




**Validation report form for post-registration changes for
CDM programme of activities
(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)	Clean Cook Stoves in Sub-Saharan Africa by ClimateCare Limited UNFCCC Ref. No.: 8438
Process track	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of PoA
Version number of the validation report on PoA PRCs	04
Completion date of the validation report on PoA PRCs	02/11/2018
Version number of PoA-DD applicable to this validation report	10
Type(s) of PoA PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the programme design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
Coordinating/managing entity	ClimateCare Limited
Host Parties	Ghana, Kenya
Applied methodologies and standardized baselines	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 04)
Mandatory sectoral scopes linked to the applied methodologies	03
Conditional sectoral scopes linked to the applied methodologies, if applicable	N/A
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 on PoA PRCs	Vikash Kumar Singh, Compliance Officer 

SECTION A. Executive summary

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The Project Participant has appointed Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the Post Registration Changes (PRC) to the CDM Programme of Activities (PoA) “Clean Cook Stoves in Sub-Saharan Africa by ClimateCare Limited” (hereafter “PoA”).

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 Registered PoA-DD (part I and part II) of the PoA to confirm the post registration changes. This report summarises the post registration changes of the project with respect to requirements of VVS for PoAs (version 01.0). This report contains the findings and resolutions from the validation and a validation opinion.

The PoA involves dissemination of improved cooking stoves (ICS) to household users in Ghana and Kenya. The PoA saves greenhouse gas emissions by replacing baseline inefficient stoves with improved cookstoves.

Scope:

The scope of the PRC validation is defined as an independent and objective review of the revised PoA-DD to verify the impact of proposed revision of the PoA-DD.

Validation methodology and process

The validation has been performed as described in the VVS for PoA (version 01.0) and constitutes the following steps:

- Review of the approved revised PoA-DD (version 07; Dated: 23/03/2018) /B02/;
- Desk review of relevant documents;
- Interview with representatives of the CME.

The summary of proposed changes is as below;

Sl. No.	Corrections
1.	Editorial corrections / revisions in various sections of the PoA-DD
2.	Deletion in section I.2 of the PoA-DD, “Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)”
Sl. No.	Permanent changes to monitoring Plan
1.	Monitoring frequency of the parameters “Bold”, “DOy” and “ η_{new} ” have been changed to “at least biennially”
2.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied
3.	Possibility of cross CPA sampling stated consistently in the PoA-DD

The description in the revised PoA-DD (version 10; dated 01/11/2018) /02/ meets all relevant UNFCCC requirements for the CDM PoA-DD and correctly applies the selected baseline and monitoring methodology /B03/.

The version of the templates for PoA-DD was the latest version. CC IPL confirms that the revised PoA-DD as provided by the CME, complies with the instructions for completion of the PoA-DD. Furthermore, CC IPL through review of revised PoA-DD /02/ confirms that the information included in the new form(s) is materially the same as the information in the approved revised registered PoA-DD.

The Validation team confirms the contractual relationship signed on 12/09/2018 in between the DOE, Carbon Check (India) Private Ltd., and the CME, ClimateCare Limited. The team assigned to

the validation meets the CCIPL's internal procedures including the UNFCCC requirements for the team composition and competence. The validation team has conducted a thorough contract review as per UNFCCC and Carbon Check's procedures and requirements.

The report is based on the assessment of the revised PoA-DD undertaken through application of standard auditing techniques including but not limited to document reviews and stakeholder interviews, review of the applicable/applied methodology and its underlying formulae and calculations.

This report contains the findings and resolutions from the validation and a validation opinion on the proposed post-registration changes thus confirming the revised project design as document is sound and reasonable and meets the stated requirements and identified criteria.

The validation confirms that the implementation of the post registration changes is in line with the applied methodology and all other applicable tools and guidance.

This report is the combined assessment opinion for all the changes that are proposed in the PoA-DD and request is submitted for prior approval by CDM EB.

SECTION B. Validation team, technical reviewer and approver

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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

B.2. Technical reviewer and approver of the validation report on PoA PRCs

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. Document review

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The validation was performed primarily based on the review of the revised PoA-DD and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology. Documents reviewed or referenced during the verification are listed in Appendix 3 below.

