementation and operation complies with the project design document.

E.4. Post-registration changes

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

>> Not Applicable

E.4.2. Corrections

>> Not Applicable

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

>> Not Applicable

E.4.4. Inclusion of a monitoring plan

>>

Not Applicable

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

>>

Not Applicable

E.4.6. Changes to the project design

>> Not Applicable

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

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

Means of verification	Desk review/ on-site interview
Findings	CL05 and CAR11 have been raised and closed successfully.
Conclusion	During this monitoring period, the validated and registered monitoring plan was found to be in accordance with the applied methodology /02/, /04/.
	All monitoring parameters, monitoring procedures follow the methodology requirements and registered monitoring plan.

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

Findingo	Desk review/ on-site interview				
Conclusion	The following ex-ante parameter reductions:	rs are considered	in the calculation of the emission		
	Parameter	Value	Description/Assessment		
	Quantity of woody biomass used per ICS in the absence of the project activity (Воld,нн) in Tonnes /year	3.80 tonne/HH/year	The data has been derived from baseline surveys and fixed exante in the registered PDD /02/ as required by the methodology /04/.		
	Efficiency of the system being replaced (Traditional Cooking Stoves) ($\eta_{old,i,j}$)	10%	Default value is taken as per applied methodology Table 17 / 04 /. This is consistent with registered PDD.		
	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%	Calculated as per procedures outlined in tool of Annex 07 of EB 102 and approved from Ministry of Environment and Forest, Nepal.		
	Emission factor for the substitution of non- renewable woody biomass by similar consumers (EF _{projected fossilfuel}) in tCO ₂ /TJ	64.4	Emission factor for the substitution of non-renewable woody biomass by similar consumers. Default value as per the applied methodology / 04 /.		
	Leakage adjustment factor (Ly) (fraction)	0.95	Net to gross Adjustment Factor. Default value as per the applied		

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

E.6.2. Data and parameters monitored

Means of verification	Desk review/ on-s	site interview		
Findings	CL02, CL03, and	CL07 has been r	aised and closed succes	sfully.
Conclusion				
	Parameter	Value	Description	Assessment
	Number of	7,114	It is noted from project	database it is verified a
	project		total of 7,114 ICS w	vere installed between
	devices of		22/06/2019 to 21/06/20	22 as below /20/:
	type i and age		Model	Total ICS installed

a that are		HPN JE-01	ND	3,177	
operating in		HPN-01FD	(old)	76	
year y N _{y,i,a}		HPN-01FD	(new)	3800	
(Number)		Greenway	Jumbo	61	
		From the to monitored t operation based survey of 9 operating at of the total monitoring p Hence, 7,11 monitoring p above, CCIF PP's sample operation. H the database observations	otal commi the number ased on sa 99 sample the time o l commission period is correct period. As PL verified e record an- ence, the se to be	issioned IC er of proje- impling surv- es, all san f survey. He ioned ICS onsidered in ctly conside detailed in 11 random d found all l information consistent	S, PP has ect ICS in vey. As per pples were ence, 100% during the operation. red for this section D.4 samples of ICS were in available in with onsite
Efficiency of	HPN JE-01	PP has chos	en linear d	ecrease in e	efficiency as
the device of	ND' model=	per paragrap	oh 37(a) o	f the metho	dology and
each type I	27.35%%,	accordingly	monitoring	of the effici	iency is not
and batch j		linear decre	eing third	year of ope	eration, the
as part of the	model (old)	correctly foll	owing met	hodology gu	lideline has
project activity	=35.18%	been applie	ed and ac	cepted by	verification
$(oldsymbol{\eta}_{ ext{new}, ext{l}, ext{j}})$	HPN-01FD'	team. Yearly	linear dec	rease is pro	vided in the
	41.24%	been calcula	ted as per	the para 37	7 of applied
		methodology	AMS II-G,	V.11.1	-11
	Greenway	Stove	Efficiency	Efficiency	Efficiency
	=27.01%	model	year	year	year
		HPN JE-	30.29%	28.82%	27.35%
		01 ND'	A1 2/10/	38 21%	35 18%
		01FD'	41.2470	30.2170	55.10%
		Greenway	29.79%	28.40%	27.01%
Not color!!!	0.0150	Jumbo		f the	
value of the	0.0100	cooking fuel	c value c . Default v	n the WOO alue as per	u used as the applied
non-		methodology	/04/.		
renewable					
woody					
is substituted					
(NCV _{biomass}) in					
TJ/Tonne		Ao 607		0.0000 0.000	
Adjustment to	при JE-01 ND' model=	As per samp	ble survey, nued use o	some samp of traditional	cookstove
any continued	0.9393	Accordingly,	μ_y is consid	dered and ca	alculated for
use of pre-		the monitorin	ng period.	During the	on-site visit
project	HPN-01FD'	assessment,	VVB obse	rved discrep	bancy in the
the year v (u _v)	=0.9848	CL02. which	nas been	n successi	fully closed
	2.00.0	upon adjust	ing to a	conservating	g value as
	Greenway	follows.		0.0000	1
	Jumpo model		ND	0.8939	
	-0.0030	Greenway.	Jumbo	0.8939.	
Operating	7 years	The life of pr	roject ICS t	ypes are de	clared from
lifetime of the	-	its manufact	urer and h	nence accer	oted by the

project device		verification team /15/16/.
Actual date of	The date of	As per sales record and project database the
commissioning	commissioning	project devices were commissioned/sold
of the project	of the project	between 22/06/2019 to 21/06/2022. This is
device	devices are	consisted with the details considered for
	mentioned in	claiming emission reductions.
	the ER sheet	
	for each ICS	
	(Tab: ICS wise	
	ER	
	calculations	
	(Column F).)	
Number of ICS	1	As per project implementation database, 1 ICS
distributed per		is distributed in each household. VVB verified
nousenoid		this during on-site interviews. This is also
		Conservative as per the applied methodology.
SDG3. All	AS provided in	PP in the MP is deemed to be acceptable as
quality	MR	the value is consistent with the ER sheet tab
	IVITX	"SDG3 and SDG7" The same has been
		verified by VVB during the on-site assessment
SDG 7.	7 114	It has been confirmed that the PP has
Access to	numbers	distributed 7.114 numbers of cookstoves
affordable and		during the period ICS between 22/06/2019 to
clean energy		21/06/2022.
services		
CCIPL is able t	to confirm that	the monitoring has been implemented in full
compliance with t	the registered mo	onitoring plan and all the parameters listed in the
registered monito	ring plan have be	en completely monitored.

