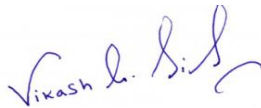




**Validation report form for renewal of CDM programme of activities period
(Version 03.0)**

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the programme of activities (PoA)	Title: Promotion of the Improved Cooking Stove (ICS) – Nepal UNFCCC ref no: 9902
Number and duration of the next PoA period	2 nd Crediting period. Duration: 27/03/2022 to 26/03/2029
Version number of the validation report	1.2
Completion date of the validation report	26/04/2022
Version number of PoA-DD to which this report applies	Version 13 of 20/04/2022
Coordinating/managing entity (CME)	Alternative Energy Promotion Centre (AEPC)
Host Parties	Nepal
Applied methodologies and standardized baselines	AMS-II.G- Energy efficiency measures in thermal applications of non-renewable biomass (Version 12)
Mandatory sectoral scopes	3
Conditional sectoral scopes, if applicable	NA
Name and UNFCCC reference number of the DOE	Carbon Check India Pvt. Ltd. UNFCCC reference number: E-0052
Name, position and signature of the approver of the validation report	 Vikash Kumar Singh, Compliance Officer

SECTION A. Executive summary

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Purpose and general description and location:

The Programme of activities comprises promotion of Improved Cooking Stoves (ICS) by Alternative Energy Promotion Centre (AEPC) which is a nodal agency for promoting Renewable Energy technologies (RETs) in Federal Democratic Republic of Nepal and also the co-ordinating and managing entity of this PoA. The use of fuel efficient improved cooking stoves would lead to less consumption of fuel-wood which would thus reduce the emissions from the stoves. The PoA includes metallic ICS which is designed and developed by Kathmandu University with support from AEPC.

The programme of activities are implemented throughout Nepal.

Validation scope:

The objective of the Validation is to have an independent evaluation of a PoA with each generic component project activity (CPAs) and any CPA proposed to be included in the PoA by a designated operational entity against the requirements of the CDM as set out in decision 3/CMP.1, its annex and relevant decisions of the COP/MOP, on the basis of the Programme Design Document (POA-DD) and of the Component Project Activity Design Document (CPA-DD). In particular, the demonstration of additionality of the PoA as a whole, the eligibility criteria for inclusion of a CPA in the PoA, the baseline determination for each generic CPA, the monitoring plan for each generic CPA, the estimated emission reduction from any CPA proposed in the project and the programme's compliance with relevant UNFCCC requirements and host Party criteria are validated in order to confirm that the programme design, as documented, is sound and reasonable and meets the identified criteria. Validation is a requirement for all CDM PoA projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of certified emission reductions (CERs).

The validation scope is to review the PoA-DD/CPA-DD against the UNFCCC criteria for CDM.

UNFCCC criteria for CDM refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, the procedures for registration of programme of activity as a single CDM and the subsequent decisions by the CDM Executive Board.

Validation is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

Validation process:

Validation was conducted using Carbon Check procedures in line with the requirements specified in the CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques.

The validation consisted of the following three phases:

- Document review;
- Follow-up actions;
- The resolution of outstanding issues and the issuance of the final validation report.

Conclusion:

Alternative Energy Promotion Centre (AEPC) has appointed Carbon Check to carry out the validation (renewal of crediting period) of the PoA "Promotion of the Improved Cooking Stove (ICS) – Nepal" in Nepal, with regard to the relevant requirements for CDM activities.

This report summarizes the findings from the validation of the updated PoA-DD, performed on the basis of UNFCCC criteria for CDM, as well as criteria given by the CDM Validation and Verification Standard for PoA, CDM Project Cycle Procedure for PoA and CDM Project Standard for PoA and included an assessment of:

(a) The impact of new relevant national and/or sectoral policies and circumstances on the baseline taking into account relevant guidance from the Board with regard to renewal of the crediting period at the time of requesting renewal of crediting period.

(b) The correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

In conclusion, the review of the PoA-DD and the subsequent follow-up interviews have provided Carbon Check with sufficient evidence to determine the programme of activity fulfilment of all the stated criteria. In our opinion, the CDM programme of activity meets all applicable UNFCCC requirements of the CDM for renewal of the PoA period.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader, Technical Expert (TA 3.1)	ER	Buragohain	Champok	CC IPL India	√	X	√	√
2.	Team Member	IR	Anand	Amit	CC IPL India	√	X	√	√
3.	Local Expert	ER	Ghimire	Narendra	CC IPL Nepal	X	X	√	X

B.2. Technical reviewer and approver of the validation report for renewal of PoA period

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	C.	Indumathi	CC IPL
2.	Approver	IR	Singh	Vikash Kumar	CC IPL

SECTION C. Means of validation

C.1. Desk/document review

>>The PoA-DD version 12 of 24/02/2022 and version 13 of 20/04/2022 /01/, in particular the applicability of the methodology, the baseline determination, the monitoring plan were assessed as part of the validation. Appendix 3 lists the documentation that was reviewed during the validation.

C.2. On-site inspection

Duration of on-site inspection: DD/MM/YYYY to DD/MM/YYYY				
No.	Activity performed on-site	Site location	Date	Team member
1.				

Site visit has not been performed for the validation of the renewal of PoA period, in accordance with CDM validation and verification standard for programmes of activities, version 03.0, paragraph 30 /06/. Representatives from CME have been interviewed via zoom meeting and publicly available authentic sources were reviewed for cross checking information necessary for validation of the PoA.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Dhakal	Nawa Raj	Deputy Executive Director, AEPC	08/03/2022	Status of the programme and any modifications with respect to the registered PoA, The lifetime of the project activity; National and local policies and changes; Monitoring plan and changes.	Champak Buragohain
2.	Bhatta	Parbata	Assistant Director, AEPC	08/03/2022		
3.	Shrestha	Shreejan Ram	Environmental Safeguard Expert, AEPC	08/03/2022	PoA-DD preparation, Applicability to the latest methodology; Emission Factors and their updates; Baseline of the project and its updates.	
4.	Chhetri	Mukti Bikram	Finance Expert, AEPC	08/03/2022		
5.	KC	Pratima	Senior Officer, AEPC	08/03/2022		

C.4. Sampling approach

>> Sampling approach to be followed at PoA level as per registered PoA-DD. Sampling will be conducted using stratified random sampling techniques as per CDM guidelines "Sampling and surveys for CDM project activities and programmes of activities" /9/ the ICS shall be stratified by region, ICS type and age. When biennial inspection is chosen a 95/10 confidence precision shall be achieved and in case of annual inspection 90/10 confidence precision shall be achieved for the sampled parameters.

