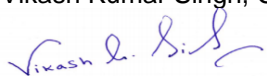




**Validation report form for renewal of CDM programme of activities period
(Version 02.0)**

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)	Distribution of fuel-efficient improved cooking stoves in Nigeria UNFCCC reference number: 6283
Number and duration of the next period	Number: Second renewal period Duration: 07/11/2019 to 06/11/2026 (including both the days)
Version number of the validation report	03
Completion date of the validation report	09/07/2020
Version number of PoA-DD to which this report applies	15
Coordinating/managing entity (CME)	C-Quest Capital LLC
Host Parties	Nigeria
Applied methodologies and standardized baselines	AMS II.G, version 11, Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass
Mandatory sectoral scopes	3
Conditional sectoral scopes, if applicable	Not applicable
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next programme of activities period	Not applicable
Name and UNFCCC reference number of the DOE	E-0052: Carbon Check (India) Private Ltd.
Name, position and signature of the approver of the validation report	Vikash Kumar Singh, Compliance Officer 

SECTION A. Executive summary

>>

The CME, C-Quest Capital LLC, has appointed the DOE, Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the Renewal of the PoA period for the PoA “Distribution of fuel-efficient improved cooking stoves in Nigeria” /B02/.

The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and the subsequent decisions by the CDM Executive Board. The independent Validation by the DOE is required on the PoA-DD /01/ to confirm the post registration changes. This report summarises the post registration changes of the project with respect to requirements of CDM VVS for PoAs (version 02.0) /B01-1/. This report contains the findings and resolutions from the validation and a validation opinion.

Scope:

The scope of the validation is defined as an independent and objective review of the revised PoA-DD /01/, the baseline, monitoring plan and other relevant documents. The information in these documents is reviewed against the CDM VVS for PoAs (version 02) /B01-1/, CDM PCP for PoAs (version 02) /B01-3/ and CDM PS for PoAs (version 02) /B01-2/

The report is based on the assessment of the PoA-DD /01/, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

Purpose, general description and location:

The PoA helps in reducing the emission of greenhouse gases by distribution of the fuel-efficient cook stoves in individual households of Nigeria. The fuel-efficient cook stoves are replacing the non-efficient wood stoves that were being used in the baseline scenario.

Validation methodology and process

The validation has been performed as described in the CDM VVS for PoAs (version 02.0) /B01-1/ and constitutes the following steps:

- Review of the approved revised PoA-DD /B02/
- Review of the revised PoA-DD /01/
- Desk review of relevant documents;
- Interview with representatives of the CME

Conclusion:

The review of the PoA-DD /02/ 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 for 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			
						Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader / Validator / Technical Expert	IR	Agarwalla	Sanjay Kumar	CC IPL	X	NA	X	X
2.	Validator	IR	Chaudhari	Tushar	CC IPL	X	NA	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	Anand	Amit	CC IPL
2.	Approver	IR	Singh	Vikash Kumar	CC IPL

SECTION C. Means of validation**C.1. Desk/document review**

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The validation was performed primarily based on the review of the revised PoA-DD /01/ /02/ and the supporting documentation. Documents reviewed or referenced during the validation are listed in Appendix 3 below.

C.2. On-site inspection

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No on-site visit was conducted. Validation team has checked the site visit requirements mentioned in the CDM VVS for PoAs, version 02 /B01-1/ and concluded to not conduct a site visit for the validation. Desk review of the submitted revised PoA-DD (version 12, dated 28/02/2020) /01/ and supportive evidences was done by the validation team. Validation team conducted remote interviews with the CME representatives on different topics as mentioned in section C.3 below. Also there is no pre-project information that is relevant to the requirements for renewal of the PoA period and may not be traceable after the renewal.

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

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Goswami	Tridip	C-Quest	06/03/2020	Discussion on	Sanjay Kumar

			Capital LLC		the revised PoA-DD and the proposed PRC and RCP including f_{NRB} and B_{old} calculation	Agarwalla Tushar Chaudhari
2.	Verma	Pooja	C-Quest Capital LLC	06/03/2020	Discussion on the revised PoA-DD and the proposed PRC and RCP including f_{NRB} and B_{old} calculation	Sanjay Kumar Agarwalla Tushar Chaudhari

C.4. Sampling approach

>>

Not applicable

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	-	-	-
Coordinating/managing entity and the project participants	01	-	-
Post-registration changes	03	01	-
Generic component project activities	-	-	-
Application and selection of methodologies and standardized baselines	-	02	-
Validity of original baseline or its update	-	01	-
Estimated emission reductions or net anthropogenic removals	-	-	-
Validity of monitoring plan	-	-	-
Eligibility criteria for inclusion of CPAs	-	-	-
Others (please specify) – UNFCCC I & R query	02	-	-
Total	06	04	-

SECTION D. Validation findings

D.1. Programme of activities

D.1.1. Compliance with PoA-DD form

Means of validation	DR
Findings	CAR 01 had been raised and closed successfully. Please refer to Appendix 4 for further details.
Conclusion	<p>CC IPL confirms the following:</p> <ul style="list-style-type: none"> The compliance of the revised PoA-DD /02/ (both in track-change and clean versions) with the valid version of the applicable PoA-DD form, version 09.0 including the instructions for completion of the form. This complies to the requirement of §284 of PS for PoAs, version 02 /01-2/ and §390 (a) (i) of VVS for PoAs (version 02.0) /B01-1/. CME has used the latest version of the CDM-PoA-DD form and assessment team confirms that the information transferred to the latest version of the PoA-DD /02/ is materially the same as that in the latest revised and approved PoA-DD /B02/. This complies to the requirement of § 381 and §390 (a) (ii) of VVS for PoAs (version 02.0) /B01-1/.

	The validation team confirms that the requirements of the CDM-PoA-DD FORM /B04/ filling guidelines and VVS for PoAs (version 02.0) /B01-1/ have been appropriately met.
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D.1.2. Programme of activities period

Means of validation	DR
Findings	-
Conclusion	As verified from the PoA-DD /02/, the start date of 2 nd PoA period proposed for this PoA is 07/11/2019 with the length of 7 years i.e. from 07/11/2019 to 06/11/2026. The 2 nd PoA period for the PoA commences on the day immediately after the expiration of the 1 st PoA period and hence is in compliance with § 390 (a) (v) of VVS for PoAs, version 02 /B01-1/.

