




**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)	DelAgua Public Health Program in Eastern Africa UNFCCC reference number: 9626
Number and duration of the next period	Number: Second renewal period Duration: 21/11/2020 to 20/11/2027 (including both the days)
Version number of the validation report	043
Completion date of the validation report	1831/014/20219
Version number of PoA-DD to which this report applies	5.32
Coordinating/managing entity (CME)	DelAgua Health Rwanda Limited
Host Parties	Republic of Rwanda
Applied methodologies and standardized baselines	AMS II.G, version 11.1, 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

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The CME, DelAgua Health Rwanda Limited, has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA "DelAgua Public Health Program in Eastern Africa" /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 Renewal of the PoA period. 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 02.0) /B01-1/, CDM PCP for PoAs (version 02.0) /B01-3/ and CDM PS for PoAs (version 02.0) /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/SMEs of Rwanda. The fuel-efficient cook stoves are replacing the non-efficient 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/ /02/
- 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.	Trainee Assessor	IR	Gedam	Pallavi Ganesh	CC IPL	X	NA		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 02.0 /B01-1/ and concluded to not conduct a site visit for the validation. Desk review of the submitted revised PoA-DD /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			

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1.	Silon	Kyle	DelAgua Health Rwanda Limited	28/09/2020	Discussion on the revised PoA-DD and the proposed PRC and RCP	Sanjay Kumar Agarwalla
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C.4. Sampling approach

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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	-	02	-
Programme of activities period	-	-	-
Coordinating/managing entity and the project participants	-	-	-
Post-registration changes	-	01	-
Generic component project activities	-	-	-
Application and selection of methodologies and standardized baselines	02	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	-	-01	-
Total	02	076	-

SECTION D. Validation findings

D.1. Programme of activities

D.1.1. Compliance with PoA-DD form

Means of validation	DR
Findings	CAR 01, CAR 02 and CAR 03 had been raised and successfully resolved. 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 02.0 /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/. <p>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.</p>

D.1.2. Programme of activities period

Means of validation	DR
Findings	-
Conclusion	As verified from the PoA-DD project page on UNFCCC web site, the start date of 2 nd PoA period proposed for this PoA is 21/11/2020 with the length of 7 years i.e.

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	from 21/11/2020 to 20/11/2027. 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 02.0 /B01-1/.
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D.1.3. Coordinating/managing entity and the project participants

Means of validation	DR, I						
Findings	-						
Conclusion	<p>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 9626 and the latest MoC statement available on UNFCCC web site.</p> <p>As per the updated PoA-DD /02/, the coordinating/managing entity, project participants and parties involved in the programme of activities are:</p> <table><tr><th>Parties involved</th><th>CME /Project participants</th><th>Indicate if the Party involved wishes to be considered as project participant (Yes/No)</th></tr><tr><td>Republic of Rwanda (host)</td><td>DelAgua Health Rwanda Limited (private entity)</td><td>No</td></tr></table> <p>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 02.0 /B01-1/.</p>	Parties involved	CME /Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)	Republic of Rwanda (host)	DelAgua Health Rwanda Limited (private entity)	No
Parties involved	CME /Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)					
Republic of Rwanda (host)	DelAgua Health Rwanda Limited (private entity)	No					

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	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	N	NA	NA
Changes to the programme design	Y	02	318/014/20219
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	DR, I			
Findings	CL 01, CL 02, CAR 04 and CAR 05 had been raised and successfully resolved. Please refer to Appendix 4 for further details.			
Conclusion	At the time of registration of the PoA-DD, the CME applied the methodology – AMS-II.G, version 07, “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 11.1, “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass” /B03/.			
	The applicability of the methodology is assessed below:			
	S/N	Applicability conditions of AMS	CME justification	DOE assessment

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		II.G, version 11.1		
	1	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 cook stoves or ovens or dryers and/or energy efficiency improvements in existing biomass fired cook stoves or ovens or dryers.	Covered under eligibility criteria 12 and 13	The project comprises of distribution of improved cook stoves using non-renewable biomass. This methodology applicability criterion is covered under the eligibility criteria 12 and 13.
	2	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 12" 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	Covered under eligibility criteria 13	The defined minimum 20% efficiency of improved cookstove is same as defined in the earlier version of applied methodology AMS.II.G, version 07. Thus, there is no change in minimum efficiency requirement for ICS in the latest version of the applied methodology AMS.II.G (version 11.1) /B03/. The justification provided CME is acceptable and validation team confirms that project complies with the same.
	3	The aggregate energy savings of a single project activity shall not exceed the equivalent of 180 GWh thermal per year in fuel input (this is not applicable to microscale CPAs, as described in criterion 23)	Covered under eligibility criteria 15	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 Tool 19 and will consist of solely microscale CDM units. Paragraph 15 of the Tool 19 /B08/ states: "If each of the units contained in the CPA satisfies the condition to qualify as a 'microscale CDM unit', then the