The minimum sample size is calculated using the procedure outlined in para 24 of Appendix 1 of the guideline 'Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities'.

The sampling approach is as per the provisions of applied methodology AMS-II.G, version 12.

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

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Programme of activities			
Compliance with PoA-DD form			
Programme of activities period		1	
Coordinating/managing entity and the project participants			
Post-registration changes			
Generic component project activities			
Application and selection of methodologies and standardized baselines		1	
Validity of original baseline or its update		1	
Estimated emission reductions or net anthropogenic removals		1	
Validity of monitoring plan		1	
Eligibility criteria for inclusion of CPAs			

Others (As per EB 113 decision)			1
Total	0	5	1

SECTION D. Validation findings

D.1. Programme of activities

D.1.1. Compliance with PoA-DD form

Means of validation	The PoA-DD was cross-checked with the latest PoA-DD template available at UNFCCC and with the instructions for filling out.
Findings	N/A
Conclusion	CCIPL confirms that the updated PoA-DD is in compliance with the latest version of the PoA-DD form (version 10.0) and the instructions therein for filling out the PoA-DD form. Carbon Check also confirms that the CME has updated the relevant sections of the PoA-DD in accordance with the relevant requirements in the Project Standard for PoA, version 03. Carbon Check further confirms that the information transferred to the updated version of the PoA-DD is materially the same as that in the registered PoA-DD /2/.

D.1.2. Programme of activities period

Means of validation	The PoA period is 7 years renewable. This is the second PoA period and its start date is 27/03/2022, which is day immediately after the expiration of current PoA period (i.e. 27/03/2015 to 26/03/2022).
Findings	CAR 01 was raised as the updated PoA-DD does not mention the second crediting period duration which has been corrected in the updated PoA-DD and hence CAR is closed.
Conclusion	CCIPL confirms that the second PoA period for the PoA commences on the day after the expiration of the current PoA duration from 27/03/2022 which is as per paragraph 388 (a) (v) of VVS for PoA version 03 /6/.

D.1.3. Coordinating/managing entity and the project participants

Means of validation	Cross checking the CME and project participants name from the list of project participants and CME of the PoA from the view page at UNFCCC website and latest MoC statement. Carbon Check also reviewed the letter of approval (Ref:1769) dated: 09/01/2013 issued from the DNA of Nepal authorizing Alternative Energy Promotion Center (AEPC) as CME and letter of approval from NDA of Sweden (Ref: 2015-8923, dated 10/11/2015) authorizing Asian Development Bank, as trustee of the future carbon fund as project participant to the programme. The latest MoC dated: 17/08/2021 to confirm the name of CME to be correct and valid.
Findings	N/A
Conclusion	CCIPL confirms that the CME and project participants of the PoA is listed in the updated PoA-DD and this information is consistent with the information provided in the latest MoC and hence meets paragraph 382 and 388 (a) (vi) of VVS PoA version 03 /6/.

D.1.4. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Corrections	N	NA	NA
Inclusion of monitoring plan	N	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	N	NA	NA
Changes to the programme design	N	NA	NA
Addition of CPA inclusion template	N	NA	NA
Changes specific to afforestation and reforestation activities	N	NA	NA
Change of coordinating/managing entity	N	NA	NA

D.2. Generic component project activities

D.2.1. Application and selection of methodologies and standardized baselines

Means of validation	The CME has applied the methodology AMS-II.G Version 12 /5/. This version of the methodologies is the latest version and currently valid for the submission of the PoA. The PoA meets the criteria defined in the baseline methodology as described below:	
	Criteria	DOE assessment
	This methodology comprises efficiency improvements in thermal applications of non- renewable biomass. Examples of applicable technologies and measures include the introduction of high efficiency biomass fired project devices (cookstoves or ovens or dryers) to replace the existing devices and/or energy efficiency improvements in existing biomass fired cookstoves or ovens or dryers.	The programme will use cookstoves which are higher than 20% and replaces conventional stoves. The programme intends different improved metallic stoves as provided in Appendix 7 of the PoA-DD.Hence, meets the methodology requirement.
	In the case of cookstoves, the methodology is applicable to the introduction of single pot or multi pot portable or in-situ cookstoves with rated efficiency of at least 20 per cent. Refer to the requirements indicated in “Data / Parameter table 14” which details the options for testing and certification as well as supporting documentation (e.g. certificate issued by third party or test results) that needs to be presented to the validating DOE	The programme cookstoves are efficient stoves with efficiency ranging from 20.63% as per test certificates /11/ which replaces conventional stoves. Hence, meets the methodology requirement.
	The aggregate energy savings of a single project activity shall not exceed the equivalent of 60 GWh per year or 180 GWh thermal per year in fuel input	With highest ICS efficiency of 27% which replaces baseline cookstove with efficiency 10% and firewood usage of 3.07 ton per year by baseline stove, with 21,540 ICS (maximum number) in each CPA, the project can consider save energy equivalent of 179.583 GWh.
	Non-renewable biomass has been used in the project region since 31 December 1989, using survey methods or referring to published literature, official reports or statistics	As per registered PoA-DD the Non-renewable biomass has been used in the project region since 31 December 1989. Hence, meets the applicability condition.
	For cases where the biomass is sourced from renewable sources, the project participants should use a corresponding Type I methodology	Biomass is not sourced from renewable sources and hence no Type I methodology is used.
	The CDM-PDD or CDM-PoA-DD/CPA-DD shall explain the proposed method for distribution of project devices including the method to avoid double counting of emission reductions such as unique identifications of product and end-user locations (e.g. programme logo).	The PoA-DD includes procedure to avoid double counting of emission reductions. As part of that, <ul style="list-style-type: none"> ▪ All ICS disseminated under the PoA will be provided with unique identification number (CDM Code) which will ensure the avoidance of double counting. ▪ ICS CDM codes will be also cross-checked and verified through internal monitoring of