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

Means of validation	DR, I		
Findings	CL 04 had been raised and closed successfully. Please refer to Appendix 4 for further details.		
Conclusion	The Validation team has checked the names of the coordinating/managing entity and the project participants in the updated PoA-DD along with the project page on UNFCCC website for the PoA 6283 and the latest MoC statement available on UNFCCC web site.		
	As per the updated PoA-DD /02/, the coordinating/managing entity, project participants and parties involved in the programme of activities are:		
	Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
	Nigeria (host)	C-Quest Capital LLC (private entity)	No
	Netherlands	C-Quest Capital LLC (private entity)	No
	Sweden	Swedish Energy Agency (private entity)	No
The PP (Swedish Energy Agency) was added as project participant through the CDM-MOC-FORM: Annex 2 dated 26/08/2013 (as confirmed on the project page of the PoA on UNFCCC web site) which was not available in the revised and approved PoA-DD /B02/.			
Hence the names of the coordinating/managing entity and the project participants in the updated PoA-DD /02/ are consistent with the names of the coordinating /managing entity and the project participants in the latest version of the MoC statement /B09/ in compliance with § 390 (a) (vi) of VVS for PoAs, version 02 /B01-1/.			

D.1.4. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Corrections	Y	02	01/07/2020
Inclusion of monitoring plan	NA	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	Y	02	01/07/2020
Changes to the programme design	Y	02	01/07/2020
Addition of CPA inclusion template	NA	NA	NA
Changes specific to afforestation and reforestation activities	NA	NA	NA

Change of coordinating/managing entity	NA	NA	NA
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D.2. Generic component project activities

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

Means of validation	DR, I														
Findings	CAR 02 and CAR 03 had been raised and closed successfully. Please refer to Appendix 4 for further details.														
Conclusion	<p>At the time of registration of the PoA-DD, the CME applied the methodology – AMS-II.G, version 03, “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass”. In the revised PoA-DD /02/, valid version of the of this methodology has been applied – AMS-II.G, version 11, “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass” /B03/.</p> <p>The applicability of the methodology is assessed below:</p> <table border="1"> <thead> <tr> <th>S/N</th><th>Applicability conditions of AMS II.G, version 11</th><th>CME justification</th><th>DOE assessment</th></tr> </thead> <tbody> <tr> <td>1</td><td>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.</td><td>Cookstoves distributed under the PoA shall have minimum efficiency of 20% as determined in accordance with ‘Data/parameter Table 12’ of the applied methodology</td><td>The defined minimum 20% efficiency of improved cookstove is same as defined in the earlier version of applied methodology AMS.II.G, version 03. Thus, there is no change in minimum efficiency requirement for ICS in the latest version of the applied methodology AMS.II.G (version 11) /B03/. The justification provided CME is acceptable and validation team confirms that project complies with the same.</td></tr> <tr> <td>2</td><td>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.</td><td> <p>As the generic CPA consists solely of microscale CDM units as defined by Tool 19, each ICS under the PoA shall not exceed the microscale threshold for energy saving per year.</p> <p>For CPAs which do not qualify as consisting of microscale CDM units as defined under paragraphs 12 (a) or (b) of methodological Tool 19, the aggregate energy savings in any</p> </td><td>In the generic CPA of the revised PoA-DD, it has been confirmed that the CPAs of the PoA will be either meet the micro scale threshold at the unit level rather than at the aggregate level of the CPA or else meet the threshold of small scale. The micro scale CPAs will satisfy paragraph 12 of</td></tr> </tbody> </table>			S/N	Applicability conditions of AMS II.G, version 11	CME justification	DOE assessment	1	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.	Cookstoves distributed under the PoA shall have minimum efficiency of 20% as determined in accordance with ‘Data/parameter Table 12’ of the applied methodology	The defined minimum 20% efficiency of improved cookstove is same as defined in the earlier version of applied methodology AMS.II.G, version 03. Thus, there is no change in minimum efficiency requirement for ICS in the latest version of the applied methodology AMS.II.G (version 11) /B03/. The justification provided CME is acceptable and validation team confirms that project complies with the same.	2	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.	<p>As the generic CPA consists solely of microscale CDM units as defined by Tool 19, each ICS under the PoA shall not exceed the microscale threshold for energy saving per year.</p> <p>For CPAs which do not qualify as consisting of microscale CDM units as defined under paragraphs 12 (a) or (b) of methodological Tool 19, the aggregate energy savings in any</p>	In the generic CPA of the revised PoA-DD, it has been confirmed that the CPAs of the PoA will be either meet the micro scale threshold at the unit level rather than at the aggregate level of the CPA or else meet the threshold of small scale. The micro scale CPAs will satisfy paragraph 12 of
S/N	Applicability conditions of AMS II.G, version 11	CME justification	DOE assessment												
1	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.	Cookstoves distributed under the PoA shall have minimum efficiency of 20% as determined in accordance with ‘Data/parameter Table 12’ of the applied methodology	The defined minimum 20% efficiency of improved cookstove is same as defined in the earlier version of applied methodology AMS.II.G, version 03. Thus, there is no change in minimum efficiency requirement for ICS in the latest version of the applied methodology AMS.II.G (version 11) /B03/. The justification provided CME is acceptable and validation team confirms that project complies with the same.												
2	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.	<p>As the generic CPA consists solely of microscale CDM units as defined by Tool 19, each ICS under the PoA shall not exceed the microscale threshold for energy saving per year.</p> <p>For CPAs which do not qualify as consisting of microscale CDM units as defined under paragraphs 12 (a) or (b) of methodological Tool 19, the aggregate energy savings in any</p>	In the generic CPA of the revised PoA-DD, it has been confirmed that the CPAs of the PoA will be either meet the micro scale threshold at the unit level rather than at the aggregate level of the CPA or else meet the threshold of small scale. The micro scale CPAs will satisfy paragraph 12 of												

			<p>year throughout the crediting period shall not exceed the small-scale threshold of 180 GWh_{th}/year.</p>	<p>Tool 19 and will consist of solely microscale CDM units. Paragraph 15 of the Tool 19 /B08/ states: <i>"If each of the units contained in the CPA satisfies the condition to qualify as a 'microscale CDM unit', then the coordinating/managing entity is not required to demonstrate compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA"</i>.</p> <p>For the CPAs which do not qualify under micro scale, the small scale threshold of energy savings of 180 GWh_{th}/year will be applicable. The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.</p>
	3	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 demonstrated above (in section I.2 of the PoA-DD), non-renewal biomass has been used in the project region since 31 st December 1989.	The defined non renewable biomass usage in the project region since since 31 st December 1989 is same as defined in the earlier AMS.II.G, version 03. Thus, there is no further assessment done for the criterion. The justification provided CME is acceptable and validation team confirms project complies with the same.
	4	For cases where the biomass is sourced from renewable sources, the project participants should use a	This criterion is not applicable.	This criterion is not applicable for the project.