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			<p>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".</p> <p>For the CPAs which do not qualify under micro scale, the small scale threshold of energy savings of 180 GWhth/year will be applicable.</p> <p>The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.</p>
4	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.	Covered under eligibility criteria 14	The defined non renewable biomass usage in the project region since 31 st December 1989 is same as defined in the earlier AMS.II.G, version 07. 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.
5	For cases where the biomass is sourced from renewable sources, the project participants should use a corresponding Type I methodology.	Biomass is sourced from non-renewable sources, as demonstrated by fNRB.	This criterion is not applicable for the project as the project will use biomass sources from non-renewable sources.
6	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.	<u>Project devices use woody biomass only. Covered under eligibility criteria 20</u>	<u>If applicable, the CPA-DD monitoring plan shall use Option 2 to measure By.savings.i.f. The project devices use only woody biomass</u>
7	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).	Covered under eligibility criteria 3	Validaton team has checked the revised PoA-DD and found that CME has defined eligibility criterion number 3 for double counting check to ensure compliance with this requirement of the applied methodology, AMS.II.G, version 11.1 /B03/. The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.

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	8	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.	Covered under eligibility criteria 2 and 3	Validation team has checked the revised PoA-DD /02/ and found that CME has defined eligibility criteria number 2 and 3 regarding CER Ownership rights to ensure compliance with this requirement of the applied methodology, AMS.II.G, version 11.1 /B03/. The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.
	9	<p>The use of this methodology in a project activity under a programme of activities is legitimate if the following leakages are estimated and accounted for, as required on a sample basis using a 90/30 precision for the selection of samples:</p> <p>(a) Use of non-renewable woody biomass saved under the project activity to justify the baseline of other CDM project activities can also be a potential source of leakage. If this leakage assessment quantifies a portion of non-renewable woody biomass saved under the project activity that is then used as the baseline of other CDM project activities then $B_{old,i,j}$ is adjusted to account for the quantified leakage;</p> <p>(b) Increase in the use of non-renewable woody biomass outside the project boundary to create non-renewable woody biomass</p>	CPAs shall estimate leakage using option (c) as described in the sampling plan.	CME has opted option (c), i.e. default value of 0.95 for leakage adjustment factor. This is deemed acceptable in line with the methodology.

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		<p>baselines can also be a potential source of leakage. If this leakage assessment quantifies an increase in the use of non-renewable woody biomass outside the project boundary then $B_{old,i,j}$ is adjusted to account for the quantified leakage;</p> <p>(c) As an alternative to subparagraphs (a) and (b) $B_{old,i,j}$ can be multiplied by a net to gross adjustment factor of 0.95 to account for both leakages, in which case surveys are not required.</p>		
	10	<p>The fraction of non-renewable biomass (fNRB) will be determined at the CPA level. To determine the fNRB value to be applied in a Component Project Activity (CPA) of a POA, use one of the two options as follows: (a) Conduct local studies to determine the local fNRB value (sub national values) for a CPA as per the "TOOL30: Calculation of the fraction of non-renewable biomass"; or (b) Use default national values approved by the Board.</p>	Defined in CPA monitoring plan	<p>As no national value exists for Rwanda, the global default value of 0.3 shall be usedfNRB will be determined at CPA level in line with Tool 30.</p>
	11	<p>Monitoring approaches for $B_{y,savings,i,j}$¹ and values for parameters fNRB (when Option</p>	Defined in CPA monitoring plan	<p>Monitoring approach for $B_{y,savings}$ will be confirmed at the time of CPA inclusion along with the value of $B_{old,i,j}$. This is in line with the applied methodology.</p>

¹ Any one of the four options in paragraphs **Error! Reference source not found.** to **Error! Reference source not found.** may be used for a particular CPA, but there should be no change in the chosen option during the crediting period.

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		(a) in paragraph Error! Reference source not found. is chosen) and the quantity of woody biomass $B_{old,i,j}$ may be determined either at the CPA level before the inclusion of the CPA or at the PoA level before the registration of the PoA-DD.		
	12	If the generic CPA consists solely of units that qualify as "microscale CDM units" as defined in the "TOOL19: Demonstration of additionality of microscale project activities", the conditions to ensure that CPAs that will be included meet the small-scale or microscale thresholds and remain within those thresholds throughout the crediting period of the CPAs are not required	Covered under eligibility criteria 1 and 17	CME has adopted microscale threshold at unit level in the relevant sections of the PoA-DD in accordance with the Tool 19. 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.
The PoA/Generic CPA part of the PoA-DD, fulfills all relevant criteria of the applied methodology AMS-II.G, version 11.1 /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. 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 02.0 /B01-1/.				