E.6.3. Implementation of sampling plan

Means of verification	Desk review/ on-site interview
Findings	CAR12 has been raised and closed successfully. FAR01 has been raised
Conclusion	 CAR12 has been raised and closed successfully. FAR01 has been raised According to the standard for sampling and survey /11/ and related guidelines /10/ the sampling plan was determined at the time of project registration and applied during this monitoring period as well. Sampling method: Simple random sampling method is adopted for each type of project ICS. The sample size is determined by the requirement to achieve 90/10 in line with the methodology for annual survey. Sampling approaches may follow the Guideline "Sampling and surveys for CDM project activities and programme of activities" for calculation of sample size. Data to be collected: Includes the monitored parameters <i>Ny</i>,<i>i</i>,a (Number of project devices of type i and operating in year y), μ_y (Adjustment to account for any continued use of pre-project devices during the year y), and SDG 3 (Users' perception on smoke reduction and Incidence of disease) Implementation plan: Annual During the actual monitoring period the sampling plan has been implemented as below: Sampling method: The sample size included all households where each type of ICS are commissioned. One ICS is distributed in one household. For each type of ICS, random numbers were assigned for each ICS using excel function and the sample ICS are extracted accordingly. The total sample size has been derived using equation from 'Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0. /10/. The expected
	 Implementation plan: Annual During the actual monitoring period the sampling plan has been implemented below: Sampling method: The sample size included all households where each type ICS are commissioned. One ICS is distributed in one household. For each type of ICS, random numbers were assigned for each ICS using exfunction and the sample ICS are extracted accordingly. The total sample size I been derived using equation from 'Guidelines for Sampling and Surveys for CI Project activities and Programme of Activities Ver. 4.0. /10/. The expect proportion is considered 90% appropriately as previous survey result show 100% operational status.

HPN JE-01 ND 3177 31 33 HPN-01FD 3876 31 33	Э	Actual sample	Required sample	Population	Type of ICS
HPN-01FD 3876 31 33		33	31	3177	HPN JE-01 ND
		33	31	3876	HPN-01FD
Greenway Jumbo 61 31 33		33	31	61	Greenway Jumbo
7,114 93 99		99	93	7,114	

Data collected: Questionnaire based face to face survey was used by Practical action appointed team /23/ and survey results are provided in excel sheet. The operational proportion of project ICS found to be 100% and factor for continued use of pre-project device found to be 0.9393 for HPN JE-01 ND type users, 0.9848 in case of HPN-01FD users and 0.9696 for Greenway Jumbo users. Since the relative margin of error obtained is less than 10% for the monitored parameter, relative precision of the data is statistically acceptable and deemed representative of the population. The number of household using pre project devices obtained during the VVB survey is found to be less than the value obtained during the monitoring survey, therefore PP has revised the μ_y value to be more conservative. The revised values are 0.8939 for HPN JE-01 ND type users, 0.9090 in case of HPN-01FD users and 0.8939 for Greenway Jumbo users. VVB has also observed the use of non-project cooking device in 11 households surveyed, which the household use to prepare meals along with the project ICS. The use of non-project cooking devise is found to be less frequent (5.23 meals/week/household) during the VVB survey. Therefore, the estimated emission reduction has been adjusted to account for the usage of the non-project cooking device in the households, thus complying with para 36 and 38 of CDM standard for Sampling and surveys for CDM project activities and programmes of activities.

CCIPL confirms that the sampling size and the method of onsite verification was in line with the requirements of the sampling standard.

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

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

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	Desk review/ on-site interview
Findings	CL06, CL08, CL09, CAR05, and CAR09 have been raised and closed successfully.
Conclusion	The Baseline emissions have been calculated using the following formulae:
	$ER_y = B_y$, savings X f _{NRB,y} X NCV _{biomass} X EF _{projected_fossilfuel} X N _{y,I} X μ_y
	Where:
	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:
	$B_{y,savings} = B_{old} * (1-\eta_{old}/\eta_{new})$. B_{old} is fixed ex-ante to be 3.8 tonne/year/HH as per PDD / 02 /. η_{old} is also fixed ex- ante to be 10% default as per the methodology / 02 /. η_{new} for HPN JE-01 ND type ICS is 27.35%, for HPN-01FD type 35.18% for old stoves and 41.24% for new stoves and for Greenway Jumbo type is 27.01% which is linearly decreased following guidance as per paragraph 37(a) of the applied methodology AMS-II.G, version 11.1.

fnre "y	=	Fraction of woody non-renewable bio calculated as per p f _{NRB} / 02 /.	biomass that can be established as mass (f_{NRB}) fixed ex-ante to be 86% procedure outlined in tool to calculate
NCV _{biomass}	=	Net calorific value that is substituted TJ/tonne, based or 'air-dried')	of the non-renewable woody biomass (IPCC default for wood fuel, 0.0156 the gross weight of the wood that is
EF projected _fossilfuel	=	Emission factor for for substitution of similar consumers.	the fossil fuels projected to be used non-renewable woody biomass by Use a value of 64.4 t CO ₂ /TJ
$N_{y,i,j}$	=	Number of project of during year <i>y</i> . Duri explained in section	devices of type <i>i</i> and batch <i>j</i> operating ng this monitoring period it is 7,114 as a E.6.2 above.
μ_y	=	Adjustment to acc project devices du result to be 0.8939 01FD users and 0.8	ount for any continued use of pre- iring the year y. As per survey this for HPN JE-01 ND, 0.9090 for HPN- 8939 for Greenway Jumbo users.
As per paragraph by a net to gross is realized during t	29 adj the	of the applied meth ustment factor of 0.9 monitoring period is	nodology and PDD, B _{y,savings,i,j} is multiplied 5 to account for leakage. Therefore, ERy 14,043 tCO ₂
Therefore, the tota	al b	aseline emission ach	nieved during this monitoring period is
Stove model			Baseline emission tCO ₂
HPN JE-01 ND			5,619
HPN-01FD (76 s	tov	es)	154
HPN-01FD (3800	0 IC	CS)	8,162
Greenway Jumb	0		107
Total			14,043
However, during sampled has been ICS at the rate o prepared per hou usage of only 15. been multiplied w reduction value of	the n us f 5 usel 77 /ith 10	e VVB survey, it h sing LPG and other .23 meals/household hold per week, there meals/household/we an adjustment facto ,545 tCO ₂ e.	has been observed that the household devices for cooking other that the project d/week. It is assumed that 21 meals are efore, the project ICS have an effective bek, therefore the ER value (14,043) has or 0f 0.7509 to obtain the total emission
CCIPL confirms the accordance with the applied metho	nat the dol	the calculation of bas formulae and metho ogy.	seline emissions have been carried out in ods described in the registered PDD and

E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	Desk review/ on-site interview
Findings	N/A
Conclusion	The calculation algorithm in the methodology directly calculates emission reductions hence this is not applicable /04/.

E.8.3. Calculation of leakage GHG emissions

Means of verification	Desk review/ on-site interview
Findings	N/A
Conclusion	The Net to Gross Leakage Adjustment Factor has been included in the emission reduction calculations applying adjustment factor 0.95 as per paragraph 39 of the applied methodology.