		corresponding Type I methodology.		
	5	If the project device requires a specific fuel for this device (e.g. briquettes, pellets, woodchips), the consumption of the fuel should be monitored during the crediting period.	This criterion is not applicable.	This criterion is not applicable for the project.
	6	The 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).	Each ICS under the PoA shall be identified through an alpha numeric nomenclature to be fixed to the ICS or in form of registration card to be given to the beneficiary. Specific CPA DDs to include explanation on proposed method of distribution of project devices including method to avoid double counting.	Validation team has checked the revised PoA-DD and found that CME has defined eligibility criteria number 5 and 7 for double counting check to ensure compliance with this requirement of the applied methodology, AMS.II.G, version 11 /B03/. Further, CME has mentioned that sample of database shall be made available to the DOE at time of inclusion including the explanation on proposed method of distribution of ICS. The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.
	7	The 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.	The stove manufacturers, wholesale providers, end users shall sign an undertaking stating clearly that the CME or an entity authorized by it shall be the sole owner of the CERs arising from the project.	Validation team has checked the revised PoA-DD /02/ and found that CME has defined eligibility criteria number 17 regarding CER Ownership rights to ensure compliance with this requirement of the applied methodology, AMS.II.G, version 11 /B03/. The justification provided CME is acceptable and

			validation team confirms the project complies with this applicability criteria.
	<p>The PoA/Generic CPA part of the PoA-DD, fulfills all relevant criteria of the applied methodology AMS-II.G, version 11 /B03/. CME has used the valid version of the applied methodology. However, the applicability criteria will again be demonstrated at the CPA level where the actual project implementation or the distribution of improved cook stoves takes place. Hence the selected version of the applied methodology is appropriate for this PoA/Generic CPA part of the PoA-DD. Hence, the same is in compliance with §385 of VVS for PoAs, version 02 /B01-1/.</p>		

D.2.2. Validity of original baseline or its update

Means of validation	DR, I																	
Findings	CAR 04 had been raised and closed successfully. Please refer to Appendix 4 for further details.																	
Conclusion	<p>In accordance to § 382 of CDM VVS for PoAs, version 02.0 /B01-1/, the validation team reviewed the revised PoA-DD /02/ to assess the impact of new national and/or sectoral policies and circumstances existing at the time of requesting renewal of PoA period on the modalities to estimate baseline GHG emissions for the subsequent crediting period of each corresponding CPA, without reassessing the baseline scenario.</p> <p>The validation team assessed whether data and parameters used for determining the original baseline, that were determined ex-ante and not monitored during the PoA period and are still valid, and also whether the CME updated such data and parameters in accordance with the “Methodological tool 11: 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 /B09/.</p> <p>CME has applied and following the steps provided in the above stated Tool 11, for demonstration of validity of original baseline. CME has defined the data source for the emission factor, values in line with applied methodology /B03/.</p> <p>During the 1st PoA period, PoA was registered applying small scale methodology, AMS.II.G. version 03.0. During 2nd renewal period, PoA has applied valid latest version i.e. 11.0 of the same methodology AMS-II.G /B03/.</p> <p>Validation team confirms that data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid except the ex-ante parameter which are updated in accordance with applied methodology i.e. AMS.II.G, version 11.0.</p>																	
	<table><tr><th>Ex-ante Paramter</th><th>During 1st PoA Period</th><th>During 2nd PoA Period</th></tr><tr><td>B_{old,i,j} (tonnes/stove/year)</td><td>4.21 (Kaduna); 5.1129 (Kano)</td><td>5.72</td></tr><tr><td>f_{NRB} (fraction)</td><td>0.93</td><td>0.96</td></tr><tr><td>NCV_{biomass} (TJ/tonne_</td><td>0.015</td><td>0.0156</td></tr><tr><td>EF_{projected_fossilfuel} (tCO2/TJ)</td><td>81.6</td><td>73.2</td></tr></table>			Ex-ante Paramter	During 1 st PoA Period	During 2 nd PoA Period	B _{old,i,j} (tonnes/stove/year)	4.21 (Kaduna); 5.1129 (Kano)	5.72	f _{NRB} (fraction)	0.93	0.96	NCV _{biomass} (TJ/tonne_	0.015	0.0156	EF _{projected_fossilfuel} (tCO2/TJ)	81.6	73.2
	Ex-ante Paramter	During 1 st PoA Period	During 2 nd PoA Period															
	B _{old,i,j} (tonnes/stove/year)	4.21 (Kaduna); 5.1129 (Kano)	5.72															
	f _{NRB} (fraction)	0.93	0.96															
	NCV _{biomass} (TJ/tonne_	0.015	0.0156															
EF _{projected_fossilfuel} (tCO2/TJ)	81.6	73.2																
<p>Values for NCV_{biomass} and EF_{projected_fossilfuel} have been adopted from the latest version of the applied methodology, i.e. AMS-II.G, version 11 /B03/ and hence deemed acceptable.</p>																		
<p>CME opted to calculate the f_{NRB} value. The same is acceptable to validation team as it is line with § 49 option a) of the applied methodology AMS-II.G. version 11.0 /B03/ and the applicable methodological tool 30 /B11/. For calculation of the f_{NRB} value CME has sourced the data from C4 EcoSolutions report, an independent third party study /03/. Validation team has checked the C4 EcoSolutions report /03/ and found that all fuel wood consumption and charcoal consumption values have been derived by extrapolating the basic sourced values for the year 2016 from UN</p>																		

	<p>Statistics Division website for the host country, Nigeria /B13/. The derived fuel wood consumption values are in m³ which is converted to tonnes using FAO default conversion factor /B14/. The provided f_{NRB} calculation sheet /04/ and the sourced values have been checked including the calculation procedure in line with the Tool 30 /B11/ and found to be appropriate and deemed acceptable.</p> <p>CME has calculated the value of $B_{old,i,j}$ using publically available historical data for the host country, Nigeria. Validation team has checked the provided baseline fuelwood consumption calculation spread sheet /05/ along with all the relevant data source used /B16/ and found inline with § 34 and parameter tables 4 and 5 of the applied methodology AMS-II.G. version 11.0 /B03/. In addition, the validation team was able to successfully reproduce the value of B_{old} based on the input values and the methodology employed. The calculation is found to be appropriate and correct and hence deemed acceptable to the validation team.</p> <p>The validation team confirms the validity of the baseline has been correctly assessed and the parameters are updated as per the 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 in the PoA-DD submitted for the renewal of PoA period.</p> <p>The validation team took cognizance of §287 of PS for PoAs, version 02 /B01-2/ and §382 of VVS for PoAs (version 02.0) /B01-1/.</p>
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D.2.3. Estimated emission reductions or net anthropogenic removals

Means of validation	DR, I
Findings	-
Conclusion	<p>Validation team has checked the modalities for the calculation of the GHG emission reductions in the generic CPA part of the revised PoA-DD /02/ in accordance with the applied version of the methodology, i.e. AMS-II.G, version 11.0 /B03/. The parameters and equations presented in the PoA-DD /02/ have been compared with the information and requirements presented in the methodology /B03/ and other applicable methodological tools.</p> <p>The validation team confirms that:</p> <ul style="list-style-type: none"> • All assumptions and data used by the CME are listed in the generic CPA part of the PoA-DD /02/, including their references and sources; • All documentation used by CME as the basis for assumptions and source of data are correctly quoted and interpreted in the PoA-DD /02/; • All values used in the PoA-DD /02/ are considered reasonable in the context of the proposed PoA; • The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions; • All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD /02/. <p>The validation team took cognizance §390 (a) (iv) of VVS for PoAs, version 02.0 /B01-1/.</p>