D.2.2. Validity of original baseline or its update

Means of validation	DR, I
Findings	CAR 06 had been raised and successfully resolved. 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>

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	<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 07.0. During 2nd renewal period, PoA has applied valid latest version i.e. 11.1 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 11.1.</p> <p>CME opted to calculate the determine $B_{old,i,j}$ and f_{NRE}-value at CPA level at the time of CPA inclusion and for f_{NRE} in absence of any national default value for Rwanda, the global default value of 0.3 shall be used.</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 02.0 /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 11.1 /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 11.1 /B03/. The project was originally registered applying small scale methodology AMS-II.G, version 07. For the 2nd PoA period, valid version i.e. version 11.1 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</p>

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revised PoA-DD as per the methodology, AMS-II.G, version 11.1:

Parameter	Data unit	Description	Monitoring Frequency
$\eta_{old,i,j}$	Fraction	Efficiency of pre - project device	Fixed for each individual household when included in the project activity database.
μ_y	Fraction	Adjustment to account for any continued use of pre-project devices during the year y	At least once every two years (biennial)
$N_{y,i,j}$	Units	Number of project devices of type i and batch j operating during year y	At least once every two years (biennial)
$\eta_{new,i,j}$	Fraction	Efficiency of the device of each type i and batch j implemented as part of the project activity.	i) Recorded at the time of commissioning/distribution; (ii) Adjusted for the loss of efficiency as paragraph Error! Reference source not found. (of AMS-II.G)
Life Span	Number of years	The operating lifetime of the project device	Fixed and recorded at the time of commissioning/distribution
$NCV_{biomass}$	TJ/tonne	Net calorific value of the non-renewable woody biomass, briquettes or charcoal used in project devices	Annually, if briquette or charcoal is used.
LEC_y	Tonnes/yr	Leakage estimates will be obtained by 3rd party survey, self-administered survey, default value or literature review.	Annual
$B_{new-KPT,i,j}$	Tonnes	Annual quantity of woody biomass used in tonnes per project device of type i and batch j	Annual
$B_{y=1,new,i,j,survey}$	Tonnes	Quantity of woody biomass used by project devices in tonnes per device of type i	First year of installation
Date of commissioning of batch j	Date	Date of commissioning of batch j	Fixed and recorded at the time of commissioning/distribution of the last project device in the batch
Date of commissioning of project stove device i	Date	Actual date of commissioning of the project device.	Fixed and recorded at the time of commissioning/distribution
$N_{d,HH}$	Number	Number of project devices distributed per household	Recorded at the time of commissioning/distribution of project

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			devices
<p>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 11.1 /B03/ and that CME shall be able to monitor and report emission reductions ex-post.</p> <p>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/.</p>			

D.2.5. Eligibility criteria for inclusion of CPAs

Means of validation	DR, I													
Findings	CAR 01 and CAR 02 had been raised and successfully resolved. Please refer to Appendix 4 for further details.													
Conclusion	<table> <tr> <th>No.</th><th>Eligibility criterion – Category</th><th>Eligibility criterion – Required condition</th><th>Supporting evidence for inclusion</th><th>DOE assessment</th></tr> <tr> <td>1</td><td>Geographical Boundary</td><td>Each CPA will be referenced by a unique host government recognized boundary (such as districts, sectors, cells, villages, etc) within Rwanda. Reference to UN LDC List.</td><td>The boundary will be stated in the CPA DD and checked by the DOE. Rwanda is an LDC².</td><td>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 Rwanda. 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</td></tr> </table>				No.	Eligibility criterion – Category	Eligibility criterion – Required condition	Supporting evidence for inclusion	DOE assessment	1	Geographical Boundary	Each CPA will be referenced by a unique host government recognized boundary (such as districts, sectors, cells, villages, etc) within Rwanda. Reference to UN LDC List.	The boundary will be stated in the CPA DD and checked by the DOE. Rwanda is an LDC ² .	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 Rwanda. 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
No.	Eligibility criterion – Category	Eligibility criterion – Required condition	Supporting evidence for inclusion	DOE assessment										
1	Geographical Boundary	Each CPA will be referenced by a unique host government recognized boundary (such as districts, sectors, cells, villages, etc) within Rwanda. Reference to UN LDC List.	The boundary will be stated in the CPA DD and checked by the DOE. Rwanda is an LDC ² .	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 Rwanda. 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										