		<p>ICS by bioenergy section. All ICS implemented under the PoA will be listed in the database. The database system is designed with the principle of not accepting the same unique number twice.</p> <ul style="list-style-type: none"> ▪ The unique number will be verified before the disbursement of subsidy which will also prevent double subsidy to the same household. ▪ Double counting check will also be done during the annual ICS users' survey conducted by an independent third party. ▪ A double counting check will be conducted by checking the UNFCCC database, to compare this PoA with the CPAs of other PoAs or other registered CDM project. Similarly, the database of other carbon schemes like Gold standard and VCS will also be checked to confirm that the CPA of the proposed PoA is not a part of CPAs of other PoAs or other registered CDM project.
	<p>The CDM-PDD or CDM-PoA-DD/CPA-DD shall also explain how the proposed procedures prevent double counting of emission reductions, for example to avoid that project stove manufacturers, wholesale providers or others claim credit for emission reductions from the project devices</p>	<p>The procedure to prevent double counting of emission reductions are stated above and well defined in the PoA-DD.</p>
<p>Findings</p>	<p>CAR 02 was raised as exact text of applied methodology was not used and efficiency details of programme ICS were not provided. The same is found correctly incorporated in the revised PoA-DD and hence, CAR is closed.</p>	
<p>Conclusion</p>	<p>Carbon Check, hereby confirms that the selected baseline and monitoring methodology has been previously approved by the CDM Executive Board, and is applicable to the Project, which complies with all the applicability conditions therein and the selected version is valid at the time of submission of the proposed PoA for renewal of crediting period. It is also confirmed that the methodology is correctly applied by comparing it with the actual text of the applicable version of the methodology and there is no deviation from the selected methodology. Hence, the same is in compliance with paragraph 383 of VVS for PoAs, version 03 /6/.</p>	

D.2.2. Validity of original baseline or its update

<p>Means of validation</p>	<p>The CME has included the assessment of the validity of the original baseline as per the tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1 /8/, which has been concluded to be still valid and applicable for the PoA.</p> <p>The tool consists of two steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second step provides an approach to update the baseline in case that the current baseline is not valid anymore for the next crediting period.</p> <p>Step 1: Assess the validity of the current baseline for the next crediting period</p>
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Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies

There is no mandatory legal requirement for installation of improved cooking stoves in households of Nepal. The policies relevant to the project are ‘the Rural Energy Policy’, ‘the Renewable (Rural) Energy Subsidy Policy’ and ‘the Renewable (Rural) Energy Subsidy Delivery Mechanism’. The Renewable (Rural) Energy Subsidy Policy 2016 has made provisions of financial subsidy support for the installation of the household ICS. The above policies only provide the incentives for the installation of ICS and do not provide any obligations or enforced targets, nor do they ban the use of fuel wood for cooking. Moreover, the project is not a government sponsored project and does not claim any incentive. Therefore, relevant policies does not impact the original baseline.

Step 1.2: Assess the impact of circumstances

The project involves household ICS replacing firewood based cooking system. In the absence of the project, firewood would have been used for cooking purpose. There are no new national/sectoral policies/legislation/circumstance that could affect the baseline scenario during the renewal of the crediting period. There is no change observed in this regard and it can be concluded that the conditions used to determine the baseline emissions in the previous crediting period are still valid.

Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested.

The baseline scenario identified at the validation of the project activity was the continuation of the current practice without any investment. The continuation of the current practice does not need any further investment. The baseline scenario identified during validation confirmed that NRB is used in Nepal since 31 December 1989. Latest fNRB assessment by DNA of Nepal confirms the NRB use in the country. These scenarios justifies that the baseline scenario is not impacted during the renewal of crediting period and continuation of pre-defined baseline scenario is the most likely scenario for the crediting period for which renewal is requested.

Step 1.4: Assessment of the validity of the data and parameter

“Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity”.

Following data parameters are updated from registered PDD:

Data/Parameter	Value in registered PoA-DD	Value in updated PoA-PDD	Assessment
Emission factor for the substitution of non-renewable woody biomass by similar consumers ($EF_{projected_fossilfuel}$)	81.6 tCO ₂ /TJ	64.4 tCO ₂ /TJ	The updated value is the default value provided in the applied methodology AMS-II.G version 12. Hence, correctly applied for the second crediting period.
Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass, f_{NRBy} (%)	86%	91.44%	Calculated using the Tool 30, Methodological Tool Calculation of the fraction of non-renewable biomass, version 03.0 which has been confirmed by Ministry of Forests and Environment, Nepal acting as DNA to UNFCCC /12/.
Net calorific value of the non-	0.015 TJ/Tonne	0.0156 TJ/Tonne	The updated value is the default value provided in

	renewable woody biomass that is substituted (NCV _{biomass})			the applied methodology AMS-II.G version 12. Hence, correctly applied for the second crediting period.
<p>Considering the guidance provided under this step, calculation baseline emissions are updated for the next crediting period as per step 2.</p>				
<p>Step 2: Update the current baseline and the data and parameters Since, the existing baseline scenario is still valid, this step is not applicable.</p>				
<p>Finally, it is concluded that the original baseline scenario is valid and assessment is complete as per "Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1 /8/.</p>				
Findings	<p>CAR 03 was raised as PoA-DD was not transparent in all steps while assessing validity of original baseline using tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1 which PP has updated transparently and hence CAR is closed.</p>			
Conclusion	<p>CC IPL concludes that the validity of original baseline is justified in the updated PoA-DD as per paragraph 380 of CDM project standard for PoA version 3 /6/.</p>			