C.2. On-site inspection

No on-site visit was conducted.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Owino	Tom	ClimateCare	18/09/2018 (Via Skype)	<p>Discussion on proposed Post-Registration changes which included discussion on the following aspects:</p> <ul style="list-style-type: none"> • Type of PRC as allowed by CDM requirements • The possible effects of PRC on various aspects of registered PoA 	Sanjay Kumar Agarwalla
2.	Obare	Joash	ClimateCare	18/09/2018 (Via Skype)	<p>Discussion on proposed Post-Registration changes which included discussion on the following aspects:</p> <ul style="list-style-type: none"> • Type of PRC as allowed by CDM requirements • The possible effects of PRC on various aspects of registered PoA 	Sanjay Kumar Agarwalla

C.4. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PoA-DD form	01	-	-
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	-	-	-
Corrections	01	-	-
Inclusion of monitoring plan	-	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other applied standards or tools	02	-	-
Changes to the programme design	-	-	-
Changes specific to afforestation and reforestation activities	-	-	-
Others (please specify) (against clarification request from UNFCCC)	-	01	-
Total	04	-	-

SECTION D. Validation findings**D.1. Compliance with the PoA-DD form**

Means of validation	DR, I
Findings	CL 01 had been raised and successfully closed. Please refer to Appendix 4 for detailed closure of the above CL.
Conclusion	<p>CCIPL confirms the following:</p> <ul style="list-style-type: none"> The compliance of the revised PoA-DD /02/ (both in tracked-change and clean versions) with the valid version of the applicable PoA-DD form and the instructions therein for filling the form. CME has used the latest version of the CDM-PoA-DD form and assessment team confirms that the information transferred to the PoA-DD are materially the same as that in the approved revised PoA-DD /B02/. <p>The validation team confirms that the requirements of the CDM-PoA-DD-FORM, version 08.1 /B04/ filling guidelines and VVS for PoAs (version 01.0) /B01-1/ have been appropriately met.</p>

D.2. Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.3. Corrections

Means of validation	DR, I						
Findings	CL 03 had been raised in this regard and successfully closed. Please refer to Appendix 4 for detailed closure of the above CL.						
Conclusion	<p>Following corrections have been made in the registered PoA-DD:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Corrections</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Editorial corrections / revisions in various sections of the PoA-DD</td></tr> <tr> <td>2.</td><td>Deletion in section I.2 of the PoA-DD, "Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)"</td></tr> </tbody> </table> <p>Please refer to Table 1 of Appendix 5 of this report for detailed assessment of the above documented changes.</p> <p>Based on the review of PoA-DD /02/ and interview with CME representative, the validation team has accepted all the proposed corrections in the PoA-DD in accordance with requirements of §256, 257 and 258 of VVS for PoAs, version 01.0 /B01-1/ and confirms that the corrected information is an accurate reflection of actual project information and the corrected parameters are in accordance with the applied methodology, the monitoring plan. All the proposed editorial corrections do not affect the design of the PoA and the accuracy or correctness of the ER calculation.</p>	Sl. No.	Corrections	1.	Editorial corrections / revisions in various sections of the PoA-DD	2.	Deletion in section I.2 of the PoA-DD, "Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)"
Sl. No.	Corrections						
1.	Editorial corrections / revisions in various sections of the PoA-DD						
2.	Deletion in section I.2 of the PoA-DD, "Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)"						

D.4. Inclusion of monitoring plan

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.5. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other applied standards or tools

Means of validation	DR, I								
Findings	CL 02 and CL 04 had been raised in this regard and successfully closed. Please refer to Appendix 4 for detailed closure of the above CLs.								
Conclusion	<p>Following permanent changes have been made to the registered monitoring plan of the registered PoA-DD:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Permanent changes to monitoring Plan</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Monitoring frequency of the parameters “Bold”, “DOy” and “η_{new}” have been changed to “at least biennially”</td></tr> <tr> <td>2.</td><td>90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied</td></tr> <tr> <td>3.</td><td>Possibility of cross CPA sampling stated consistently in the PoA-DD</td></tr> </tbody> </table> <p>Please refer to Table 2 of Appendix 5 of this report for detailed assessment of the above documented changes.</p> <p>The validation team confirms that the above permanent changes in monitoring plan comply with:</p> <ul style="list-style-type: none"> The requirements in the CDM PS for PoAs, version 01.0 /B01-2/ thereby complying paragraph 265 of VVS for PoAs, version 01.0 /B01-1/; The applied methodology AMS II.G, version 04 /B03/, “Guideline: Sampling and surveys for CDM project activities and programmes of activities” version 02.0 /B07/ and “Standard: Sampling and surveys for CDM project activities and programmes of activities”, version 03.0 /B06/ and the changes do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan thereby complying paragraph 266 of VVS for PoAs, version 01.0 /B01-1/; In accordance with requirements of §267 of VVS for PoAs, version 01.0 /B01-1/, the validation team confirms that these permanent changes are unlikely to lead to a reduction in the accuracy of the calculation of emission reductions. <p>Furthermore, in accordance with §268 of VVS for PoAs, version 01.0 /B01-1/, the validation team concludes that the permanent changes comply with the relevant requirements in the CDM PS for PoAs, version 01.0 /B01-2/.</p>	Sl. No.	Permanent changes to monitoring Plan	1.	Monitoring frequency of the parameters “Bold”, “DOy” and “ η_{new} ” have been changed to “at least biennially”	2.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied	3.	Possibility of cross CPA sampling stated consistently in the PoA-DD
Sl. No.	Permanent changes to monitoring Plan								
1.	Monitoring frequency of the parameters “Bold”, “DOy” and “ η_{new} ” have been changed to “at least biennially”								
2.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied								
3.	Possibility of cross CPA sampling stated consistently in the PoA-DD								