² https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/ldc_list.pdf

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					assessment of the inclusion of corresponding CPAs in the PoA.
2	Avoid Double Counting of CPAs	All CPA Implementers shall sign a declaration confirming that emission reductions from the ICS distributed under the CPA are assigned to the PoA.	Executed attestation from each CPA Implementer	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (b) and (c) of the PS for PoAs v2. All CPAs shall avoid double-registration of CPA (and double counting) by executed attestation from each CPA Implementer. 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	Avoid Double Counting of Technology	Each technology distributed by a CPA will contain a unique identification number	Unique barcodes attached to each technology will be traceable through the CME database and will identify the location of the household. All project participants shall sign an attestation stating that all emission reductions from	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	

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				the ICS distributed under any CPA are exclusively assigned to the PoA	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.
4	Performance Specification	All technologies distributed shall receive approval from the host country government, if required, and will comply with criterion #13.	Approval letter from appropriate government agency, if necessary.	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 11.1. 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	

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					comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. Please also refer to the closure of CAR-09.
5	Start Date	Each CPA must confirm that its start date is not prior to the commencement of validation of the programme of activities, i.e. the date on which the CDM-PoA-DD is first published for global stakeholder consultation. The date of webhosting of the CDM-PoA-DD is no later than August 2, 2012.	Section C.1 of the CPA-DD shall contain a statement that no technologies were distributed prior to the commencement of validation for the PoA.	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.	
6	Additionality – Target Group	End-users receiving project technologies are households or communities or Small and Medium Enterprises (SMEs).	Manufacturers specifications or literature demonstrating the target group for the technology, will be provided to support the statement in section A.3.	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	

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					<p>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>
7	LSC	An LSC must be conducted that is appropriate for the region and target group of the CPA, and that meets host country and CDM requirements.	LSC report Unless otherwise required by the host country, a CPA may reference an LSC from a previous CPA, if the LSC is from the same region and includes the target group.	As per the PoA DD /02/, the local Stakeholder Consultation (LSC) is on CPA 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.	<p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the</p>

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					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.
8	EIA	Each CPA must reference an Environmental Impact Assessment approval that is appropriate for the region and technology, or cite relevant regulations that exempts the project proponent from conducting an EIA.	EIA approval or waiver, or relevant national regulation demonstrating that an EIA is not required.] Unless otherwise required by the host country, a CPA may reference an EIA received from a previous CPA, if the EIA is in the same region and utilizes the same technology.	As per the PoA DD /02/, the Environmental Impact Assessment (EIA) is on CPA 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.	
9	ODA	The CME shall confirm that there is no public funding from Annex I parties. If funding is	Statement by CME in CPA-DD that there is no public funding from an Annex I party, or confirmation from	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.	

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			received from an Annex I party, the donor shall provide confirmation that this funding is not a diversion of official development assistance (ODA).	Annex I donor that funding is not a diversion of ODA.	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 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	Distribution Method	Project technologies are directly distributed to end-users	The CPA-DD specifies the distribution method in section A.1.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) 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 11.1. 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	

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					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	Sampling Requirements	Each CPA must follow the sampling guidelines as described in section I.7.2.	Monitoring plan.	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 11.1 and "Standard: Sampling and surveys for CDM project activities and programme of activities", v08. 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.	
12	Applicability Condition – AMS-	Appliances displace use of non-renewable biomass.	1. Reference to surveys or government statistics showing	Validation team confirms that this eligibility criterion has been sufficiently set	

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		II.G		<p>that biomass is consumed in the baseline.</p> <p>2. f_{NRE} value shows that biomass consumption is considered non-renewable.</p>	<p>for all CPAs inline with the requirements §124 (f) of the PS for PoAs, v2.</p> <p>All CPAs utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.1. 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>
	13	Applicability Condition – AMS-II.G	Project technologies include single pot or multi pot portable or in-situ cook stoves with specified thermal efficiency of at least 20%.	Third party reports or manufacturer specifications.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) of the PS for PoAs, v2.</p> <p>All CPAs utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.1. Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the</p>

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					<p>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>
14	Applicability Condition – AMS-II.G	NRB has been used since 31 December 1989.	Reference to 3 rd party literature demonstrating that NRB has been used since 31 December 1989.	<p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) of the PS for PoAs, v2.</p> <p>All CPAs utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.1.</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 comprehensive to</p>	