D.2.3. Estimated emission reductions or net anthropogenic removals

Means of validation	<p>The emission reductions for the project activity is estimated as per equation 1 of AMS-II.G version 12 as follows:</p> $ER_y = \sum_i \sum_j ER_{y,i,j} - LE_y$ <p>Where:</p> <ul style="list-style-type: none"> <i>i</i> = Indices for the situation where more than one type of project device is introduced to replace the pre-project devices <i>j</i> = Indices for the situation where there is more than one batch of project device <i>ER_y</i> = Emission reductions during year <i>y</i> in t CO_{2e} <i>ER_{y,i,j}</i> = Emission reductions by project device of type <i>i</i> and batch <i>j</i> during year <i>y</i> in t CO_{2e} <i>LE_y</i> = Leakage emissions in the year <i>y</i> <hr/> $ER_{y,i,j} = B_{y,savings,i,j} \times N_{o,i,j} \times n_{y,i,j} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil\ fuel}$ <p>Where:</p> <table border="1" data-bbox="541 1682 1394 2004"> <tr> <td><i>B_{y,savings,i,j}</i></td> <td>=</td> <td>Quantity of woody biomass that is saved per cookstove device of type <i>i</i> and batch <i>j</i> during year <i>y</i> (tonnes)</td> </tr> <tr> <td><i>f_{NRB,y}</i></td> <td>=</td> <td>Fraction of woody biomass that can be established as non-renewable biomass (fraction or %)</td> </tr> <tr> <td><i>NCV_{biomass}</i></td> <td>=</td> <td>Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne, based on the gross weight of the wood that is 'air-dried')</td> </tr> </table>				<i>B_{y,savings,i,j}</i>	=	Quantity of woody biomass that is saved per cookstove device of type <i>i</i> and batch <i>j</i> during year <i>y</i> (tonnes)	<i>f_{NRB,y}</i>	=	Fraction of woody biomass that can be established as non-renewable biomass (fraction or %)	<i>NCV_{biomass}</i>	=	Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne, based on the gross weight of the wood that is 'air-dried')
<i>B_{y,savings,i,j}</i>	=	Quantity of woody biomass that is saved per cookstove device of type <i>i</i> and batch <i>j</i> during year <i>y</i> (tonnes)											
<i>f_{NRB,y}</i>	=	Fraction of woody biomass that can be established as non-renewable biomass (fraction or %)											
<i>NCV_{biomass}</i>	=	Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne, based on the gross weight of the wood that is 'air-dried')											

	EF _{projected_fossil fuel}	=	Emission factor of fossil fuels projected to be used to substitute non-renewable woody biomass by similar consumers (tCO ₂ e/TJ).
	N _{o,i,j}	=	Number of project devices of type <i>i</i> and batch <i>j</i> commissioned (number)
	η _{y,i,j}	=	Proportion of commissioned project devices of type <i>i</i> and batch <i>j</i> ($\frac{1}{N_{o,i,j}}$) that remain operating in year <i>y</i> (fraction)
	μ _y	=	Adjustment to account for any continued use of pre-project devices during the year <i>y</i>
	<p>B_{y,savings} (Quantity of woody biomass that is saved) is determined using option 3 of the methodology as below:</p> $B_{y,savings,i,j} = B_{old,i,j} \times \left(1 - \frac{\eta_{old,i,j}}{\eta_{new,i,j}}\right)$ <p>Annual quantity of woody biomass that would have been used in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project device type <i>i</i> and batch <i>j</i> (B_{old,i,j}) is determined ex-ante to be 3.07 ton/household/year as per baseline survey considered during registration of the project activity. Efficiency of pre-project device (η_{old,i,j}) is taken 10% default value as per applied methodology /04/. Efficiency of project device (η_{new,i,j}) is taken 27% (the highest efficiency among the proposed ICS type on conservative side) as per test report /11/.</p> <p>Number of project devices of type <i>i</i> and batch <i>j</i> operating during year <i>y</i> is 21,540 which is the maximum number of ICS that can be included in a CPA.</p> <p>Fraction of woody biomass that can be established as non-renewable biomass (f_{NRB}) is calculated following procedures outlined in the tool to calculate fraction of NRB referred in the methodology AMS-II.G, version 12. The resulted f_{NRB} is 91.44%. The f_{NRB} is endorsed by Ministry of Forest and Environment, Nepal dated 22/03/2022 which is calculated as per the tool and therefore, justifies the f_{NRB} value for the project activity /12/.</p> <p>Accordingly, Baseline emissions estimated to be 36,336 tCO₂/year. As per paragraph 41 of the methodology, B_{y,savings} is multiplied by a net to gross adjustment factor of 0.95 to account for leakage. Therefore, the net emission reduction is 34,519 tCO₂ per year.</p>		
Findings	CAR 04 was raised as inconsistency found for dermination of B _{old} and f _{NBR} as per latest tool, which CME corrected in the updated PoA-DD and hence CAR is closed.		
Conclusion	<p>CCIPL confirms, the PoA-DD correctly lists assumption and data used by the PP for estimating emission reduction including their references and sources. Source of data and assumptions are correctly quoted and interpreted in the PoA-DD.</p> <p>All values used in the PoA-DD are considered reasonable in the context of the proposed CDM PoA.</p> <p>The baseline methodology and corresponding tools have been correctly applied to calculate project, baseline and leakage emissions, and emission reductions.</p> <p>All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD.</p> <p>The validation team took cognizance paragraph 388 (a) (iv) of VVS for PoAs, version 03.0 /6/.</p>		