D.2.4. Validity of monitoring plan

Means of validation	DR, I
Findings	-
Conclusion	<p>The monitoring plan in the generic CPA part of the revised PoA-DD /02/, is in compliance with the applied methodology AMS- II.G., version 11 /B03/. The project was originally registered applying small scale methodology AMS-II.G, version 03. For the 2nd PoA period, valid version i.e. version 11 of the same methodology AMS-II.G has been applied and the monitoring plan of the same has been adopted. CME has adopted the following monitoring parameters in the revised PoA-DD as per the methodology, AMS-II.G, version 11:</p>

Param eter	Data unit	Description	Monitoring Frequency
Z	Number	Total number of stoves sold and registered in the Project Database Records	Continuous
$N_{y,i,j}$	Number	Number of project devices of type i and batch j operating in a year	Annually/biennially
μ_y	Fraction	Adjustment to account for any continued use of pre-project devices during the year y for CPAs using $B_{old,i,j}$ for calculation of $B_{y,savings}$	Annually/biennially
$\eta_{new,i,j}$	Fraction	Efficiency of the device type i and batch j being deployed as part of the project activity	<ul style="list-style-type: none"> Recorded at the time of stove installation/distribution In the subsequent years after stove installation, the efficiency of project stoves to be estimated annually in accordance with options (b), (c) or (d) under paragraph 37 of the applied methodology. Choice of option to be mentioned in the CPA DD
$B_{y=1,new,i,j,survey}$	Tonnes	Quantity of woody biomass used by project devices in tonnes per device of type i .	Once within first year of project installation
$N_{d,HH}$	Number	Number of project devices distributed per household	Once at the time of CPA implementation
η_{old}	Fraction	Efficiency of pre-project device	Once at the time of CPA implementation
Life Span	Years	The operating life- time of the project device.	Recorded once at the time of CPA implementation
Date of commissioning of batch j	Date	Stoves can be grouped in batches and latest date of commissioning of a device within the batch shall be used as the date of commissioning for the entire batch.	Recorded at the time of commissioning of last stove in a batch
Date of commissioning of project device i	Date	Date of commissioning of individual stove	Recorded at the time of installation or distribution or completion of registration process of an individual stove.

Validation team can confirm that the parameters to be determined ex-post have been presented correctly and according to requirements of the applied methodology AMS-II.G version 11.0 /B03/ and that CME shall be able to monitor and report emission reductions ex-post.

Validation team has also checked the sampling plan and found in compliance with the applied methodology /B03/, Standard for sampling and surveys for CDM project activities and programme of activities, version 08.0 /B06/ and Guidelines for

	sampling and survey for CDM project activities and programme of activities Version 04.0 /B07/.
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D.2.5. Eligibility criteria for inclusion of CPAs

Means of validation	DR, I				
Findings	CAR 01 have been raised and closed successfully. Please refer to Appendix 4 for further details.				
Conclusion	No.	Eligibility criterion – Category	Eligibility criterion – Required condition	Supporting evidence for inclusion	DOE assessment
	1	PoA specific requirement	Involve the promotion and distribution of ICS by CQC or entities approved and authorised by CQC.	A clear description of which entity is distributing ICS and model of ICS shall be given on the CPA-DD. If it is an entity approved by CQC, a letter from CQC acknowledging its participation or the agreement between CQC and the entity (covering its participation on the SSC-POA) shall suffice as evidence for this eligibility criterion.	Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with §124 (i) of the PS for PoAs, v02. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA..
	2	Geographical Boundary	Is implemented within the geographical boundary Nigeria	The CME/ CPA Implementer shall self-declare that the stoves will only be sold within the geographic confines of Nigeria. This self-declaration shall be provided to DOE at the time of inclusion of the CPA.	According to §124 (a), of the PS for PoAs, v2, the geographical boundary of each CPA, shall be consistent with the geographical boundary set in the PoA. The PoA boundary is set as Nigeria. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard.

					Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	3	Small Scale threshold	<p>1.If the CPA consists of units which qualify as microscale CDM units, compliance of the CPA with small scale threshold throughout the crediting period is not required as referenced from paragraph 124 (m) of CDM standard for programme of activities; version 02.0</p> <p>2.For small scale CPAs not conforming to paragraphs 12 (a) or (b) of Tool 19, demonstration of adherence to small scale threshold to</p>	Calculation of annual energy saving for individual ICS to be submitted to DOE in case of option 1 and aggregate energy saving of CPA in case of option 2.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements of §124 (g), 124 (m), 124 (n) of the PS for PoAs, v2. The CME has selected to apply either the micro-scale threshold at the unit level rather than at the aggregate level of the CPA or the normal small scale CPA.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and</p>

			be carried out in accordance with paragraph 124 (m) of PS for PoA.		comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	4	Additionality	Each CPA will satisfy the criteria for demonstrating additionality by establishing that it is implemented in rural Nigeria and comprises of distributed units with an energy saving limit of ≤ 60 GWh _{th} /yr and end users are households/communities. For small scale CPAs not conforming to paragraphs 12 (a) or (b) of Tool 19, additionality to be demonstrated through figure 2 of Tool 19.	For demonstrating that the CPA is implemented in rural area, the CME/CPA implementer shall use publicly available/official data/survey. Energy saving calculation and self-declaration by CME/CPA implementer regarding target end users to be submitted to validating DOE.	<p>CME has adopted microscale threshold at unit level in the relevant sections of the revised PoA-DD in accordance with the Tool 19. In case the CPA does not qualify for micro scale, figure 2 of the tool 19 will be followed to demonstrate additionality which leads to small scale additionality tool (tool 21) or tool 1.</p> <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §124 (g) of the PS for PoAs, v2. 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 /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well</p>

					as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	5	Double Counting check	Has a database describing uniquely identified and defined households in which ICS have been distributed;	A CPA will have a database that includes the following for each ICS unit: name of the customer, address/ description of location, contact telephone number(s), unique serial number of the stove (including prefacing the serial number with the letters "CQC" or three letters representing the stove model), retailer ID, and date of purchase. Sample of database shall be made available to the DOE at time of inclusion.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (b) of the PS for PoAs, v2. Validation team based on review PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion—category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	6	Compliance with applicability of methodology	Conditions to ensure compliance with the applicability of the applied methodologies, and other regulatory documents. The CPA should comply with all criteria. These applicability criteria include: (1) the project involves the distribution of	Project participants must show evidence of compliance with these eligibility criteria. This would include (1) a description and technical specifications of the improve stove models to be included in the project; (2) the results of a water boiling test indicating that the ICS implemented	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) and §124 (h) of the PS for PoAs, v2. All CPAs utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.0. Validation team based on review of