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

Means of verification	Desk review/ on-site intervie	ew	
Findings	N/A		
Conclusion	The emission reductions requirements of the applied the monitoring report. The period 22/06/2021 to 21/06/	have been calculated methodology, registered Pl e emission reductions achie 2022 is 10,545 tCO ₂ e.	in accordance with the DD and correctly reported in eved during the monitoring
	Baseline emission	Project emission	Net Reduction
	10,545 tCO ₂	0 tCO ₂	10,545 tCO ₂
	The data presented in the r /03/ were assessed by re monitored data, observation assessment of the reliability presented and verified by above.	nonitoring report / 01 / and er viewing in detail project d n of established monitoring ty of monitoring equipment CCIPL for the reported en	mission reduction worksheet ocumentation, collection of and reporting practices and . Sufficient evidences were nission reductions as listed

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

Means of verification	Desk review/ on-site interview
Findings	N/A
Conclusion	The emission reductions from the project for the monitoring period as reported in the monitoring report revision 1.4 of $01/09/2023$ / 01 / is equivalent to $10,545$ tCO _{2e} . The actual emission reductions are less than estimated emission reductions of 35,321 tCO ₂ e during the monitoring period. The reduction of emission reductions are due to less number of ICS commissioned than estimated in the PDD.
	The emission reduction calculations provided in the spreadsheet /03/ have been verified to be correct and in line with the final PDD /02/.

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

Means of verification	Desk review/ on-site interview
Findings	N/A
Conclusion	The actual emission reductions are less than estimated emission reductions during
	the monitoring period which is due to less number of ICS commissioned than
	estimated in the project design.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	Desk review/ on-site interview	
Findings	N/A	
Conclusion		
	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	NA	10,545 tCO₂e
	Year-wise break-up of emission reduction	s:
	Year	Emission Reductions (tCO _{2e})
	22/06/2021 to 31/12/2021	5,576
	01/01/2022 to 21/06/2022	4,969
	The emission reduction calculations prov	vided in the spreadsheet / 03 / have been

verified to be correct and in line with the final PDD /02/, also the values are consistently reported in the MR for this monitoring period.

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

Means of verification	Desk review/ on-site interview			
Findings	No findings has been raised			
Conclusion				
	Data variable	Source of Data	Reported value for the project period	
	Users' perception on smoke reduction and Incidence of disease	Survey results	 94% users responded to perceive drastic reduction in smoke compared to baseline scenario and 4% responded to reduce to some extent. 96% users responded to reduce respiratory problem. 96% responded positively to reduce eye and 98% responded to reduction in cough. 	
	Assessment			
	As per sample survey 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.		tive feedback related to health and monitoring procedure is as per m also interviewed end users who and illness.	
	Data variable	Source of Data	Reported value for the project period	
	Access to affordable and clean energy services	Project develope record / 20/, /03 /	ers 7,114 users are accessed to clean and affordable energy services.	
	Assessment			
	In line with the monitoring plan, 7,114 project ICS are installed and as per sample survey entire project ICS are in operation. Hence, 7,114 project users are accessed to affordable and clean energy services.			
	Continuous grievance me The PP have distributed gr Nepal. Register copies ver the extended team in village appointed, who takes up at the NGO members visit vi office in Kathmandu, Nepal received from the HH users	chanism: rievance register to i ified during site visit es where the ICS are ny complain related illages at regular in l, has appointed in-c	its NGO partners in each district in t. Further distributed partners have e disseminated and technicians are to usage & operation of ICS. Also, tervals. The Practical Action head charge to look after any grievances	
	As per records made avail users, there was no grieva understood, the ICS are h have any issue during the w	lable to the verificat ance received durin ighly efficient with love varranty period of first	tion team and discussion with end g this monitoring period. It is also ong life which are expected not to st five years.	
	CCIPL confirms that moni parameters during this mon are consistent with site visit	itoring of all the su itoring period is in li observations and in	ustainable development monitoring ne with the SD monitoring plan and terview with end users.	

E.10. Global stakeholder consultation

Means of verification	Not Applicable
Findings	Not Applicable.
Conclusion	Not Applicable.

SECTION F. Internal quality control

The final verification report passed a technical review before being submitted to the client for forward submission to GS. A technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification performed the technical review.

SECTION G. Verification opinion

Carbon Check (India) Private Ltd. (CCIPL) has performed the 3rd periodic verification of the GS Project Activity "Sustainable Market Development of Improved cooking in rural Nepal by Practical Action" in Nepal having GS reference number GS 10788.

The verification team assigned by the VVB concludes that the project activity as described in the registered PDD (version 1.3 of 03/11/2021) /02/ and the monitoring report (version 1.4 dated 01/09/2023) /01/, meets all relevant GS4GG requirements for project activity and UNFCCC requirements. The verification has been conducted in-line with the GS4GG requirements and requirements of VVS for CDM project activities (version 03.0) /09/.

Verification methodology and process:

The verification team confirms the contractual relationship signed on 06/02/2023 between the VVB, Carbon Check (India) Private Ltd. and Project Participants (Value Network Ventures Advisory Services Pte. Ltd.). The team assigned to the verification meets the CCIPL's internal procedures including the UNFCCC requirements for the team composition and competence. The verification team has conducted thorough review as per GS4GG, UNFCCC and CCIPL's procedures and requirements.

The verification has been performed as per the requirements described in the GS4GG requirements /05/ and constitutes the review and completion of the following steps:

- Reviewing the registered PDD (version 1.3; dated 03/11/2021) /02/;
- Receipt of the MR (version 1.0 dated 27/01/2023 and other versions) /01/;
- Desk review of the MR version 1.4 dated 01/09/2023 /01/ and other relevant documents;
- Review of the applied monitoring methodology (AMS-II.G, version 11.1) /04/;
- Review of any CMP and EB decisions, clarifications and guidance;
- On-site assessment (15/03/2023-16/03/2023);
- Resolution of CARs and CLs raised during verification;
- Issuance of Verification Report

VVB has raised 09 clarification requests, 12 Corrective action requests which are closed successfully. VVB also raised 01 Forward action request during this verification. (provided in appendix 4 of this document)

The project activity was correctly implemented according to the selected monitoring methodology and registered PDD /2/. Through document review and on-site visit assessment, the verification team confirms that the project activity has resulted in 10,545 tCO₂e emission reductions during this second monitoring period.

The break-up of emission reduction from 22/06/2021 to 21/06/2022 as verified during the course of verification are as below:

Vintage	Emission reductions (tCO ₂ e)
22/06/2021 to 31/12/2021	5,576
01/01/2022 to 21/06/2022	4,969

CCIPL therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

SECTION H. Certification statement

>>

It is CCIPL's opinion that the GHG emission reductions stated in the monitoring report, version 1.4 dated 001/09/2023 for project activity, "Sustainable Market Development of Improved cooking in rural Nepal by Practical Action" for period 22/06/2021 to 21/06/2022 (Inclusive of both the dates) are fairly stated. The GHG emission reductions were calculated correctly based on the approved monitoring methodology, AMS-II.G, version 11.1. Hence, CCIPL able to certify that the emission reductions from the project during the monitoring period 22/06/2021 to 21/06/2022 (Inclusive of both the dates) amount to 10,545 tCO₂e.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Pvt. Ltd.
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CDM-PCP	Clean Development Mechanism Project Cycle Procedure
CDM-PS	Clean Development Mechanism Project Standard
CDM-VVS	Clean Development Mechanism Validation and Verification Standard
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EIA	Environmental Impact Assessment
ER	Emission Reductions
ER	External Resources
ERPA	Emission Reduction Purchase Agreement
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS4GG	Gold Standard for Global Goals
GWP	Global Warming Potential
ICS	Improved Cooking Stoves
IPCC	Intergovernmental Panel on Climate Change
LDC	Least Developed Country
LoA	Letter of Approval
LSC	Local Stakeholder Consultation
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-governmental Organization
NRB	Non-renewable Biomass
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
SD	Sustainability Development
SDG	Sustainable Development Goals
SMP	Sustainability Monitoring Plan
SS(s)	Sectoral Scope(s)