D.2.4. Validity of monitoring plan

Means of validation	The monitoring plan in the updated PoA-DD is consistent with the latest
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	<p>methodology, AMS-II.G Version 12. Validation team confirmed from the document review that the list of parameters including the means of monitoring is described in accordance with the applied methodology. Following are the parameters to be monitored:</p> <ol style="list-style-type: none"> a) Number of new devices distributed under the project activity identified by the type of devices and the date of commissioning & Data to unambiguously identify the recipient of the new devices distributed under the project activity (e.g. name, address, phone number). b) Proportion of commissioned project devices of type <i>i</i> and batch <i>j</i> that remain operating in year <i>y</i> –the parameter shall be monitored annually following sample survey as per the applied methodology. c) Efficiency of the device of each type <i>i</i> and batch <i>j</i> implemented as part of the project activity - A default schedule of linear decrease in efficiency up to the terminal efficiency assumed as 20 per cent shall be applied through the life span of the project device (As per paragraph 37 (a) of the methodology). d) Adjustment to account for any continued use of pre-project devices during the year <i>y</i> (μ_y)- the parameter shall be monitored annually following sample survey as per the applied methodology e) Life span- The technical life of project ICS as per manufacturer specification. The life span of each project device shall be monitored from date of commissioning which is to be also monitored. f) Date of commissioning of batch <i>j</i>- To establish the date of commissioning, the Project Participant may opt to group the devices in “batches” and the latest date of commissioning of a device within the batch shall be used as the date of commissioning for the entire batch which shall be monitored and recorded as in when the projects ICS are commissioned. g) Date of commissioning of project device <i>i</i> – date of commissioning of project devices shall be monitored and recorded as in when commissioned. h) Number of project devices distributed per household- Project developer shall record number of project ICS distributed to each household as in when distributed. <p>The monitoring plan is still same in consistent with the latest methodology and hence valid for the next crediting period. Carbon Check is of the opinion that monitoring plan is feasible within the project design.</p>
<p>Findings</p>	<p>CAR 05 was raised as monitoring details were found inconsistent in the PoA-DD which were corrected through out the PoA-DD in line with the requirements of the applied methodology and hence CAR is closed.</p>
<p>Conclusion</p>	<p>CC IPL confirms that the monitoring plan included in the updated PoA-DD is valid as per the applied methodology and conforms the registered PoA-DD.</p>

D.2.5. Eligibility criteria for inclusion of CPAs

<p>Means of validation</p>	<p>The managing entity employs clear and unambiguous criteria for the inclusion of the CPA. The eligibility criteria's have been stated are in line with the applicability of the applied methodology AMS-II.G version 12. Following has been included as eligibility criteria for CPAs to this PoA –</p>				
	<p>No.</p>	<p>Eligibility criterion – Category</p>	<p>Eligibility criterion – Required condition</p>	<p>Supporting evidence for inclusion</p>	<p>DOE assessment</p>
	<p>1</p>	<p>Geographical Boundary</p>	<p>All CPAs to be included in the PoA will be within the geographical boundary of Nepal.</p>	<p>CPA database & geographical coordinates of CPA</p>	<p>According to §122 (a), of the PS for PoAs, v3, the geographical boundary of each CPA, shall be consistent with the geographical boundary set in the PoA. The PoA boundary is set as</p>

				Nepal. Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard.
2	Double Counting	All CPAs included in this PoA will be uniquely identified	<ul style="list-style-type: none"> - Each ICS to be included in the CPA have unique number (CDM code) as mentioned in section B. These unique number (CDM code) will be used to prevent double counting of ICS in the PoA as well as other ICS projects. - A check in CDM website among other CDM projects and PoAs. 	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §122 (b) of the PS for PoAs, v3. Validation team based on review PoA-DD /1/ confirms that the eligibility criteria is defined in accordance with the project standard.
3	Technology	CPA will implement improved Rocket stoves and metallic cook stoves having minimum efficiency of 20%.	<ul style="list-style-type: none"> - CPA database (confirmation that the ICS implemented under each CPA meets the technical specification as outlined in section A.3 of the PoA DD) - Test reports by Renewable Energy Test Station (RETS). 	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements and applicability conditions prescribed by the methodology, as well as §122 (d) of the PS for PoAs, v3. Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard.
4	Level of service	The ICS installed under the CPAs will deliver better services in terms of reduction in indoor smoke and reduced firewood consumption through improved efficiency.	This criterion will be met by compliance with the eligibility criteria (c) under section B table 1 of the PoA-DD.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements and applicability conditions prescribed by the methodology. Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with

				the project standard.
5	Start date	Conditions that the start date of CPA will be after the PoA start date.	<ul style="list-style-type: none"> - Confirmation of start date of a CPA by CME. - Start date of PoA through PoA DD 	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §122 (e) of the PS for PoAs, v3. The start date of a CPA shall be after the PoA start date.</p> <p>Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard for PoA.</p>
6	Compliance with methodology	Each CPA complies with the applicability and other requirements outlined in AMS II G version 12.	Applicability requirements of the methodology are met by complying the eligibility criteria (c) under section B table 1 of the PoA-DD	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §122 (f) of the PS for PoAs, v3.</p> <p>All CPAs utilizing this generic CPA-DD shall apply and should comply with the methodology AMS-II.G, version 12. Validation team based on review of PoA-DD /1/ confirms that the eligibility criteria is defined in accordance with the project standard.</p>
7	Additionality	Energy saving from an individual unit of CPA will not exceed 5% (9 GWh thermal in this case) of small scale CDM threshold per year as per para 2 (c) of EB 68 annex 27.	CPA DD (demonstration that each type of ICS implemented under the CPA will have annual energy savings less than 9 GWh thermal).	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §122 (g) of the PS for PoAs, v3.</p> <p>All CPAs shall be additional to be included in the PoA provided they meet this eligibility criterion of the PoA. This is adequately prescribed in the PoA-DD. Validation team based on review of PoA-DD</p>