			energy efficient cooking stoves; (2) these new stoves have an efficiency of no less than 20%; (3) non-renewable biomass has been used as a fuel since 1989(4) proposed method of distribution (5) define steps to ensure that double counting does not occur.	under the CPA has an efficiency of no less than 20%; and (3) an NRB analysis citing relevant literature showing that non-renewable biomass has been used since Dec. 1989.(4) self-declaration letter enumerating the method of stove distribution and (5) carry out double counting check as stated in eligibility criteria no 4 & 9.	PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	7	Exclusivity clause	Does not involve households already involved or covered by any other CPA or CDM project involving the distribution of ICS	Each ICS in each SSC-CPA included in this SSC-PoA will be identified by a unique combination of customer name and geographical location, as well as a unique serial number. The serial number will allow for a clear distinction between the stoves from this SSC-PoA with those of other potential SSC-PoAs. No individual serial number can be in more than one CPA, so it will not be possible for one stove to be counted in two different CPAs. In addition, each CPA will be cross-checked with other CPAs in this SSC-PoA and with CPAs in any other	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (c) of the PS for PoAs, v2. All CPAs shall avoid double-registration of CPA (and double counting) by declaration by the CME after checking the UNFCCC homepage. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet

				<p>SSC-PoA or in a CDM project activity operating in the country using the UNFCCC, the Gold Standard (GS), and other relevant voluntary schemes to ensure that the CPA is not included in any other SSC-PoA, CDM project activity or voluntary project activity. CPA Implementer or CME will review all on-line materials that might be available from the UNFCCC and GS websites, which list every SSC-PoA, CPA and single-project activity to ensure no other projects are covering the households included in this CPA. When possible, the CPA Implementer will try and obtain access to other project developers' databases to cross-check and ensure there is no overlap of households. Given that each stove in this SSC-PoA will have a serial number beginning with "CQC" or three letters representing the stove model, it is extremely unlikely there will be any overlap. All of this information will be summarized in a report and provided to the DOE upon verification.</p>	<p>the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p>
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	8	CPA start date	Be able to provide documentary evidence of the start date.	The start date of the CPA will be when the first stove is sold and registered in the database -- this evidence can be provided to the DOE. Specifically, the registration card or SMS text/ICT will have the date of purchase, and the DOE can review the database to confirm the earliest date of a sale of a stove.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (e) of the PS for PoAs, v2. The start date of a CPA shall be on or after the PoA start date. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. Please also refer to the closure of CAR-02.
	9	Diversion of ODA fund	Be able to affirm that no funding is coming from Annex I parties. If any public funding is made available from Annex I parties, affirm there is no diversion of Official Development Assistance (ODA);	Self-declaration letters from the CME shall be provided to the validator at time of inclusion asserting that no funding is coming from Annex I parties. If there is funding from an Annex I party, there must be a letter from the funding organization stating that the funding is not a diversion of ODA. If possible, supporting data	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §35 and §124 (j) in the PS for PoAs, v02. Validation team based on review of the PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient

				will be provided to support this assertion, such as the budget for the CPA (stove purchases, marketing/distribution costs) and the amount of financing coming from a private source.	information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	10	Double counting check	Is not registered as an individual CDM project activity nor included in another registered SSC-PoA	The CME shall cross-check the CPA with other CPAs in this SSC-PoA and with CPAs in any other SSC-PoA or in a CDM project activity operating in the country using the UNFCCC, the Gold Standard, and other relevant voluntary schemes to ensure that the CPA is not included in any other SSC-PoA, CDM project activity or voluntary project activity. All of this information will be summarized in a report and provided to the DOE upon verification.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (c) of the PS for PoAs, v2. All CPAs shall avoid double-registration of CPA (and double counting) by declaration by the CME after checking the UNFCCC homepage. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	11	PoA	Is approved by	CQC shall confirm	Validation team

		related requirement	CQC entity prior to its incorporation into the SSC-PoA.	(through a letter to the DOE at time of inclusion) that it has approved the incorporation of the CPA into the SSC-POA.	based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with §124 (i) of the PS for PoAs, v02. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA..
	12	Local stakeholder consultation & environmental analysis	The Local Stakeholder Consultation has been conducted at PoA Level and the EIA process is also performed at PoA level.	CPAs to be included in the present PoA are not required to conduct LSC or environmental analysis as these have been done at PoA level.	As per the PoA DD /02/, the local Stakeholder Consultation (LSC) and Environmental Impact Assessment (EIA) are on PoA level. Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §124 (i) of the PS for PoAs, v2. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides

					information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	13	Technology	Is introducing ICS that will have a thermal efficiency of no less than 20%, (using the WBT outlined in AMS II.G. Version 11 approved by the CDM Executive). Efficiency of the ICS shall be established by a national standards body or an appropriate certifying agent recognized by it, or alternatively manufacturers' specification shall be used	The model of stove implemented under the CPA shall demonstrate its efficiency according to the Water Boiling Test – as per AMS II.G. v11. The CPA is using a stove technology, whose manufacturer specifications are confirmed using a Water Boiling Test.	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 §124 (d) including foot note 23 and 24 and 124 (f) of the PS for PoAs, v2. All CPAs shall apply the methodology AMS-II.G., version 11.0. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. Please also refer to the closure of CAR-09.
	14	Target group	The target group should be defined clearly in the	Declaration by CME/CPA implementer to be submitted to	Validation team confirms that this eligibility criterion shall ensure that all

			CPA and should be households or communities.	validating DOE.	<p>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 §124 (k) of the PS for PoAs, v2. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p>
	15	Sampling	CPAs shall use Standard for sampling and surveys for project activities and programme of activities, version 08; for surveys	Sample size calculation to be submitted to verifying DOE.	<p>Validation team confirms that this eligibility criterion shall ensure that all CPAs in the PoA shall apply to the sampling plan of the PoA. This eligibility criterion is in accordance with AMS-II.G, version 11.0 and “Standard: Sampling and surveys for CDM project activities and programme of activities”, v08. Validation team based on review of PoA-DD /02/</p>