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				permit the assessment of the inclusion of corresponding CPAs in the PoA.
15	SSC Limit	CPAs consisting solely of microscale units, as defined by paragraph 124(m) of CDM PS PoA Version 02.0, can have aggregate energy savings below, equal to, or above the Type II threshold without penalty. Alternatively, a CPA shall demonstrate that it will remain under the Type II SSC energy savings threshold of 180 GWh per year.	If necessary, manufacturing specifications, demonstrating product efficiency, and ex-ante emissions reduction calculations according to the calculations described in section I.6.3 of the PoA-DD.	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. 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.
16	Debundling Check	CPAs consisting solely of microscale units, as defined by paragraph 124(m) of CDM PS PoA Version, are exempt from	If necessary, manufacturing specifications, demonstrating product efficiency improvement, and ex-ante debundling calculations following the procedure	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

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			<p>the debundling check.</p> <p>Other CPAs will demonstrate that it is exempt from a debundling check as each sub-system is no more than 1 per cent of the CPA threshold.</p>	<p>described in Section I.7.3 of the PoA-DD</p>	<p>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 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	Additionality	A CPA is additional if it is implemented within Rwanda	Ex-ante estimates shall be provided following the procedure outline	CME has adopted microscale threshold at unit level in the relevant sections of

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		and the ICS does not exceed 60GWhth energy savings per year in accordance with paragraph 12 (a) of Tool 19; version 09. Small-scale CPAs shall demonstrate additionality according to paragraph 11 in Tool 21.	in section I.6.1 of the PoA-DD, with parameter values that are appropriate for the CPA region.	the revised PoA-DD in accordance with the Tool 19. If micro scale additionality is not chosen using Tool 19, CME will prove additionality using paragraph 11 of Tool 21, version 13.1. 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 as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
18	Technology	The expected life span of each type of project device shall be stated in the CPA-DD	The expected life span shall be stated Section 5.1 of the CPA-DD, based on statement from manufacturer. The	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) of the PS for

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			actual lifespan shall be determined by monitoring efficiency. As stated in parameter $\eta_{new,i,j}$, (section I.7.1), if the efficiency of the device drops below 20%, the stoves are considered to have reached the end of their operational lifetime and will be removed from the project (so that no emission reductions will be claimed from stoves that are not operational). Stoves that are not operational may be replaced, so that crediting can continue.	PoAs, v2. All CPAs utilizing this generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.1. 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.
49	Methodological Requirement AMS-II.G	If CPAs involve a switch from baseline device using firewood to efficient project device using charcoal or switching from firewood to efficient project device using briquette shall take into account the leakage effects related to the charcoal or briquette production.	If applicable, CPAs shall describe how leakage effects from charcoal or briquette production are quantified. A default value of 0.030 t CH ₄ /t charcoal may be used in accordance with AMS-III.G, as described in parameter LEC_y in section I.7.1.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) 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 11.1. 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 –

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					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.
20	Methodological Requirement AMS-II.G	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.	If applicable, the CPA-DD monitoring plan shall use Option 2 to measure $B_{y,savings,i,j}$.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) 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 11.1. 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	

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				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 02.0 /B01-1/ and the applied methodology AMS-II.G, versin 11.1 /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 02.0 /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, DelAgua Health Rwanda Limited, has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA "DelAgua Public Health Program in Eastern Africa" /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 11.1 /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 two (02) CLs and ~~six~~seven (06)7 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 "DelAgua Public Health Program in Eastern Africa" (UNFCCC Reference number 9626) 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 _{2e}	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

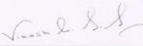
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

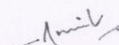
Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Assessor ¹	<input checked="" type="checkbox"/>

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

24/12/2020

Valid Till

24/12/2021

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
24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision
01/03/2020	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision

¹ India

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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 ☒ TA 3.1 ☒ TA 5.2 ☐ TA 9.2 ☐ TA 13.2 ☐
 TA 1.2 ☒ TA 4.1 ☐ TA 8.1 ☒ TA 10.1 ☐ TA 14.1 ☒
 TA 2.1 ☐ TA 5.1 ☐ TA 9.1 ☐ TA 13.1 ☒

Mr. Vikash Kumar Singh
Compliance Officer

Date of Approval
24/12/2020

Valid Till
24/12/2021

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24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision
01/03/2020	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision

¹ India and 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 Interim PoA-DD	Version 4.4; Dated: 12/06/2020 Version 5.2 : Dated: 16/11/2020	CME
/02/	CME	Final revised PoA-DD	Version 5.23 ; Dated: 16/08/2021 14/20210	CME
/03/	Carbon Check	Validation Report for PRC for the PoA 9626	Version 023, dated 16/08/2021 14/20210	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 4.4, 12/06/2020 and the corresponding validation report for the PoA "DelAgua Public Health Program in Eastern Africa", having UNFCCC Ref. No. 9626	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 11.1)	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) 2. Methodological Tool 21 "Demonstration of additionality of smallscale project activities" (version 13.1)	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", version 03.0.1	http://cdm.unfccc.int/	Others
/B10/	UNFCCC	Project page on UNFCCC website for the PoA 9626	http://cdm.unfccc.int/	Others
/B11/	UNFCCC	Methodological Tool 30:	http://cdm.unfccc.int/	Others

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		"Calculation of the fraction of non-renewable biomass", version 02.0		
/B12/	UNFCCC	UNFCCC website: https://cdm.unfccc.int/	http://cdm.unfccc.int/	Others

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

Table 1. CLs from this validation

CL ID	01	Section no.	D.2.1	Date: 29/09/2020
Description of CL				
In the revised and approved PoA-DD the operational lifetime of the Dura stoves is stated to be between 2 to 5 years whereas the same is considered as 5 years in the revised PoA-DD.				
Clarification is requested.				
CME's response				Date: 31/10/2020
The original manufacturer specifications (in 2012, when the PoA was registered)) stated a lifetime of 2-5 years. However, the manufacturer specifications have since been updated to specify a lifetime of 6-7 years. During a previous PRC, the lifetime was conservatively set at 5 years. The PoA-DD has been updated to reflect this.				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
As clarified by the CME, the stove manufacturer specification states the stove life span as 6-7 years. During the last PRC approval of the PoA-DD, the life span was stated as 5 years in the PoA-DD. Accordingly the life span of the stoves is stated as 5 years in the submitted PoA-DD. This is deemed acceptable to the validation team. The CL is closed.				

CL	02	Section no.	D.2.1	Date: 29/09/2020
Description of CL				
CME needs to clarify all the ex-ante and ex-post parameters shown in the revised PoA-DD as per the applied methodology version (AMS-II.G, version 11.1).				
CME's response				Date: 31/10/2020
The ex-ante and ex-post parameters have been clarified				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
In the revised PoA-DD, CME has provided all the relevant ex-ante and ex-post parameters as per the applied latest version of the methodology AMS-II.G, version 11.1. The CL is closed.				

Table 2. CARs from this validation

CAR ID	01	Section no.	D.1.1	Date: 29/09/2020
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 clarify how can the version and date of the revised PoA-DD be same as the last revised and approved PoA-DD by UNFCCC? 2. 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- 				

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DD is materially the same as in the registered PoA-DD.	
3. Table formats in section I.6.2 and I.7.1 of the PoA-DD has been altered.	
4. CME needs to appropriately categorize each of the PRCs being proposed in Appendix 7 of the PoA-DD.	
5. 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: 31/10/2020
1. The version/date have been updated	
2. All changes are made in track change mode.	
3. Table formats have been corrected	
4. Appendix 7 has been updated to include a description of the programme design.	
Documentation provided by CME	
PoA-DD v5.2	
DOE assessment	Date: 06/11/2020
1. Version and date of the PoA-DD has been updated.	
2. All the changes in the PoA-DD have been provided in track change and it is confirmed that the information transferred to the later version of the PoA-DD is materially the same as in the previous version of the PoA-DD (except the changes due to Programme design change, i.e. removal of methodology AMS-III.A.V for which PRC in the PoA is being submitted along with the RCP of PoA).	
3. Table formats in section I.6.2 and I.7.1 of the PoA-DD have been corrected in line with the PoA-DD template.	
4. The PRC being proposed (removal of one of the methodology) falls under programme design change and this has been confirmed in the PoA-DD Appendix 7.	
5. Validation team confirms that in section K of the PoA-DD, CME has confirmed "Eligibility criterion – Category" for each of the eligibility criteria and also complied the requirements of paragraph 124 of CDM PS for PoAs, version 02.	
The CAR is closed.	

CAR ID	02	Section no.	D.1.1	Date: 29/09/2020
Description of CAR				
CME needs to adopt latest versions of all the methodological tools in the PoA-DD in line with para 284 (a) of PS for PoAs, version 02.				
<p>The PoA-DD indicates that future CPAs shall be included as per the Guidelines on the demonstration of additionality of small-scale project activities (Version 09), EB 68 Annex 27. The CME shall provide information on how it considered this approach to comply with paragraph 284 of the PS-PoA version 02 which states to support a request for renewal of the PoA period of a registered CDM-PoA, the CME shall, using the valid version of the applicable PoA-DD form, update the sections of the PoA-DD, including its generic CPA-DD part, relating to the eligibility criteria for inclusion of CPAs in the PoA and paragraph 124 (g) of the PS-PoA version 02 which requires to derive the conditions for demonstrating additionality from the requirements contained in the additionality section of the applied methodologies, or if such section does not exist, from the Methodological tool: Demonstrating additionality of small-scale project activities and, where necessary, any applicable additionality tool.</p>				
CME's response				Date: 31/10/2020
The latest version of all tools has been adopted in the PoA				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
CME has submitted revised PoA-DD adopting latest methodology and all methodological tools in line with para 284 of PS for PoAs, version 02 and updated section C accordingly. The CAR is closed.				