UNFCCC	United Nations Framework Convention on Climate Change
VER	Voluntary Emission Reduction
VNV	Value Network Ventures Advisory Services Pte. Ltd.
VVB	Validation and Verification Body
VVS	Validation and verification standard

Appendix 2. Competence of team members and technical reviewers





Carbon Check (India) Private Limited

Certificate of Competency

Mr. Kiran K V

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 Lead	ler	🛛 Technical Expert	
Technical Reviewer	🗆 Health Expert	🗆 Gender Ex	pert	Plastic Waste Expert	
⊠ SDG+	🛛 Social no-harm(S+)	🛛 Environme	ent no-harm(E+)	CCB Expert	
🗆 Financial Expert	🛛 Local Expert for Inc	lia			
	in the follo	wing Technical A	reas:		
🗆 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				
lssue	e Date		Expiry	/ Date	
1 st Janu	ary 2023		31 st Decer	nber 2023	
Vines 2 Bil					
Mr. Vikash Kumar Singh			Mr. Amit Anand		
Compli	ance Officer		CI	0	
CCIPL_FM 7.9 Certificate of Competen	cy_V2.1_012023				



Carbon Check (India) Private Limited

Certificate of Competency

Prasan Karmacharya

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 Lead	er	Technical Expert
Technical Reviewer	🗆 Health Expert	🗆 Gender Exp	pert	🗆 Plastic Waste Expert
□ SDG+	□ Social no-harm(S+)) 🗆 Environme	nt no-harm(E+)	CCB Expert
Financial Expert	□ Financial Expert			
	in the follo	owing Technical Ar	eas:	
🗆 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			
5 5 5 7				
lssue	Date		Expiry	/ Date
03 rd Ma	ay 2023		02 nd Ma	ay 2024
Virash l. S.S.				
Mr. Vikash Kumar Singh Compliance Officer			Mr. Amit Anand	
CCIPL_FM 7.9 Certificate of Competency_V2.1_012023				
		ana	ana	



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 Lead	er	🛛 Technical Expert	
🛛 Technical Reviewer	🗌 Health Expert	🗌 Gender Ex	pert	🗆 Plastic Waste Expert	
⊠ SDG+	Social no-harm(S+)) 🛛 Environme	ent no-harm(E+)	CCB Expert	
🛛 Financial Expert	⊠ Local Expert for In	Expert for India and Sri Lanka			
	owing Technical A	reas:			
🛛 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	e Date		Expir	y Date	
1 st Janu	ary 2023		31 st December 2023		
Viewson L. S.S			Imilio		
Mr. Vikash Kumar Singh			Mr. Amit Anand		
Compliance Officer			c	EO	
CCIPL_FM 7.9 Certificate of Competer	ку_V2.1_012023				

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the	Provider
01	VNV	Monitoring report for the project activity	a. Version 01 of	PP
-		'Sustainable Market Development of Improved	27/01/2023	
		cooking in rural Nepal by Practical Action'	b. version1.4 dated	
		covering period 22/06/2020 to 21/06/2021	01/09/2023	
		a. Initial MR		
02		D. Final MR	Varaian 12 of	
02	VINV	PDD for the project activity Sustainable Market	03/11/2021	PP
		by Practical Action	03/11/2021	
03	VNV	Emission reduction worksheet 'Nepal ICS ER		PP
		monitored- MP 03_GS-final		
04	UNFCCC	Small-scale Methodology AMS-II.G 'Energy	Version 11.1	Publicly
		efficiency measures in thermal applications of		available
05	0.11	non-renewable biomass'		DIN
05	Gold	Gold Standard for the Global Goals Principles & Version 1.2 of October		Publicly
06	Gold	Gold Standard for the Global Goals CS Activity Version 1.2 of October		Publicly
00	Standard	Requirements 2019		available
07	CCIPL	Validation report for the project 'Sustainable Version 1.1 of		VVB
•		Market Development of Improved cooking in rural	10/06/2021	
		Nepal by Practical Action'		
08	VNV &	Agreement for transaction of carbon credit from	Agreement copy	PP
	Practical	the project activity 'Sustainable Market		
	Action	Development of Improved cooking in rural Nepal		
		by Practical Action		DIN
09	UNFCCC	CDM validation and verification standard		Publicly
10	UNECCC	Guidelines for Sampling and Surveys for CDM	Ver 4.0 (FB86 Annex	Publicly
10		Project activities and Programme of Activities	4)	available
			,	
11	UNFCCC	Standard for Sampling and surveys for CDM	Version 09	Publicly
		project activities and programmes of activities		available
12	UNFCCC	LDC Country Information	http://unfccc.int/cooperat	Publicly
			ion and support/idc/ite	available
13		Guideline: Application of materiality in verifications	Version 2	Publicly
15				available
14	Gold	COVID-19: Interim Measures		Publicly
	Standard			available
15	Greenway	Technical specification of ICS model 'Greenway		PP
	Grameen	Jumbo Stoves'		
	Infra Pvt.			
10	Ltd.			
16	Husk	I Echnical specification of ICS model 'HPN JE-01		PP
	Nonal Pvt			
	I td			
17	End user	Sample copies of end user agreement between	Agreement copies	PP
-	agreement	Practical Action and end user/commissioning	0	
	_	certificate		
18	Practical	Proof of employment		PP
	action			
19	Practical	Maintenance forms		
20	ACIION Practical	Grievance register		DD
20	Action			

21	VNV	Random sample selection evidence	
22	Practical	Enumerator training records	
	action		
23	Practical	Project ownership evidence	
	action		
24	VNV	MP 3 survey report	
25	VNV	Project database	
26	VNV	Sample survey form (monitoring survey)	

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

Table 1: Forward action request from previous verification.

FAR ID 01	Section No.	Date: 28/06/2022		
Description of FAR				
The UNFCCC sampling and survey guidelines, version 04, recommends data processing and report generation in clause 9.4. PP is requested to prepare a Survey Report compiling information and aligning with sampling and survey guidelines from next monitoring for improving QA/QC. The verifying entity shall check the same in next verification.				
Project participant response Date: 17/05/2023				
As per the raised FAR, PP has prep	pared a survey report for the	e current monitoring period		
Documentation provided by proje	ect participant			
Nepal GS ICS MP03 Survey report				
VVB assessment		Date: 28/06/2023		
PP has provided the survey report of the current monitoring period to the VVB/24/ and the same has been reviewed and confirm that the report contains information on the sampling and survey guideline and the provided information is in line with the applicable PDD, and UNFCC sampling and survey guideline.				

Thus, the FAR is closed.