					<p>confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p>
	16	De-bundling check	<p>1.As the generic CPA consists of units which qualify as microscale CDM units, CPAs developed under the present PoA are exempted from performing de-bundling check, as referenced from paragraph 124 (n) of CDM standard for programme of activities; version 02.0</p> <p>2. For small scale CPAs not conforming to paragraphs 12 (a) or (b) of Tool 19, it should be demonstrated that the CPA meets the criteria for not being a de-bundled</p>	Calculation of annual energy saving for individual ICS to be submitted to DOE.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements of §124 (g), 124 (m), 124 (n) of the PS for PoAs, v2. The CME has selected to apply the micro-scale threshold at the unit level rather than at the aggregate level of the CPA. This means that any number of ICS can be implemented under one CPA. The CME has selected to demonstrate that it consists solely of units that qualify as “microscale CDM units” in order to exempt it from performing debundling check.</p> <p>For the cases when the CPA does not qualify for micro scale threshold at unit level and it is a small scale CPA, in that case CME will</p>

			component of a larger project activity (eg: the debundling rule does not apply if the stove, the independent subsystem, does not exceed 1% of the 180 GWh)		<p>demonstrate the debundling criteria as per tool 20.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p>
	17	CER Ownership rights	CPAs must include a mechanism that transfers the ownership rights of CERs from the ICS user to the project participants.	The CPA requires that a warranty card is signed or accepted by the end-user upon purchase or distribution of the stove that states that the PPs have ownership of the carbon assets for the life of the stove.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (h) of the PS for PoAs, v2. All CPA utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.0. Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the</p>

					corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
	<p>The CME has outlined clear and unambiguous eligibility criteria for the inclusion of a CPA under the PoA in section K of the PoA-DD /02/. Validation team confirm that the eligibility criteria for inclusion of corresponding CPAs in the PoA are updated by the CME in accordance with the applicable validation requirements related to the renewal of programme of activities period in the VVS for PoAs, version 02 /B01-1/ and the applied methodology AMS-II.G, version 11 /B03/.</p> <p>Validation team confirm that the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA. Furthermore, the validation team confirms that eligibility criteria for the inclusion of CPAs in the PoA have covered as per the requirements of §124 of PS for PoAs, version 02 /B01-1/.</p>				

SECTION E. Internal quality control

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The final validation report passed a technical review and quality review before being submitted to the project participant and UNFCCC Executive Board. A technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification performed the technical review.

SECTION F. Validation opinion

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The CME, C-Quest Capital LLC, has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA "Distribution of fuel-efficient improved cooking stoves in Nigeria" /B02/.

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 generic CPA-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 /02/ 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 /02/ correctly applies the small scale methodology AMS-II.G, version 11 /B03/. 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 six (06) CLs and four (04) CARs were identified on initially submitted revised PoA-DD /01/. All the CARs and CLs have been resolved by the CME.

In summary, it is validation team's opinion that the CDM programme of activity "Distribution of fuel-efficient improved cooking stoves in Nigeria" (UNFCCC Reference number 6283) 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
BE	Baseline Emission
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
CPA	Component Project Activity
CPA-DD	Component Project Activity Design Document
CL	Clarification Request
CME	Co-ordinating or Managing Entity
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
COP/MOP	Conference of Parties/ Meeting of Parties
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EB	Executive Board
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas
GWh	Giga Watt Hours
I	Interview
kW	Kilo Watt
kWh	Kilo Watt Hours
MoV	Means of Verification
MoC	Modalities of Communications
MW	Mega Watt
MWh	Mega Watt Hours
ODA	Official Development Assistance
OSV	On-Site Visit
PE	Project Emission
PoA	Programme of Activities
PoA-DD	Programme of Activities design document
PP	Project Participant
PS	Project Standard
t	Tonne
UNFCCC	United Nations Framework Convention on Climate Change
VT	Validation team
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Sanjay Agarwalla


has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:


Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input checked="" type="checkbox"/>	TA 9.2	<input checked="" type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input checked="" type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input checked="" type="checkbox"/>	TA 5.1	<input checked="" type="checkbox"/>	TA 9.1	<input checked="" type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

Date of Approval

24/12/2019

Valid Till

24/12/2020

Revision History of the Document

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision

¹ India

CARBON CHECK (INDIA) PRIVATE LIMITED

Registered in India: U74930DL2012PTC232495

Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005

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Carbon Check (India) Private Ltd.

Tushar Eknath Choudhari


has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 3.1	<input type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		


Mr. Vikash Kumar Singh
Compliance Officer


Mr. Amit Anand
CEO

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Tel: +91 120 4373114 | URL: www.carboncheck.co.in
e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Amit Anand

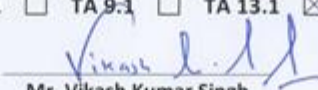
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 8.1	<input checked="" type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input checked="" type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		


Mr. Vikash Kumar Singh
Compliance Officer

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24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision

¹ India, South Africa

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	CME	Initial revised PoA-DD	Version 12; Dated: 28/02/2020	CME
/02/	CME	Final revised PoA-DD	Version 15 ; Dated: 01/07/2020	CME
/03/	C4 EcoSolutions	Independent report made by C4 EcoSolutions for determining the value of $f_{NRB,y}$	-	CME
/04/	CME	f_{NRB} calculation worksheet along with the data source	-	CME
/05/	CME	B_{old} calculation sheet	-	CME
/06/	Carbon Check	Validation Report for PRC for the PoA 6283	Version 03, dated 09/07/2020	CC IPL
/B01/	UNFCCC	1. CDM VVS for PoAs (Version 02.0). 2. CDM PS for PoAs (Version 02.0) 3. CDM PCP for PoAs (Version 02.0)	http://cdm.unfccc.int/	Others
/B02/	UNFCCC	Revised and approved PoA-DD, version 11, 17/01/2017 and the corresponding validation report for the PoA "Distribution of fuel-efficient improved cooking stoves in Nigeria", having UNFCCC Ref. No. 6283	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 11.0)	http://cdm.unfccc.int/	Others
/B04/	UNFCCC	Programme design document form for CDM programmes of activities (CDM-PoA-DD-FORM) (Version 09)	http://cdm.unfccc.int/	Others
/B05/	UNFCCC	Glossary of CDM Terms, version 10.0	http://cdm.unfccc.int/	Others
/B06/	UNFCCC	Standard: Sampling and surveys for CDM project activities and programmes of activities (version 08.0)	http://cdm.unfccc.int/	Others
/B07/	UNFCCC	Guideline: Sampling and surveys for CDM project activities and programmes of activities (version 04.0)	http://cdm.unfccc.int/	Others
/B08/	UNFCCC	1. Methodological Tool 19 "Demonstration of additionality of microscale project activities" (version 09.0) 2. Methodological Tool 21 "Demonstration of additionality of smallscale project activities" (version 13.0)	http://cdm.unfccc.int/	Others
/B09/	UNFCCC	Methodological Tool 11: "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period",	http://cdm.unfccc.int/	Others

		version 03.0.1		
/B10/	UNFCCC	Project page on UNFCCC website for the PoA 6283	http://cdm.unfccc.int/	Others
/B11/	UNFCCC	Methodological Tool 30: "Calculation of the fraction of non-renewable biomass", version 02.0	http://cdm.unfccc.int/	Others
/B12/	UNFCCC	UNFCCC website: https://cdm.unfccc.int/	http://cdm.unfccc.int/	UNFCCC
/B13/	UN Statistics Division website	UN DATA for Nigeria: <ul style="list-style-type: none"> Fuel wood consumption: http://data.un.org/Data.aspx?d=EDATA&f=cmID%3aFW Charcoal consumption: http://data.un.org/Data.aspx?d=EDATA&f=cmID%3aCH 	-	Others
/B14/	FAO	FAO. <i>Global Forest Resources Assessment</i> . (2015)	-	Others
/B15/	IPCC	IPCC. <i>Guidelines for national greenhouse gas inventories</i> . (IGES, 2006)	-	Others
/B16/	Various publicly available sources	Bold calculation sheet sourced values: <ul style="list-style-type: none"> Fuel wood consumption 2018: UN Statistics Division website/06/ Density of wood: http://www.fao.org/docrep/008/j0926e/J0926e07.htm Population of Nigeria (2018): https://data.worldbank.org/indicator/SP.POP.TOTL?locations=NG Share of population using wood for cooking; Average household size: Nigeria General Household Survey-Panel Wave 4; 2018/19 (Nigerian National Bureau of Statistics) 	-	Others