CAR ID	03	Section no.	D.1.4	Date: 29/09/2020
Description of CAR				
It is noted that in the revised PoA-DD, CME has removed one of the applied methodology (AMS III-A.V). As per para 238 (c) of PS for PoAs, version 02, "Removal of applied methodologies and/or standardized baselines from the registered PoA-DD" requires programme design change under post registration changes.				
CME's response				Date: 31/10/2020
PRC contract submitted.				
Appendix has been updated to include the PRC.				
Documentation provided by CME				
PoA-DD,v5.2				
DOE assessment				Date: 06/11/2020

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PRC of the PoA is being submitted along with RCP. The CAR is closed.

CAR ID	04	Section no.	D.2.1	Date: 29/09/2020
Description of CAR				
CME needs to confirm each of the applicability conditions of the applied revised methodology, AMS II.G, version 11.1 in section I.2 of the PoA-DD as stated in the meth.				
CME's response				Date: 31/10/2020
All applicability conditions from the meth are include in the PoA				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
Section I.2 of the PoA-DD has been revised adopting the latest version of the methodology AMS-II.G (version 11.1). The CAR is closed.				

CAR ID	05	Section no.	D.2.1	Date: 29/09/2020
Description of CAR				
CME has adopted a value of 0.98 for the ex ante parameter fNRB stating "Default values are used as published in EB 67 Annex 22 "Default Values for Fraction of Non-Renewable Biomass for Least-Developed Countries and Small Island Developing States". CME needs to clarify the appropriateness of this value considering that this value has expired on 20/05/2017 (https://cdm.unfccc.int/DNA/fNRB/index.html).				
CME's response				Date: 31/10/2020
Value is set ex-ante at the CPA level				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
CME has revised the PoA-DD in which the fNRB value will be determined at CPA level. The CAR is closed.				

CAR ID	06	Section no.	D.2.2	Date: 29/09/2020
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".				
CME's response				Date: 31/10/2020
Section I.5 has been updated to comply with para 291				
Documentation provided by CME				
PoA-DD v5.2				
DOE assessment				Date: 06/11/2020
In section I.5 of the revised PoA-DD, CME has adopted 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 for determining the original baseline, that were determined ex ante and not monitored during the PoA period, are no longer valid. The CAR is closed.				

CAR ID	07	Section no.	UNFCCC I & R query	Date: 05/01/2021
Description of CAR				
2: Paragraph 378 of VVS-PoA: Section C of the PoA-DD states that CPAs shall demonstrate additionality according to the Methodological tool "Demonstration of additionality of microscale project activities", version 09.0. However, as page 2 of the PoA-DD states that CPAs under this PoA may also be small-scale, there is no information how the additionality of the CPAs that are small-scale will be demonstrated.				
3: Paragraph 378 of VVS-PoA and paragraph 77 of PS-PoA (footnote 10): The following have been observed in regard to the description of the CPAs in the generic CPA-DD: (a) The information under parameters NCVbiomass, LECy, Bnew-KPT,i,j and By=1,new,i,j,survey indicates the switch of baseline device using firewood to project device using charcoal or briquette. However: (i) Section H.3 (Purpose and general description of generic CPA) does not include the switch of baseline device using firewood to project device using charcoal or briquette; (ii) Section H.4 (Technologies/measures) only indicates the use project stove burning firewood; (b) Section I.6.1 or I.6.3 of the generic CPA-DD does not describe the methods to calculate the emission reductions when charcoal or briquette is used as project fuel;				

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(c) Considering above scenarios (the switch of baseline device using firewood to project device using charcoal or briquette) which may include additional equations to calculate emission reductions, the DOE/CME is requested to explain why separate generic CPA-DD is not prepared for each of the possible scenarios.