					/1/ confirms that the eligibility criteria is defined in accordance with the project standard.
8	Local stakeholder consultation/ Environmental impact analysis	PoA specific requirements related to undertake local stakeholder consultation and environmental impact analysis	Section E (Environmental impacts and Section F (Local stakeholder comments) of the PoA DD.		Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §122 (i) of the PS for PoAs, v3. Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard.
9	Diversion of ODA fund	Affirmation that public funding from annex 1 parties doesn't result in a diversion of official development assistance	Confirmation letter from CME for each CPA		Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §35 and §122 (j) in the PS for PoAs, v03. Validation team based on review of the PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard.
10	Target group	<ul style="list-style-type: none"> - Target group for implementation of ICS under the CPAs will be the households using traditional cooking stoves (TCS) in baseline. - Target group for implementation of Rocket ICS under the CPAs will be individual households located in high hills, hills and terai region of country. - Target group for implementation 	<ul style="list-style-type: none"> - ICS installation form filled up by the stove installer - CPA database and list of VDCs eligible for metallic ICS. 		Validation team confirms that this eligibility criterion shall ensure that all CPAs shall specify the target group for all eligible CPAs in order to confirm to the applied methodology, as well as the PoA stated policy, operational and management framework inline with the requirements of §122 (k) of the PS for PoAs, v3. Validation team based on review of PoA-DD /1/ confirms that the eligibility criterion is defined in accordance with the project standard.

		of metallic ICS) under the CPAs will be individual households located in high hills or hills .		
11	Sampling	All CPAs will comply with the conditions of sampling requirements in accordance with the approved Standard: Sampling and Surveys for CDM project activities and PoA.	This will be confirmed using criterion in Appendix 5 of PoA-DD	Validation team based on review of PoA-DD /1/ confirms that the eligibility criteria is defined in accordance with the project standard.
12	Threshold check	The aggregate annual energy savings from the ICS installed under a CPA would not exceed the limit of small scale threshold i.e. 180 GWh thermal in fuel input as per AMS II G version 12 para 4.	-PoA DD - Checking the CPA database that the ICS installation in each CPA is limited to 21,540 in accordance with section B.2 of generic part of the PoA DD.	Validation team confirms that the threshold criteria is defined correctly for all CPAs as per requirement of the applied methodology.
13	Debundling check	The CPA is not a debundled component of a large project activity.	CPA DD	Validation team based on review of PoA-DD /1/ confirms that the eligibility criteria is defined in accordance with the project standard.
14	Other requirements (as per methodology)	Demonstration of use of NRB	- The baseline report for ICS PoA conducted by an independent third party. - The use of NRB is verified by fraction of non-renewable biomass approved by the board (EB 108 annex 11) ¹ .	Validation team confirms the correctness of fNRB value used for the PoA which shall be applied to all CPAs during the crediting period.
15	Other requirements (as per	The values for fraction of non-renewable	▪ CPA DDs and corresponding	Validation team confirms the correctness of fNRB

¹ Using Tool 30, Methodological Tool calculation of the fraction of non-renewable biomass (version 03.0)

		methodology) Choice of values of parameters for fNRB and $B_{old,i,j}$ and monitoring approach for $B_{y,savings i,j}$.	biomass approved by Ministry of Forests and Environment, Nepal acting as DNA to UNFCCC has reassessed the value following the "Tool 30: Calculation of the fraction of non-renewable biomass version 03" and 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories for "Above-ground biomass growth rates for different ecological zones" and values of parameters B_{old} will be determined at PoA level. Similarly the monitoring approach for $B_{y,savings}$ will also be determined at PoA level.	PoA DD	value used for the PoA which shall be applied to all CPAs during the crediting period.
	16	Others	Signed agreement for ER right transfer	ER right transfer form included in the installation report.	Validation team based on review of PoA-DD /1/ confirms that the eligibility criteria is defined in accordance with the project standard.
Findings	N/A				
Conclusion	CC IPL confirms that the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA. The eligibility criteria will be checked at each CPA inclusion by the CME and shall be confirmed by the DOE to be fulfilled during CPA inclusion. The eligibility criterias are consistent with the first crediting period. Furthermore, the validation team confirms that eligibility criteria for the inclusion of CPAs in the PoA have covered as per the requirements of paragraph 122 of PS for PoAs, version 03 /6/.				

SECTION E. Internal quality control

>>The final validation report has undergone a technical review and quality review before being submitted to the project participant(s) and UNFCCC Executive Board. A technical reviewer

qualified in accordance with CCIPL's qualification scheme for CDM validation and verification has performed the technical review.

SECTION F. Validation opinion

>> Alternative Energy Promotion Centre (AEPC), has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA "Promotion of the Improved Cooking Stove (ICS) – Nepal".

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The programme of activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the updated PoA-DD. In the opinion of the validation team, the programme of activity meets all relevant UNFCCC, CDM criteria and all relevant host country criteria.

The review of the PoA-DD /01/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline and/or its update through an assessment. The PoA-DD /01/ correctly applies the consolidated methodology AMS-II.G, version 12. The monitoring arrangements described in the monitoring plan are feasible within the PoA-DD, and it is validation team's opinion that the CME/CPA Implementer are able to implement the monitoring plan.


During the course of validation five (05) CARs were identified on initially submitted revised PoA-DD /01/. All the CARs have been resolved by project proponent. One (01) FAR is raised as per EB 113 decision,

In summary, it is validation team's opinion that the CDM programme of activity "Promotion of the Improved Cooking Stove (ICS) – Nepal" (UNFCCC Reference number 9902) meets all relevant UNFCCC requirements for the renewal of the PoA period. Hence CCIPL requests the renewal of CDM programme of activities period.

Appendix 1. Abbreviations

Abbreviations	Full texts
AEPC	Alternative Energy Promotion Centre
BE	Baseline Emissions
BM	Build Margin emission factor
CAR	Corrective Action Request
CC IPL	Carbon Check India Pvt. Ltd.
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane
CL	Clarification Request
CME	Coordinating and managing entity
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CPA	Component project activity
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GW	Giga Watt
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoC	Modalities of Communication
MoV	Means of Verification
MR	Monitoring Report
MW	Mega Watt
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PoA	Program of Activities
PS	Project Standard
PP(s)	Project Participant(s)
Ref.	Document Reference
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon
CHECK

Carbon Check (India) Private Ltd.