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

Table 1. CLs from this validation

CL ID	01	Section no.	D.1.4	Date: 07/03/2020
Description of CL				
CME needs to state the version of the Standard- Sampling and surveys for CDM project activities and programmes of activities consistently in the PoA-DD.				
CME's response				Date: 22/03/2020
Version number is now consistent through the document				
Documentation provided by CME				
Revised PoA DD				
DOE assessment				Date: 27/04/2020
CME has stated the latest version number of Standard- Sampling and surveys for CDM project activities and programmes of activities throughout the PoA-DD. Thus the CL is closed.				

CL ID	02	Section no.	D.1.4	Date: 07/03/2020
Description of CL				
CME needs to clarify and confirm the applicability of the micro scale additionality tool in all relevant sections of the PoA-DD appropriately.				
CME's response				Date: 16/04/2020
All relevant sections have been updated regarding application of micro scale threshold at unit level including Section C of the PoA DD.				
Documentation provided by CME				
Revised PoA DD				
DOE assessment				Date: 27/04/2020
CME has adopted microscale threshold at unit level in the relevant sections of the revised PoA-DD in accordance with the Tool 19. Also CME has clarified that the each of the stoves to be distributed under the CPAs will qualify for energy savings of less than or equal to 1.8 GWh _{th} /year (=600 MW/year). Hence according to Figure 1 of the Appendix of the Tool 21, version 13, (small scale additionality tool), the CPAs will comprise of only units of size < = MSC thresholds (20GWh/y) as specified under MSC additionality Tool19. Furthermore, the CPAs will involve distributed units of =< 600 MWh/y (=1.8 GWh _{th} /year) and end users are Households/communities. Hence as per tool 21 and tool 19 the CPAs qualify for micro scale threshold at unit level and will be auto additional subject to qualifying the above conditions.				

CL ID	03	Section no.	D.1.4	Date: 07/03/2020
Description of CL				
CME needs to confirm appropriateness of the local stakeholders consultation for the revised PoA-DD, which covers the whole of Nigeria, whereas the original PoA-DD covered only Kaduna and Kano in Nigeria.				
CME's response				Date: 22/03/2020
Stakeholders from all over Nigeria were invited for the stakeholders meeting that was held on 23rd May 2011 in Kano and on 17 th September 2012 in Kaduna vide advertisements in national newspapers; Daily Trust and Daily Triumph. In addition to invitation for physical presence, the stakeholders were also given the option of conveying their comments or suggestions via e-mail. Furthermore, through these ads, the stakeholders were also encouraged to contact PP designate to seek more information on the project. Hence although physical meeting for the LSC were held at Kano and Kaduna, CME had made efforts to secure opinion/comments of the stakeholders covering whole of Nigeria. This confirms the appropriateness of the LSC for entire Nigeria.				
Documentation provided by CME				
Revised PoA DD				
DOE assessment				Date: 27/04/2020

The provided supportive news advertisements published in national newspapers of Nigeria has been checked. Based on the assessment of the same, validation team confirms that CME has also provided email ID and representative's contact details to the stakeholders to facilitate all stakeholders across the host country to submit their comments on the project. Further, the physical stakeholder consultation meetings were arranged at two locations i.e. Kano, Kaduna for entire Nigeria. Based on the assessment of the above, it is confirmed that the local stakeholder consultation is valid for entire host country, Nigeria. Thus the CL is closed.

CL ID	04	Section no.	D.1.3	Date : 07/03/2020
Description of CL				
On the PoA page on UNFCCC web site (for the PoA 6283), it is seen that Swedish Energy Agency is one of the PP along with the signed MoC. However, this has not been reflected in the revised PoA-DD.				
CME's response				Date : 22/03/2020
Swedish Energy Agency was a project participant during first PoA renewal period that is from 07/11/2012 to 06/11/2019. For the second renewal period, CQC Nigeria and CQC Netherlands are the only project participants.				
Documentation provided by CME				
Revised PoA-DD				
DOE assessment				Date: 27/04/2020
CME has now mentioned Swedish Energy Agency as project participant in the section A.5 of the revised PoA-DD. The same has been found consistent with PoA page on UNFCCC website (for the PoA 6283). Further, CME has also incorporated contact information in the Appendix 1 of revised PoA-DD. The CL is closed.				

CL ID	05	Section no.	UNFCCC I & R check	Date : 02/06/2020
Description of CL				
1. On page 18, the PoA-DD mentions that, in line with paragraph 288 and 289 of CDM project standard for programmes of activities, modalities to calculate GHG emission reductions or net anthropogenic GHG removals that result from the baseline scenario has been reassessed in accordance with existing national and/or sectoral policies of Nigeria as well as the latest version of applied methodology. However, it does not provide step-wise assessment of the 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). Refer to paragraph 382(a) of VVS-PoA.				
CME's response				Date : 08/07/2020
The Step-wise assessment has been included in Section I.5 of PoA DD.				
Documentation provided by CME				
Revised PoA-DD				
DOE assessment				Date: 09/07/2020
CME has provided step-wise assessment of the 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) which is in line with paragraph 382(a) of VVS-PoA, version 02. The CL is closed.				