4: Paragraph 382(b) of VVS-PoA:

The following have been observed in regard to the parameters not monitored:

(a) Np.HH: The generic CPA has provision that value established in the first CPA may be used in subsequent CPAs located in similar country/region. It is not clear how this provision is in line with methodology's provision for this parameter that this parameter is established ex ante prior to project implementation based on records of households served by the project, considering each CPA includes different households;

(b) Bold.i.i: The generic CPA has provision that value established in the first CPA may be used in subsequent CPAs located in similar country/region. It is not clear how this provision is in line with methodology's provision that this parameter is calculated as Bold.HH divided by Nd.HH, considering Nd.HH is a monitored parameter and to be recorded at the time of commissioning/distribution of project devices, and hence may only be specific to a particular CPA;

(c) fNRB.y: (i) The generic CPA-DD has not described the formulas to calculate fNRB.y as per tool 30; (ii) The generic CPA-DD has not listed parameters that are required to calculate fNRB.y; (iii) It is not clear how the provision that value established in the first CPA may be used in subsequent CPAs located in similar country/region will be in line with provision of each parameters to calculate fNRB.y from tool 30. For example, parameter HW from tool 30 requires the use of the most recent available historical data. Hence, the use of value established in the first CPA may not comply with this requirement; (iv) The PoA-DD has not defined the option to determine fNRB.y as required by paragraph 49 (footnote 24).

5: Paragraph 382(b) of VVS-PoA:

The sampling plan provides a sample size calculation for number of households which corresponds to 83.5. However, it is not clear if this only serves as an example, or whether this is the sample size to be used during monitoring;

(a) If it is the sample size to be used during monitoring, the DOE is requested to explain to which parameters this sample size is applicable and how the sample size has been calculated using the expected value of parameter which should be determined using the CME's knowledge and experience and the expected variance based on the results from similar studies including other similar CDM project activities or previous monitoring periods, pilot studies, 13 or from the project planner's own knowledge of the data as required by paragraph 13 of the Standard: Sampling and surveys for CDM project activities and programmes of activities, version 08.0;

(b) If it serves as an example, the sampling plan does not include provisions from paragraphs 13 and 14 of the Standard: Sampling and surveys for CDM project activities and programmes of activities, version 08.0;

(c) The DOE/CME is requested to state which parameters to be sampled in the sampling plan.

CME's response

Date: 30/01/2021

2. Section C has been updated to state that small-scale CPAs demonstrate additionality according to paragraph 11 of Tool 21. Criterion 17 has been revised to include small-scale additionality requirements.

3. Parameter LECy has been removed from the sampling plan

NCVbiomass has been moved to a fixed parameter (not monitored), and the reference to charcoal and briquette has been removed.

The reference to charcoal in the additional comments of the Bnew-KPT.i,j parameter has been removed

The reference to charcoal in the additional comments of the By=1.new,i,j,survey parameter has been removed

Eligibility criterion 19 (involving project stoves that use charcoal or briquettes) & criterion 20 (involving project devices that use briquettes, pellets, woodchips) in Section K have been removed.

4.

a. The provision has been removed from the parameter box in the monitoring plan.

b. The provision has been removed from the parameter box in the monitoring plan.

c. The provision has been removed from the parameter box in the monitoring plan.

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Option B is used to determine fNRB. Since no national value exists for Rwanda, the global default is applied. Since Option B is used, the equations to calculate fNRBy are not included in the PoA.

5. The referenced equation was an example only and was not meant to be used for monitoring. It has been removed to avoid confusion.

The following information was added to the sampling plan

- Sample size is in part driven by the expected value of the parameter, which is determined using the project participants' or the coordinating/managing entity's knowledge and experience. Expected variance (or standard deviation) for that measure in the sample, based on the results from similar studies including other similar CDM project activities, previous monitoring periods, pilot studies, or from the project planner's own knowledge of the data. (para 13 in sampling standard).
- If the sample size calculation returns a value of less than 30 samples, a minimum sample size of 30 shall be chosen when the parameter of interest is a proportion.¹⁵ If the parameter of interest is a numeric mean value (i.e. not a proportion or percentage) the Student's t distribution shall be used if the resulting sample size is less than 30. (para 14 in sampling standard).

Documentation provided by CME

Revised PoA-DD

DOE assessment	Date: <u>31/01/2021</u>
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2. CME has submitted revised PoA-DD confirming that in case of small scale CPAs, additionality will be proved using para 11 of Tool 21, version 13.1

3. The project device will use only fuelwood. Hence all the irrelevant parameters have been deleted in the PoA-DD and also the FVR.

4. The provision that value established in the first CPA may be used in subsequent CPAs located in similar country/region for all the parameters has been removed in the revised PoA-DD.

For fNRB parameter, in absence of country specific value, CME has chosen to apply global default value of 0.3 in line with the applied methodology.

2-5. Sample size calculation provide as an example has been deleted in the revised PoA-DD to avoid any confusion.

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
-			

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.

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