Table 2: Clarification requests

CL ID	01	Section no.	KPI	Date: 16/05/2023		
Description	of CL					
As per the GS monitoring report template, the project representative is the official focal point for the project, which may also be the project developer. In the GS project registry, the project developer is given as "Value						
Network Ven	ture Advisory pvt ltd w	hich is also the p	arty with whom the contract h	as been signed for the		
current verific	ation service by VVB.	Whereas, PP ha	as provided the project represe	entative as "Mr. Sandeep		
Roy Choudha	ary" in the KPI table of	the MR. PP is re	equested to clarify the discrepa	ancy.		
Project parti	cipant response			Date: 17/05/2023		
PP has corre	cted the typo in the re-	vised MR.				
Documentat	Documentation provided by CME					
PerfCert_V1.	1-Monitoring-Report_N	VP 03				
DOE assess	ment			Date: 28/06/2023		
It has been observed that the PP has revised the KPI table of the MR and has mentioned the project representative as "Value network Venture Advisory pvt Itd" which is consistent with the GS registry and the contract with VVB.						
Thus, the find	ling is closed.					
CL ID	02	Section no	D2	Date : 16/05/2023		

Description of CL

n no. D.2

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It has been observed that PP has chosen a sample size of 33 households for each stove model (3 in total) for the determination of the parameter uy (Adjustment to account for any continued use of pre project devises during the year y). From the survey, each household is given a value of 1 if only ICS is being used in the project scenario and a value of 0.5 is given for a household who uses both ICS and baseline traditional stove in the project scenario.

During the on-site visit, VVB selected 11 samples from the total population of 99 stoves (33 per stove model) and sampled 4 household each for the stoves HPNJE-0IND and Greenway Jumbo and 3 HH for HPN01FD. Among the sample surveyed, VVB has observed that 1 household from each Stove model uses traditional baseline stoves along with project ICS in the project scenario providing an average uv value lower than the value provided by PP. Please refer to the table below.

Stove	Sample size of PP	No of households using both baseline stove and project stove	μ_(y)	VVB sample	No of household using booth baseline stove and project ICS	µ_(y)	% discrepancy
HPNJE- 01ND	33	4	0.9393	4	1	0.875	7.34
HPN-01FD	33	1	0.9843	3	1	0.833	18.16
Greenway Jumbo	33	2	0.9677	4	1	0.875	7.4

PP is requested to clarify on the discrepancy in the value produced through VVB sample survey and PP sample survey and how the value has been applied conservatively.

Project participant response

Date: 17/05/2023 PP would like to clarify that monitoring survey took place between 01/06/2022 till 10/06/2022 and during the survey the users had mentioned not using the baseline stove. However, to be more conservative we have revised the usage rate based on the responses provided to VVB and revised the ERs accordingly.

Documentation provided by CME

- 1. PerfCert_V1.1-Monitoring-Report_MP 03
- 2. Nepal ICS ER monitored- MP 03 GS-final

DOE assessment

Date: 28/06/2023

It has been observed that PP has revised the value of parameter " $\mu(y)$ " in both MR and excel sheet. However, the following observations require further clarification.

1. PP is requested to clarify how the adjustment in the ER value has been made based on the discrepancy found in the value of the parameter μ_{y} between the PP sample and VVB samples.

2. On comparing the initial ER sheet and updated ER sheet, it has been observed that some of the households (Tab: sample survey, Column "p") which responded to the question "Do you use your traditional (baseline) cookstove also?" as "No" in the initial ER sheet, has been marked as "yes" in the updated ER sheet (households in cell P6, P22,P42, P45, P53, P54, P57, P80, P85, P96, P101, and P105), PP to clarify the discrepancy in the survey records.

Thus, the finding is open

Project participant response

Date: 04/07/2023

Date: 17/07/2023

- 1. PP would like to clarify that the ER value has been reduced by reducing the usage rate to be conservative and also taking account that the precision of error is well below 10%. The usage rate has been reduced to 90% or less to be conservative.
- The responses have been revised and updated back as per the initial responses by the users. 2. Instead a separate column has been now introduced to reduce the usage rate and be conservative and the same has been accounted for the ER calculations as well. The same has been mentioned in the revised MR as well.

Documentation provided by CME

- PerfCert V1.1-Monitoring-Report MP 03 1.
- 2. Nepal ICS ER monitored- MP 03 GS

DOE assessment

The PP has added an additional column "AD" in the ER sheet "Nepal ICS ER monitored- MP 03_GS" where additional HH samples were represented with the use of baseline stove in the project scenario and as a result, the value of Uy has been revised as follows.

HPNJE-01ND - 0.9090 HPN-01FD - 0.9090 Greenway Jumbo - 0.8939.

The approach is deemed acceptable as the value has been derived from the PP samples that follows the Confidence and precision level as required, while the VVB samples are based on acceptance sampling and the confidence and precision level (90/10) does not meet the methodology requirement (Para 46 of CDM methodology AMS-II.G version 11.1). The ER value has been made conservative by the application of revised value as per the para 38 of CDM standard for Sampling and surveys for CDM project activities and programmes of activities version 09.0

Thus, the finding is closed.







Thus, the finding is closed.

CL ID	04	Section no.	B.4	Date: 16/05/2023		
Description of CL						
In the section B.4 of PDD v.1.3, PP has identified the baseline as the use of non-renewable biomass, and						
has mentione	d that " The use of oth	er fossil fuels lik	e kerosene and LPG is insigni	ficant", also as per the		
applicable me	ethodology AMS-II.G v	.11.1, in the abs	ence of the project activity, the	e baseline scenario would		
be the use of	fossil fuels for meeting	g similar thermal	energy needs.			
Also, based o	on the review of the ER	sheet "Nepal IC	CS ER monitored- MP 03_GS-	final", sheet "sample		
survey:, colur	nn "R", no household v	were shown usin	ig any other stove or cooking i	nstrument apart from		
project stove	during the current mor	nitoring period, E	But in the column "0", the numl	ber of meals prepared		
using project	stoves per week is fou	nd to be less that	an 21 for most of the samples.			
During the on	-site visit, among the 1	1 samples visite	ed by the VVB, use of LPG has	s been identified in 10		
households a	nd rice cooker in one h	nousehold. Some	e of the households has been	using the LPG even before		
the project sta	art date. Based on the	assessment of t	he survey response provided l	by sampled households, it		
nas been obs	erved that on an avera	age, 5.23 meals	per nousenoid in a week has t	been prepared in LPG and		
other cooking	devices. Assuming th	at 21 meals are	prepared per week per nouse	noid, PP is requested to		
clarity now the	e use of non project de	evice for cooking	has been adjusted in the ER			
Project parti	Project participant response Date: 17/05/2023					
PP has now adjusted the ER calculations based on the use of non-project devices and no. of meals and has						
decreased the ERs by multiplying it by a conservative factor i.e. 0.7509 which was deduced from assuming						
5.23 meals per household in a week prepared using LPG and other cooking device like rice cooker.						
Therefore, the no. of meals cooked using non-project device for 11 samples is 57.53. Further, the no. of						
meals using p	project device would be	e 173. 47 (which	comes by subtracting 11*21=	231 meals using project		
device from 5	7.53 meals using non-	project devices)	. Therefore, 173.47 divided by	the 231 meals comes out		
to be 0.7509	which has been multip	lied with the ERs	s to be conservative. The same	e amount of ERs will be		

claimed by the PP. Refer to "Total ER" tab of the ER sheet.