CL ID	06	Section no.	UNFCCC I & R check	Date : 02/06/2020
Description of CL				
2. With regard to the following ex-ante parameters:				
(a) Bold_{HH} : The DOE/CME is requested to explain how the determination of this parameter is in accordance with the applied methodology, i.e. either (1) <i>Bold_p times N_{p,HH}</i> ; or; (2) Based on the historical data or a sample survey conducted as per the latest version of "sampling and surveys for CDM project activities and programme of activities". It is observed that the value for year 2018 in the PoA-DD is an extrapolated data based on data of year 2015 and 2016. It is also observed that UN data also provides data for year 2017.				
(b) fNRB_y : The DOE/CME is requested to: (i) Describe how each parameter used to determine fNRB _y is in line with the Methodological tool: Calculation of the fraction of non-renewable biomass (Version 02.0); (ii) Provide the spreadsheet calculation of fNRB _y . Refer to paragraph 382(b) of VVS-PoA.				
CME's response				Date : 08/07/2020
2 (a) Calculation of Bold_{HH} is based on historical data available on UN stats site.				
The household fuelwood consumption value is extrapolated to 2018 using a second-order polynomial				

(quadratic) regression in R. The latest available factors (percentage of population using fuel wood, average household size) used in calculation of Bold value were taken from Nigeria Demographic and Health Survey 2018, hence in order to comply with same data vintage, the CME applied second order Polynomial regression to household wood fuel consumption values over a period of 17 years to calculate the 2018 consumption value. The reported consumption from 2000 to 2016 (available from <http://data.un.org>) was used. However, as the 2018 projection using 2000-2017 data is more conservative (187,902,228 m3) when compared to the projection using 2000-2016 data (188,115,625 m3), hence the former is being used for calculation of Bold HH.

The calculation has been included in Nigeria baseline fuelwood consumption sheet as well as appendix 4 of PoA DD.

(b)

The description of compliance of each parameter used in calculation of fNRB with Tool 30 has been included in section I.5 of PoA DD.

All explanations/extrapolations/projections have been included in the fNRB calculation spreadsheet and fNRB report, which is being submitted along with this PoA-DD.

Documentation provided by CME

Revised PoA-DD
Bold calculation sheet
fNRB sheet

DOE assessment

Date: 09/07/2020

- a) CME has clarified the extrapolation methodology adopted for the value of fuel wood consumption. The validation team confirms the methodology adopted by the CME and the value is appropriate and also conservative and hence deemed acceptable. PoA-DD has been revised by adding the calculation procedure in Appendix 4 and also Bold calculation spread sheet being submitted with more clarity.
- b) The validation team has checked the calculation procedure and its description for each of the parameter used to determine $f_{NRB,y}$ in line with the Methodological tool: Calculation of the fraction of non-renewable biomass (Version 02.0). f_{NRB} calculation spread sheet being submitted along with the f_{NRB} calculation report by third party C4 EcoSolutions.

The CL is closed.

Table 2. CARs from this validation

CAR ID	01	Section no.	D.1.1	Date:	07/03/2020
Description of CAR					
CME has not followed the PoA-DD completing guidelines for the followings:					
<ol style="list-style-type: none"> 1. CME needs to ensure that all the changes with respect to the registered PoA-DD are reflected in track change mode in the revised PoA-DD and also confirm that the information transferred to the revised PoA-DD is materially the same as in the registered PoA-DD. 2. CME needs to appropriately categorize each of the PRCs being proposed in Appendix 7 of the PoA-DD 3. In section K of the PoA-DD, CME needs to confirm "Eligibility criterion – Category" for each of the eligibility criteria and also comply the requirements of paragraph 124 of CDM PS for PoAs, version 02. 					
CME's response					Date: 22/03/2020
<ol style="list-style-type: none"> 1. In line with requirements of paragraphs 284 to 291 of the CDM project standard for programme of activities, the PoA has been revised to reflect the application of latest version of methodology and methodological tools used in the registered PoA (284); updated modalities for calculation of emission reduction, revision of parameters that were fixed ex-ante and not monitored and use of default values from the latest version of applied methodology (288-291). Also, according to paragraph 285, the section on additionality has not been updated. The CME has ensured that while transferring contents from registered and approved PoA DD version 12.1, to the latest version of PoA DD form, the information is materially same and all the changes have been made in track change mode. 2. All PRCs are now appropriately categorized 3. Category has now been added. 					

Documentation provided by CME				
Revised PoA DD				
DOE assessment			Date: 27/04/2020	
1. CME has provided the revised PoA-DD in track change mode. The information in the revised PoA DD is materially the same as in the registered approved PoA-DD.				
2. CME has now categorized each of the proposed PRCs in the Appendix 7 of the revised PoA-DD. The same has been checked and now found in line with paragraph 141 of PCP for PoAs, version 02.0.				
3. CME has now defined the “Eligibility criterion – Category” for each eligibility criteria in line with paragraph 124 of CDM PS for PoAs.				
The CAR is closed.				

CAR ID	02	Section no.	D.2.1	Date: 07/03/2020
Description of CAR				
In section I.6.2 of the PoA-DD, CME has stated the value of ex-ante parameter “B _{old,p} ” as 1.04. But the methodology AMS II.G, version 11 states that this parameter must be either based on standardized baseline or a default value of 0.5 to be used? CME needs to confirm the compliance of the methodology.				
CME’s response			Date: 22/03/2020	
This parameter shall not be used for estimation of B _{old,i,j} .				
Documentation provided by CME				
Revised PoA DD				
DOE assessment			Date: 27/04/2020	
CME has now removed the ex-ante parameter “B _{old,p} ”, since the same has not been now used for estimation of B _{old,i,j} in the revised PoA-DD. Thus the CAR is closed.				

CAR ID	03	Section no.	D.2.1	Date : 07/03/2020
Description of CAR				
CME has not clarified each of the applicability conditions of the applied revised methodology, AMS II.G, version 11 in section I.2 of the PoA-DD.				
Project participant response			Date : 22/03/2020	
<i>PoA’s compliance with each of the applicability condition of applied methodology has now been included in Section I.2 of the PoA DD</i>				
Documentation provided by project participant				
Revised PoA DD				
DOE assessment			Date: 27/04/2020	
CME has now incorporated the all applicability criteria of the applied methodology and its compliance in the section I.2 of the revised PoA-DD. The same has been checked and found consistent with applied methodology, AMS.II.G, version 11. Thus the CAR is closed.				

CAR ID	04	Section no.	D.2.2	Date: 07/03/2020
Description of CAR				
CME needs to comply paragraph 291 of the PS for PoAs, version 02 which states: “If data and parameters used for determining the original baseline, that were determined ex ante and not monitored during the PoA period, are no longer valid, the coordinating/managing entity shall update such data and parameters in accordance with the “Methodological tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period””.				
Project participant response			Date: 22/03/2020	
“Methodological tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period” has been used for assessment of validity of current baseline in Section I.5 of the PoA DD.				
Documentation provided by project participant				
Revised PoA DD				
DOE assessment			Date: 27/04/2020	
CME has revised section I.5 of the PoA-DD for demonstration of validity of current baseline. CME has followed step 1.4 of the 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. The same has been checked and found in line with the referred paragraph 291 of the PS for PoAs, version 02 requirement. Thus the CAR is closed.				

Table 3. FARs from this validation

FAR ID	xx	Section no.		Date:DD/MM/YYYY
Description of FAR				
-				
CME's response				Date:DD/MM/YYYY
-				
Documentation provided by CME				
-				
DOE assessment				Date:DD/MM/YYYY
-				

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
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		