Mr. Champok Buragohain

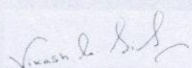
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

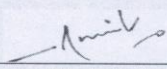
Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input checked="" type="checkbox"/>
TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

Date of Approval
24/12/2021

Valid Till
23/12/2022

Revision History of the Document

01/03/2020 ²	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision
24/12/2021	Annual Revision

¹.India
² Please refer to previous version of competency certificates for the revision history

CARBON CHECK (INDIA) PRIVATE LIMITED
 CIN: U74930DL2012PTC232495
 Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
 Corporate off: Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector-32 Noida, Uttar Pradesh
 Tel: +91 120 4373114 | URL: www.carboncheck.co.in | e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Amit Anand

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input checked="" type="checkbox"/>

Mr. Vikash Kumar Singh
Compliance Officer

Date of Approval
24/12/2021

Valid Till
23/12/2022

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24/12/2020	Annual Revision
24/12/2021	Annual Revision

¹ India and South Africa

² Please refer to previous version of competency certificates for the revision history.

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Carbon Check (India) Private Ltd.

Ms. Indumathi. C

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Assessor¹

In the following Technical Areas:

TA 1.1 TA 4.1 TA 9.1 TA 13.1
 TA 1.2 TA 5.1 TA 9.2 TA 13.2
 TA 3.1 TA 5.2 TA 10.1 TA 14.1

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2021

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¹ India.

² Please refer to previous version of competency certificates for the revision history.

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	AEPC	Updated PoA-DD for the PoA 'Promotion of the Improved Cooking Stove (ICS) – Nepal' in Nepal	Version 12 of 24/02/2022, version 13 of 20/04/2022	CME
2	AEPC	Registered PoA DD for the PoA 'Promotion of the Improved Cooking Stove (ICS) – Nepal' in Nepal	Version 11 of 03/05/2018	CME
3	TUV Sud	Validation report for the PoA 'Promotion of the Improved Cooking Stove (ICS) – Nepal' in Nepal	Report no. 00026PT dated 01/03/2015	CME
4	UNFCCC	UNFCCC webpage: PoA 9902 : Promotion of the Improved Cooking Stove (ICS) – Nepal	https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/RINY1D5VQT8SBMKXEG_LU049C62H7AZ/view	Others
5	UNFCCC	AMS-II.G: Energy efficiency measures in thermal applications of non-renewable biomass	Version 12	Others
6	UNFCCC	CDM Validation and verification standard for PoA	Version 03 of 09/09/2021	Others
7	UNFCCC	CDM Project Standard for PoA	Version 03 of 09/09/2021	Others
8	UNFCCC	Methodological tool 'Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period'	Version 03.0.1- EB 66 Annex 47	Others
9	UNFCCC	Guidelines for sampling and surveys for CDM project activities and programmes of activities	Version 04	Others
10	UNFCCC	Standard 'sampling and surveys for CDM project activities and programmes of activities'	Version 09	Others
11	Renewable Energy Test Station, Nepal	Test certificates of programme ICS		CME
12	Ministry of Forests and Environment, Nepal	Fraction of NRB of the host country (Nepal)	Letter dated 22/03/2022	CME
13	UNFCCC	CDM Project Cycle Procedure for PoA	Version 03 of 09/09/2021	Others
14	AEPC	The emission reduction worksheet		CME
15	AEPC	Risk acknowledgement and acceptance form	-	CME

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

Table 1. CL from this validation

CL ID	xx	Section no.	Date: DD/MM/YYYY
Description of CL			
Project participant response			Date: DD/MM/YYYY

Documentation provided by project participant	
DOE assessment	Date: DD/MM/YYYY

Table 2. CAR from this validation

CAR ID	01	Section no.	D.1.2	Date: 09/03/2022
Description of CAR				
<i>Section J of the updated PoA-DD does not mention the crediting period duration.</i>				
Project participant response				Date: 20/03/2022
<i>Section J of updated PoA-DD has revised and mentioned second crediting period duration</i>				
Documentation provided by project participant				
<i>Revised PoA-DD</i>				
DOE assessment				Date: 23/03/2022
Section J of the PoA-DD is corrected and crediting period duration is correctly mentioned for the second crediting period. Hence, CAR is closed.				

CAR ID	02	Section no.	D.2.1	Date: 09/03/2022
Description of CAR				
1. <i>The same text of applicability conditions as specified in the methodology is not provided in the updated PoA-DD</i>				
2. <i>CME is requested to provide test certificate of proposed metallic stove under the PoA.</i>				
Project participant response				Date: 20/03/2022
1. <i>In the methodology section same text of applicability conditions are incorporates as specified in the methodology.</i>				
2. <i>The sample test certificate of the ICS technology included in PoA-DD is attached with this response. Please see supporting document SD#1(SD_2 List of Test Certificates)</i>				
Documentation provided by project participant				
<i>-Revised PoA-DD (Actual file name here)</i>				
<i>-Test certificates of ICS (SD_2 List of Test Certificates)</i>				
DOE assessment				Date: 23/03/2022
The exact text of the applicability conditions of the applied methodology is stated and justified in the updated PoA-DD also the test certificates of programme ICS are submitted. The efficiency of ICS are higher than 20% and hence meets the methodology requirement. Hence, CAR is closed.				

CAR ID	03	Section no.	D.2.2	Date: 09/03/2022
Description of CAR				
<i>CME has not provided the validity of original baseline as per the tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1.</i>				
Project participant response				Date: 20/03/2022
<i>The baseline scenario is updated in ICS PoA PDD version 12 in-line with the tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1. Please see section 1.5 of revised PoA-DD in ICS PoA PDD version 12,</i>				
Documentation provided by project participant				
<i>Updated PoA-DD</i>				
DOE assessment				Date: 23/03/2022
The updated PoA-DD transparently describes all steps while assessing validity of original baseline using tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1. Hence CAR is closed.				