Documentation provided by CME

Revised MR and ER sheet **DOE assessment**

Date: 28/06/2023

As per para 36 and 38(b) of CDM standard for Sampling and surveys for CDM project activities and programmes of activities, the acceptance number is found to be more than c, therefore the emission reduction has been revised to be more conservative. The approach used by PP is deemed to be acceptable to VVB.

Thus, the finding is closed.

CL ID	05	Section no.	D.4	Date: 16/05/2023	
Description of CL					
In the section D.4, page number 24 of MR. PP has provided the value for p (expected proportion as 0.9. In the footnote 2 provided in the page, it has been mentioned that "The expected proportion has been taken as 0.9 for the second monitoring period". PP is requested to revise the statement as the current monitoring period number is 3. Also pp is requested to clarify how the value is applicable for the current monitoring period and add the justification as a footnote.					
Project parti	cipant response			Date: 17/05/2023	
PP has rectil requirement a	PP has rectified the typo in the revised MR. The expected proportion has been taken as 0.9 as per the requirement and the same has been mentioned and approved in registered PDD				
Documentat	Documentation provided by CME				
PerfCert_V1.1-Monitoring-Report_MP 03					
DOE assess	ment			Date: 28/06/2023	
It has been o of the MR a compliance w	bserved that PP has r nd provided the justi <i>i</i> ith the PDD.	evised the state fication for its	ment provided in the footnote applicability in the current m	provided in the section D.4 onitoring period as it is in	

Thus, the finding is closed.

CL ID	06	Section no.	E.1	Date: 16/05/2023		
Description	of CL					
In the section E.1 of MR, the value for parameter Uy for the stove Greenway Jumbo is given as 0.97 which is						
also used in t	he ER sheet for the ca	Iculation, while	the value provided in the secti	on D.2 of MR is 0.9677. PP		
is requested	to clarify how the value	e has been cons	ervatively used.			
Project parti	cipant response			Date: 17/05/2023		
The usage ra	ite has been now upda	ated in both MR	and ER, it is taken conservat	ively as rounding off to four		
decimal place	es for ease of calculation	on.				
Documentat	ion provided by CME					
1. PerfC	ert_V1.1-Monitoring-Rep	port_MP 03				
2. Nepa	ICS ER monitored- MP C	3_GS-final				
DOE assessment Date: 28/06/2023						
It has been o	bserved that the PP I	has revised the	value of the parameter U_y in	the MR and the value has		
been found to	be consistent betwee	en ER and MR.				
Thus, the find	ling is closed.					
CL ID	07	Section no.	B.6.1	Date: 16/05/2023		
Description of CL						
As per the section B.6.1 of the PDD v.1.3, PP has identified 7 parameters for the monitoring of SDG3,						
namely N1 (number of respondent who said that smoke reduced drastically), N2 (Number of respondent who						
said that smoke reduced to some extent), N3 (Number of respondent who said that they did not visit hospital						
for breathing	related illness, N4 (Nu	mber of respond	dent who said that they visit th	e hospital or faced		
breathing rela	ated issues, Nr (numbe	er of respondent	not faced respiratory problem	, NC (Number of		
respondent n	ot facing cough proble	m), NI (Number	of respondent not facing itchy	eye incidence).		

However, as described in the section A.1 (E.2 as per template) of MR, PP has not considered parameter N3 and N4 for the monitoring of SDG in the current monitoring period. PP is requested to provide a clarification in the discrepancy in the monitoring procedure observed.

Project	partici	pant res	ponse
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The perception of any incidence of disease has been linked to the no. of times HH user visited hospital due

to breathing/cough/eye infection related problems. Please refer to the monitoring parameter i.e., air quality in section D.2 of the MR. The same has been approved during previous verifications as well. PP has also reported the same in ER calculation sheet tab-Sample survey under column Y, Z, AA **Documentation provided by CME DOE** assessment Date: 28/06/2023 Based on the review of the PP's response as well as the approach used, which has been approved in the previous verification. Hence, this justification is deemed to be acceptable by the VVB. Thus, the finding is closed. **CL ID** Date: 16/05/2023 08 Section no. D.2 **Description of CL** In the section D.2 of MR, the value for the parameter $N_{y,l,a}$ is given as 3876, 61, and 3177 for the stoves HPN-01FD, Greenway Jumbo, and HPNJE-01ND respectively. In section B.1, PP has mentioned that "During the current MP, additional 3,800 new HPN-01FD stoves were distributed.. In the section E.1, PP has calculated the ER for the 3800 new HPN-01FD ICS and 76 old HPN-01FD ICS separately. Based on the review of the project database sheet, VVB has observed that the 1885 stoves were distributed on 2022 alone during the dates from 13/01/2022 to 23/05/2022. Other stoves were distributed from June 2021 to December 2021. PP is requested to clarify how the duration prior to the start date of operation has been excludes from the monitoring period duration for the emission reduction calculation for these new stoves. Moreover, only the date of sale of these stoves are provided in the database, PP is requested to clarify how the actual date of installation/start date of operation has been determined Date: 17/05/2023 **Project participant response** Based on days if we calculate then ERs are coming high (refer to tab ICS wise ER calculations in ER calculation sheet) i.e., 20,536 but actual ERs we have considered is 14,111. Hence, to be conservative we are not using day wise calculations. Also, the date of sale is the day when the carbon waiver was signed. and installation was done. Documentation provided by CME **DOE** assessment Date: 28/06/2023 VVB has review the project database, ER sheet, Carbon waiver form/commissioning certificate and has observed the following. 1. ER calculation based on operational days of individual stoves is found to be less conservative than approach used by PP (Multiplying total stoves distributed with ER per ICS), therefore the approach used by PP is deemed to be acceptable. 2. The date of sale mentioned in the ER sheet is also the date in which carbon waiver has been signed and the ICS was installed in the household. Thus, the finding is closed. CL ID 09 Section no. Survey sheet Date: 16/05/2023 **Description of CL** In the column "O" in tab "Sample survey", household response to the question "How many meals did you prepared using project cookstove last week or last month?" has been added. From the analysis of the responses, the following observation require clarifications, 1. It is not clear if the number of meals recorded is per week or month 2. the number of meals cooked per day per household has not been provided 3. considering that 3 meals are cooked per day, total no of 21 meals shall be accounted for one household per week. However, from the review of information provided in the column, it has been observed that the total number of meals cooked per household is less than 21 meals on the project ICS. In view of this, PP shall explain the stoves used to cook the remaining meals and how they have been accounted in calculation of ER. Project participant response Date: 02/08/2023 1. The no. of meals recorded is per week and the same has been revised now in the question mentioned in the ER sheet. 2. PP has asked only the no. of meals cooked by the user in a week during the monitoring survey and the same has been approved during the previous verifications as well.

3. PP would like to clarify that it is not necessary that the user will cook three times a day only. Sometimes they can cook only once or twice a day by cooking a major amount of the meal (rice or vegetable- rice being a staple food in Nepal) at once or twice. It is the no. of times which user felt they cook in a week and that has been mentioned as per the user's response only.