D.6. Changes to the programme design

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.7. Changes specific to afforestation and reforestation activities

Means of validation	N/A
Findings	N/A
Conclusion	N/A

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 Project Participant has appointed Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Post Registration Changes “Corrections; Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline” to the CDM Programme of Activities “Clean Cook Stoves in Sub-Saharan Africa by ClimateCare Limited” (hereafter “PoA”).

CCIPL confirms that the proposed changes do not fall under “Appendix 2. Indicative list of post-registration changes that may be suitable for approval under the issuance track” of CDM PS for PoAs, version 01.0 /B01-2/ and hence it requires prior approval by the Board.

CCIPL based on review of the revised PoA-DD /02/ and interview with the CME confirms that the proposed corrections

- Is an accurate reflection of actual project or programme information; and/or
- Are in accordance with the applied methodologies, the registered monitoring plan.

The proposed permanent changes are unlikely to lead to a reduction in the accuracy of the calculation of emission reductions. The validation team confirms that the revised monitoring plan does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered PoA-DD.

The version of the templates for PoA-DD was the latest version. This change was assessed to confirm that the revised PoA-DD comply with the completing instructions of the CDM-POA-DD-FORM. CCIPL confirms the following:

- a) The compliance of the revised PoA-DD (both in track-change and clean versions) with the valid version of the applicable CDM-PoA-DD-FORM and the instructions therein for filling out the form.
- b) Assessment team confirms that the information transferred to the revised PoA-DD is materially the same as that in the approved revised PoA-DD /B02/.

The validation team can confirm that the post registration changes carried out to PoA-DD is in accordance with the requirements of UNFCCC. The DOE therefore accepts the changes and request for the approval of “Corrections; Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline”.


During the course of validation four (04) CLs were raised and all of them have been successfully closed by the CME.

Carbon Check India Private Ltd. concludes the validation with a positive opinion that the Programme of Activities “Clean Cook Stoves in Sub-Saharan Africa by ClimateCare Limited”, meets all applicable requirements of UNFCCC for post-registration changes and therefore recommends for the approval of “Corrections; Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline” made to the PoA-DD.

Appendix 1. Abbreviations

Abbreviations	Full texts
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CER	Certified Emission Reduction
CL	Clarification Request
CME	Co-ordinating and Managing entity
CPA	Component Project Activity
CPA-DD	Component Project Activity Design Document
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
DR	Document review
DOE	Designated Operational Entities
EB	CDM Executive Board
EF	Emission Factor
EI	External individual
FA	Final Approval
FAR	Forward Action Request
FVR	Final verification Report
GHG	Greenhouse gas(es)
GWh	Giga Watt Hour
I	Interview
IPCC	Intergovernmental Panel on Climate Change
IR	Internal resource
MP	Monitoring Period
MWh	Mega Watt Hour
MR	Monitoring Report
PoA	Programme of Activities
PoA-DD	Programme of Activities Design Document
PP	Project Participant
OSV	On Site Visit
QC/QA	Quality control /Quality assurance
RMP	Revised Monitoring Plan
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
WBT	Water boiling test

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Sanjay Agarwalla

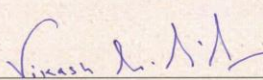
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For following functions:

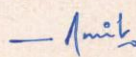
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Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

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
24/12/2017

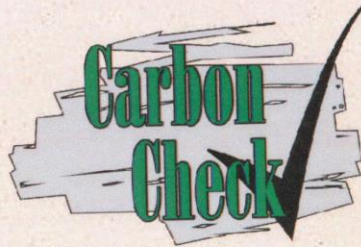
Valid Till
23/12/2018

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

¹India

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Carbon Check (India) Private Ltd.