CAR ID	04	Section no.	D.2.3	Date: 09/03/2022
Description of CAR				

<ol style="list-style-type: none"> 1. The estimation of ex-ante baseline emissions, CME in section I.6.1 of the PoA-DD stated option 1 to determine B_{old} which is inconsistent with registered PoA-DD. 2. The f_{NRB} for the PoA is stated as 86% in section I.6.1 which is expired as per UNFCCC page. The latest methodology refers 'calculation of the fraction of non-renewable biomass' which is not referred and discussed. 	
Project participant response	Date: 20/03/2022
<ol style="list-style-type: none"> 1. The correction has been made accordingly in line with the applied methodology and registered PoA-DD. Please check section I.6.1 of the revised PoA-DD. 2. The f_{NRB} has been re-assessed following the "Tool 30: Calculation of the fraction of non-renewable biomass version 03". This has been calculated by Ministry of Forests and Environment (MoFE) of Nepal and endorsed it. Same has been discussed in section I.6.1 of the revised PoA-DD. Also, see SD#2C_Revised f_{NRB}. for the endorsement letter from MoFE. 	
Documentation provided by project participant	
<ul style="list-style-type: none"> - Revised PoA-DD - Endorsement Letter from MoFE for fraction of non-renewable biomass (SD#2_B_Revised f_{NRB}) 	
DOE assessment	Date: 23/03/2022
<p>The ex-ante baseline emissions calculations are correctly shown as per the applied methodology and in consistent with the registered PoA-DD. Also, the f_{NRB} is calculated using tool 30 referred by the applied methodology and approved by host country DNA. Hence, details are found correct and CAR is closed.</p>	

CAR ID	05	Section no.	D.2.4	Date: 09/03/2022
Description of CAR				
<ol style="list-style-type: none"> 1. CME is requested to clarify the validity of $B_{old,i,j}$ value during the second CP of the PoA. 2. The monitoring details given in section I.7 is not consistent with the parameters provided in I.7.1 of the PoA-DD 				
Project participant response				Date: 20/03/2022
<ol style="list-style-type: none"> 1. The baseline scenario has been re-assessed in-line with the tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1. Please see section I.5 of the revised PoA-DD. Accordingly, value for the $B_{old,i,j}$ has been updated conservatively in corresponding sections and used for the ex-ante ER calculation for the PoA for second period. Please see revised PoA-DD for clarity on the validity of $B_{old,i,j}$. 2. The monitoring details are revised in accordance with the requirements and the applicable monitoring parameters for the PoA aligning with AMS II.G Ver.12. Please see section I.7.1 of the revised PoA-DD. 				
Documentation provided by project participant				
Updated PoA-DD				
DOE assessment				Date: 23/03/2022
<p>CME considered the same $B_{old,i,j}$ value as in the registered PoA-DD. CME accessed latest available data for $B_{old,i,j}$ which is 5.04 tonne/HH/year and hence conservatively the existing value 3.07 tonne/HH/year has been considered for the second CP. The monitoring details are corrected as per requirements of the latest version of the methodology. Since, the corrections are found in line, CAR is closed.</p>				

CAR ID	06	Section no.	D.1.4	Date: 09/03/2022
Description of CAR				
<ol style="list-style-type: none"> 1. It is noted during off-site interview with CME, the PoA intends to include new type of metallic ICS in addition to existing metallic ICS. Also mud ICS considered in the PoA is decided to discard from the PoA. Therefore, CME is requested to calrify and explain the changed in conformity to clause 9.3.5 CDM project standard for PoA, version 3.0. 				
Project participant response				Date: 20/03/2022
<p>As mud ICS technology are being replaced by the Rocket cooking stoves, which is portable, easy to operate and efficient technology. This intrusion of new technology will not change additionality criteria set in the ICS PoA DD in first crediting period. The project boundary will not be change as it will be executed within the boundary of Nepal, The project will remain as a small scale cdm projects. Further this will not change any eligibility criteria for inclusion of CPAs in the PoA. Hence, there will not any change in conformity to clause 9.3.5 CDM project standard for PoA, version 3.0.</p>				
Documentation provided by project participant				
Updated PoA-DD				

DOE assessment	Date: 23/03/2022
<p>The change in the project design reported does not impact the following:</p> <ul style="list-style-type: none"> • The applicability and application of the applied methodology • Compliance of the monitoring plan with the applied methodology • The level of accuracy and completeness in the monitoring • The additionality of the project activity • The scale of the project activity • The eligibility criteria for inclusion of CPA in the PoA <p>The same is explained in the revised PoA-DD, Appendix 7. So, the project fulfils the requirement of paragraph 279 of VVS for PoA version 3.0 and project standard for PoA para 241. Hence, the validation team accepts the changes reported in the revised PoA-DD. CAR is closed.</p>	

Table 3. FAR from this validation

FAR ID	1	Section no.		Date: 09/03/2022
Description of FAR				
<p><i>The coordinating/managing entities shall refer EB 113 and:</i></p> <ol style="list-style-type: none"> <i>i. Apply any GWP values that may be adopted by the CMP for that period in their monitoring reports for any emission reductions achieved on or after 1 January 2021; and</i> <i>ii. Update their project or programme design documents in accordance with any requirements of the CMP guidance.</i> 				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	7 January 2021	Revision to: <ul style="list-style-type: none"> Remove the row of “Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next programme of activities period” from cover page and related instructions; Make editorial improvements.
02.0	31 May 2019	Revision to: <ul style="list-style-type: none"> Ensure consistency with version 02.0 of the “CDM validation and verification standard for programmes of activities” (CDM-EB93-A08-STAN) and version 02.0 of the “CDM project cycle procedure for programmes of activities” (CDM-EB93-A09-PROC); Make editorial improvements.
01.0	29 December 2017	Initial publication.

Decision Class: Regulatory

Document Type: Form

Business Function: Renewal of crediting period

Keywords: crediting period, programme of activities, validation report