Documentation provided by CME

DOE assessment

1. Okay, issued closed.

2. The justification is not acceptable as precedence cannot be a justification of this issue. This part of CL is open.

3. The justification is not acceptable. PP shall explain the stoves used to cook the remaining meals and how they have been accounted in calculation of ER. This part of CL is open. Date:21/08/2023

Project participant response

2. PP would like to clarify that from the next monitoring period, the survey will include a question on the no. of meals cooked per day. It is requested if a FAR can be raised for the same by the VVB.

3. PP has now adjusted the ER calculations based on the use of non-project devices and no. of meals and has decreased the ERs by multiplying it by a conservative factor i.e. 0.7509 which was deduced from assuming 5.23 meals per household in a week prepared using LPG and other cooking device like rice cooker. Therefore, the no. of meals cooked using non-project device for 11 samples is 57.53. Further, the no. of meals using project device would be 173. 47 (which comes by subtracting 11*21= 231 meals using project device from 57.53 meals using non-project devices). Therefore, 173.47 divided by the 231 meals comes out to be 0.7509 which has been multiplied with the ERs to be conservative. The same amount of ERs will be claimed by the PP. Refer to "Total ER" tab of the ER sheet.

DOE assessment

2. FAR has been raised.

3. PP based on the assumption that the remaining meals are cooked using non-project stoves, have provided the justification above, which is deemed to be acceptable to VVB. ER value has been adjusted to account for the use of non-project stoves) Thus, finding is closed

Table 3: Corrective action requests

CAR ID	01	Section no.	KPI	Date: 16/05/2023
Description of CAR				
In the table 1 of the MR, PP is requested to clearly summarize the GS products and certified impact				
statement which are requested for issuance as per the monitoring plan in the design certified PDD.				
In the table 2 of MR, PP is only requested to add the details of only the products identified in the table 1.			dentified in the table 1.	
Project participant response Date: 17/05/2023			Date: 17/05/2023	
The table-1 has now been updated in the revised MR. Table-2 has already mention the products identified				
and the same has been approved in previous verifications as well.				
Documentation provided by CME				
PerfCert_V1.1-Monitoring-Report_MP 03				
DOE assess	ment			Date: 28/06/2023
It has been observed that PP has revised the table 1 and table 2 and has been made consistent with the				

It has been observe evised the table 1 and table 2 and has been PDD.

Thus, the finding is closed.

Version 03.0

It has been observed that the statement provided for SDG impacts in the table 1 of the MR is inconsistent				
The table-1 has now been updated in the revised MR.				
Documentation provided by CME				
PerfCert_V1.1-Monitoring-Report_MP 03				
It has been observed that the statement provided for SDG impact in the MR has been made consistent with PDD				

Date: 07/08/2023

Date: 31/08/2023

Thus, the finding is closed.

CAR ID 03 Section no. A.4 Date: 16/05/2023			
Description of CAR			
The section A.4 of the MR is requested to be revised as per the following comments.			
1. 22/06/2019 is the start date of the project activity. In the MR, it is given as crediting period.			
2. As per the PDD v.1.3, section C.2.2, the crediting period is renewable. This information is not provided	in		
MR.	امار بر		
3. As per the GS monitoring report template guide, the state date and end date of the crediting period sho	Juid		
Project participant response			
1 PD has rectified the typo			
2 PP has undated the section			
3 The format is already in DD/MM/YYYY in section A 4			
Documentation provided by CMF			
PerfCert V1 1-Monitoring-Report MP 03			
DOE assessment Date: 28/06/2023			
It has been observed that PP has revised the MR considering all the above points and the informatic	on in		
section A.4 of MR has been made consistent with the GS monitoring report template and PDD.			
Thus, the finding is closed			
CAR ID 04 Section no. B.1 Date: 16/05/2023			
Description of CAR			
In the section B.1 of MR, PP has provided the total estimated target of ICS distribution and the ICS			
distributed during this monitoring period. PP is also requested to mention the total number of ICS distribut	ted		
till the end of the last monitoring period.			
Moreover, PP is also requested to add the actual energy saving achieved during this MP from the total			
stoves in operational and demonstrate whether the annual energy saving achieved during this will from the total	/h		
Project participant response Date: 17/05/2023			
PP has updated the section in revised MR. PP would like to explain that please refer to the ER sheet	tab		
monitored ERs cell H30 to verify threshold limit demonstration for small scale.			
Documentation provided by CME			
PerfCert_V1.1-Monitoring-Report_MP 03, ER sheet			
DOE assessment Date: 28/06/2023			
It has been observed that PP has provide a statement in the section B.1 of the MR that "There were	total		
3134 ICS operational till last monitoring period", while the value is found to be 3314 in the section D.3 of MR.			
PP is requested to correct/clarify the inconsistency.			
I nus, the finding is open.			
The type error has been new restified			
The type error has been now rectilied.			
PerfCert V1.1-Monitoring-Report MP.03			
DOF assessment Date: 17/07/2023			
PP has provided the information on the number of stoves that are distributed in the last monitoring period in			
the section B.1 of the MR, the value is found to be consistent with other section of the MR and last			
monitoring/verification report.			
5			
Based on the review of the ER sheet, Tab " Monitored ERs", ell H30, it has been confirmed that the ac	tual		
energy saving of the project activity per year is less than the threshold value of 180 GWhth.			
Thus, the finding is closed			

Description of CAR

In the section D.2 of the MR, PP is requested to provide the reference to excel sheet (including sheet name, cell number) as the source for the parameter $N_{y,l,a,}$, μ_y , Date of commissioning of project device (column

Date: 17/05/2023

number), N_{d, HH}, SDG3, SDG7.

Project participant response

The references has been now added in the revised MR. **Documentation provided by CME**

PerfCert_V1.1-Monitoring-Report_MP 03

DOE assessment

Date: 28/06/2023 It has been observed that the reference to the excel sheet has been provided for the above mentioned parameter in the section .2 of MR.

Thus, the finding is closed.