Amit Anand

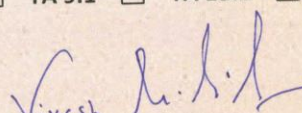
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

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 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

Date of Approval
24/12/2017

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¹India, South Africa

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	Climate Care	1. Revised PoA-DD 2. Revised PoA-DD	Version 08; Dated: 06/09/2018 Version: 09; Dated: 16/10/2018	CME
/02/	Climate Care	Final revised PoA-DD (in track change mode and clean mode)	Version: 10; Dated: 01/11/2018	CME
/B01/	UNFCCC	1. CDM VVS for PoA (Version 01.0). 2. CDM PS for PoA (Version 01.0) 3. CDM PCP for PoA (Version 01.0)	http://cdm.unfccc.int/	Others
/B02/	UNFCCC	1. PoA-DD (version 07; Dated: 23/03/2018) and the corresponding validation report for the PoA 8438 2. Previous Verifications of the PoA 8438	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	AMS-II.G. - "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 04)	http://cdm.unfccc.int/	Others
/B04/	UNFCCC	Programme design document form for CDM programmes of activities (CDM-PoA-DD-FORM), (Version 08.1)	http://cdm.unfccc.int/	Others
/B05/	UNFCCC	Glossary of CDM Terms, version 07.0	http://cdm.unfccc.int/	Others
/B06/	UNFCCC	Standard: Sampling and surveys for CDM project activities and programmes of activities (version 03.0)	http://cdm.unfccc.int/	Others
/B07/	UNFCCC	Guideline: Sampling and surveys for CDM project activities and programmes of activities ((version 02.0)	http://cdm.unfccc.int/	Others

Appendix 2. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this validation

CL ID	01	Section no.	D.1	Date: 18/09/2018
Description of CL				
All the changes done in the PoA-DD with respect to the earlier version (version 07) of the PoA-DD are not visible in track change in the current PoA-DD.				
CME's response				Date: 18/09/2018
All track changes done in the PoA-DD version 08 with respect to the earlier version (version 07) have been made visible.				
Documentation provided by CME				
Revised PoA-DD				
DOE assessment				Date: 19/09/2018
CME has submitted revised PoA-DD with all changes visible in track change mode as compared to the earlier version available on UNFCCC web site.				
Hence the CL is closed.				
CL ID	02	Section no.	D.5	Date: 18/09/2018
Description of CL				
For the parameters "Annual energy saving per appliance" and "Annual number of appliances to reach small scale threshold", CME has changed the monitoring frequency from Annual to Continuous. Clarification is requested.				
CME's response				Date: 18/09/2018
The CME has changed the monitoring frequency of the two parameters to "At least biennial" in line with applied methodology.				
Documentation provided by CME				
Revised PoA-DD				
DOE assessment				Date: 19/09/2018
The stated two parameters are calculated ones with the monitored parameters. Hence the monitoring frequency of these two parameters have been aligned with that of the other related parameters (at least annually) which is deemed acceptable.				
CL is closed.				
CL ID	03	Section no.	D.3	Date: 18/09/2018
Description of CL				
In the approved revised PoA-DD (version 07), the stoves were classified according to the households, commercial stove users and institutional stove users which has now been changed to small, medium and large. Clarification is requested.				
CME's response				Date: 18/09/2018
The CME has reversed the changes made and retained the classification as they were at registration of the PoA in version 08 of the PoA-DD.				
Documentation provided by CME				
-				
DOE assessment				Date: 19/09/2018
CME has submitted the PoA-DD as per the original approved revised PoA-DD (without any changes with respect to the clarification raised).				
CL is closed.				
CL ID	04	Section no.	D.5	Date: 18/09/2018
Description of CAR				

The description of sampling plan provided in section I.7.2 of the PoA-DD is very inconsistent with respect to the across CPA sampling approach. In the light of the above observation, PP shall clarify whether this PoA proposes to use the across CPA sampling approach or not and the inconsistencies shall be addressed accordingly.	
CME's response	Date: 18/09/2018
Cross CPA sampling will be applicable in the PoA in cases where more than one CPA is implemented by same PAI and distributes similar types of efficient cook stoves within the same national boundary.	
Documentation provided by CME	
Revised PoA-DD	
DOE assessment	Date: 19/09/2018
In version 07 of the approved revised PoA-DD in section I.7.2 (page 44) it was already stated <i>"As the PoA progresses and the number of CPAs increases, the sampling plan can apply to a group of CPAs as referred to in paragraph 20 of the Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities, Vers 03.0 (EB 69, Annex 4). This will be applicable to CPAs that have installed similar types of efficient cook stoves which are sold within the same national boundary. In such an instance a 95/10 confidence/precision will be applied for the sample size calculation"</i> .	
In the revised PoA-DD, the CME has consistently stated the possibility of cross CPA sampling which is deemed acceptable.	
Hence the CL is closed.	