		1			
CAR ID	06	Section no.	D.3	Date: 16/05/2023	
Description	of CAR				
It has been o compared to monitoring re	It has been observed that the value of parameter N _{yia} has been increased in the current monitoring period compared to last monitoring period. As per the GS monitoring template guideline, in section D.3 of the GS monitoring report PP is requested to add a short explanation for any values that have increased				
Project parti	cipant response			Date: 17/05/2023	
PP has upda	ted the section in the r	evised MR			
Documentat	ion provided by CME				
PerfCert_V1.	1-Monitoring-Report_N	MP 03			
DOE assess	ment			Date: 28/06/2023	
It has been of N _{yia} in the of deemed to be Thus, the find	bserved that the PP h urrent monitoring peri e acceptable to the VV ding is closed.	has added the st lod compared to 'B.	atement regarding the increase the last monitoring period.	se in the value of parameter The justification provided is	
CAR ID	07	Section no.	E.1	Date: 16/05/2023	
Description	of CAR				
It has been observed that in the section E.1 of the MR, PP has provided the baseline value only for SDG 13. PP is requested to add the baseline value of each SDG under their respective heading. Moreover, PP is requested to revisit the section E.2 and A.1 of the MR. the section E.2 the baseline estimate of SDG3 and 7 has been provided while in the section A.1 is provided incorrectly. Moreover, the baseline estimate provided for SDG 7 in the section E.2 of MR is observed to the baseline estimate for SDG 3. PP is					
Project parti	cinant response			Date: 17/05/2023	
PP has revise	ed the statement and u	updated the sect	ion in the revised MR		
Documentat	ion provided by CME				
PerfCert V1.	1-Monitoring-Report	MP 03			
DOE assess	ment			Date: 28/06/2023	
As per the GS Monitoring report template guideline, in the section E.1 of MR, "Under a heading for each SDG, provide sample calculations for all formulae used to calculate/estimate baseline values (SDG 13 - emissions or net baseline removals), applying actual values. Clearly reference the spreadsheets used (including sheet names as necessary) and supply them as supporting evidence to the monitoring report. The aim is to direct your assurance providers to the information as quickly as possible, which will result in a quicker review process", therefore PP is requested to provide the actual baseline of SDG 3 and SDG 7 in the section E.1 of the MR.					
Moreover, as per the GS monitoring report template guideline "Under a heading for each SDG, provide sample calculations for all formulae used to calculate/estimate project values (SDG 13 - emissions or net removals), applying actual values. Clearly reference the spreadsheets used (including sheet names as necessary) and supply them as supporting evidence to the monitoring report. The aim is to direct your assurance providers to the information as quickly as possible, which will result in a quicker review process.".					
It has been observed that the section E.2 in the MR is followed by section A.2, both of the section has a heading "Calculation of project value or estimation of project situation of each SDG Impact". PP is requested to keep only the required section and remove the additional one.					
I					

The values provided in the section E.1 and E.2 of MR should be consistent with the values provided in the section E.4 of the MR.

Thus, the finding is open.

Project participant response The rectification has been now done in the revised MR. Date: 04/07/2023

Documentation provided by CME PerfCert_V1.1-Monitoring-Report_MP 03

DOE assessment

Date: 17/07/2023 It has been observed that the PP has revised the section E.1 and E.2 of MR and has been made consistent with the GS monitoring report template guideline.

Thus, the finding is closed.

CAR ID 08	Section no.	E.2	Date: 16/05/2023	
Description of CAR			i .	
It has been observed that in the section A.1 of the MR (E.2 as per the template), the description provided for the parameter Nb and Np for the calculation of SDG 7 is not consistent with the description of these parameters provided in the section B.6.1 of the PDD. PP is requested maintain the consistency in the description statement between MR and PDD				
Project participant response			Date: 17/05/2023	
PP has updated the section in the	revised MR			
Documentation provided by CM	Ε			
PerfCert_V1.1-Monitoring-Report_	MP 03			
DOE assessment			Date: 28/06/2023	
It has been observed that the PP consistent with the PDD.	has revised the	description of the parameter	in MR and has been made	
Thus, the finding is closed.				
_				
CAR ID 09	Section no.	E.4	Date: 16/05/2023	
Description of CAR				
It has been observed that in the section E.4 of the MR, PP has provided the ex ante value of SDG 13. However, the calculation of this value is not provided in the ER, PP is requested to provide the same in the ER and provide the reference to the ER sheet as a footnote in the MR.				
Moreover, in section E.5.1, PP has provide a total ER value of 35,321 under the ex ante emission reduction calculation table of the stove HPN-JE-01ND. PP is requested to remove the same as it is observed to the the total Ex ante ER value for 3 stoves combined				
Project participant response			Date: 17/05/2023	
The value mentioned in E.4. is of Calculation of net benefits or direct calculation for each SDG Impact and not of ex-ante value				
The ex-ante value is correctly men	The ex-ante value is correctly mentioned under total emission (row) and ER as per PDD (column)			
Documentation provided by CM	E	· · · · · · · · · · · · · · · · · · ·		
DOE assessment			Date: 28/06/2023	
In the section B.5.1 of the MR, (page number 41) PP has provided the total estimated ex ante ER value of 35,321 tCO2 below the ex-ante calculation table of the stove HPN JE-01 ND, while the same value has been provided again in the page number 42 below the ex ante ER calculation of all the ICS. PP is request to remove the total ex ante value given in the page 41 if found to be additional.				
Also, It has been observed that in the section E.5 of the MR, PP has provided the ex ante value of SDG 13 (35,321 tCO ₂). However, the calculation of this value is not provided in the ER, PP is requested to provide the same in the ER and provide the reference to the ER sheet as a footnote in the MR				
Thus, the finding is closed.				
	Section no	D 4 4	Dete: 16/05/2022	
Description of CAP	Section no.	D.1.1	Date: 10/05/2023	
As per the review of the previous verification report v1.1 dated 21/07/2022 A EAR has been raised which is				
not mentioned in the section B 1 1	of MR. PP is rea	uested to add the same with i	(esponse.	

Project participant response

Date: 17/05/2023

PP has updated the section in the revised MR

Documentation provided by CME PerfCert_V1.1-Monitoring-Report_MP 03

DOE assessment

Date: 28/06/2023 It has been observed that the PP has added the FAR raised in the previous verification report in the section B.1.1 of the MR.

Thus, the finding is closed

CAR ID	11	Section no.	MR	Date: 16/05/2023
Description	of CAR			
It has been observed that PP has not represented the parameters in the MR in appropriate format. PP is requested to keep the proper sub script and superscript for all the parameters wherever applicable				
Project parti	cipant response			Date: 17/05/2023
PP has updated the section in the revised MR				
Documentation provided by CME				
PerfCert_V1.1-Monitoring-Report_MP 03				
DOE assessment Date: 28/06/2023			Date: 28/06/2023	
PP has revised the MR with proper representation of the parameters.				

Thus, the finding is closed.

CAR ID	12	Section no.	D.4	Date: 16/05/2023
Description	of CAR			
In the section D.4 of the MR, PP is requested to add the number of enumerators who conducted the				
enumerator, t	heir training records a	re also requeste	ed to be provided.	
Project parti	cipant response			Date: 17/05/2023
PP has upda	ted the section in the	revised MR. Th	ne evidence of employment h	as been provided and their
training recor	ds has already been s	hared previously	/ please refer to 'Training reco	rds' folder.
Documentati	Documentation provided by CME			
PerfCert_V1.1-Monitoring-Report_MP 03				
Employment folder				
DOE assess	ment			Date: 28/06/2023
It has been observed that PP has revised the section D.4 of the MR and the details of the enumerators who				
conducted the monitoring survey has been added. VVB confirms that these enumerators has undergone				
monitoring survey training based on the review of the training records provided by the PP. Their proof of				
employment	has also been cross cr		by reviewing the employment i	a card provided to the VVB

Thus, the finding is closed.

Table 4: Forward Action Requests from this Verification

FAR ID	01	Section no.		Date: 11/09/2023	
Description	of FAR				
During the subsequent monitoring survey, PP should ensure that the number of meals cooked per day per household for all the cooking devices are documented. VVB shall verify the same.					
Project parti	cipant response			Date:	
Documentation provided by CME					
DOE assess	ment			Date:	

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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.
Decision Documen Business Keywords	Class: Regulatory it Type: Form Function: Issuance s: project activities, verifyi	ng and certifying