Table 2. CARs from this validation

CAR ID	01	Section no.	-	Date: 16/10/2018
Description of FAR				
Issue 1. Project standard for PoA V1.0 paragraph 274 requires that for an included small scale CPA, the CME shall demonstrate that the scale of the activities belonging to the same small-scale project type remained under the limit of that type every year during the crediting period or if during any year of its crediting period, the scale goes beyond the limit of that type, cap the GHG emission reductions that are claimed for that year at the amount calculated with the limit of its type. The DOE has validated that the monitoring frequency of the parameters "Annual energy saving per appliance" and "annual number of appliances to reach small scale threshold" in the revised monitoring plan is changed to "at least biennially" from "annually". The DOE is requested to clarify how it has validated that the revised monitoring plan is in compliance with the relevant aforementioned PS requirements, where the demonstration of small scale threshold needs to be done every year.				
CME's response				Date: 16/10/2018
The frequency of monitoring has been updated to annual for both parameters "Annual energy saving per appliance" and "annual number of appliances to reach small scale threshold". The two parameters are calculated parameters which are calculated annually using values which are monitored at least biennially.				
Documentation provided by CME				
Revised PoA-DD				
DOE assessment				Date: 17/10/2018
CME has revised back the frequency of monitoring parameters "Annual energy saving per appliance" and "annual number of appliances to reach small scale threshold" as annual. CME has also clarified the details of the calculation procedure for these two parameters in the revised PoA-DD. It may be noted that "Annual energy saving per appliance" is a calculated parameter using the values of fuel saved per appliance per year and the NCV of the fuel using the following steps; Bold, $\text{appliance} \times (1 - (\eta_{\text{old}}/\eta_{\text{new}})) \times N_y \times \text{NCV}_{\text{charcoal}} \times 3.6$ i.e. the fuel saved per appliance in tonnes/year is multiplied by NCV of charcoal in TJ/tonne and conversion factor to GWh. In this calculation, the monitored parameter is the stove efficiency and rest of the parameters are fixed. This calculation results in annual energy saving. Hence inspite of the monitoring frequency of the directly monitored being annual or biennial, the resultant value will be energy savings per annum only. Similar is the case with the parameter "annual number of appliances to reach small scale threshold" as this is calculated by dividing the threshold energy limit for small scale project with the annual energy savings per stove as obtained above. 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
-				

Appendix 4. Assessment of proposed Post Registration Changes

Table 1: Corrections

Sl. No.	Corrections in PoA-DD	Assessment By DOE
1.		
1.	Editorial corrections / revisions in various sections of the PoA-DD	<p>Based on the review of PoA-DD /02/ and interview with CME representative, the validation team has accepted all the proposed corrections in the PoA-DD in accordance with requirements of §256, 257 and 258 of VVS for PoAs (version 01.0) /B01-1/ and confirms that the corrected information is an accurate reflection of actual project information and the corrected parameters are in accordance with the applied methodology, the monitoring plan. All the proposed editorial corrections do not affect the design of the PoA and the accuracy or correctness of the ER calculation.</p> <p>The validation team confirms the compliance of section 9.3.1 of VVS for PoAs, (version 01.0) /B01-1/.</p>
2.	Deletion in section I.2 of the PoA-DD, "Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)"	<p>In section I.2 of the PoA-DD version 07, dated 23/03/2018 /B02/, the parameter "<i>Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass ($f_{NRB,y}$)</i>" was stated under the paragraph "On annual basis, the following will be determined through sampling and testing in accordance with the "Standard for sampling and surveys for CDM project activities and Programme of Activities", Version 03.0 and the methodology AMS-II.G, Version 04". But this parameter is not monitored through sampling and testing. Hence the deletion of this parameter in the above mentioned section of the PoA-DD is deemed to be appropriate and acceptable to validation team. CME has stated the reason for the above change as "To ensure consistency between the PoA-DD and the monitoring plan, since this parameter is not monitored through sampling and testing but is calculated, where national default values of fraction of non-renewable biomass do not exist" which is deemed acceptable to the validation team.</p> <p>The validation team confirms the compliance of section 9.3.1 of VVS for PoAs (version 01.0) /B01-1/.</p>

Table 2: Revision in Monitoring Plan

Sl. No.	Generic CPA-DD	Assessment by DOE
1.	Monitoring frequency of the parameters "Bold", "DOy" and " η_{new} " have been changed to "at least biennially"	<p>In the revised PoA-DD, CME has submitted the monitoring frequency of the monitoring parameters ("Bold", "DOy" and "η_{new}") consistently as "at least biennially" which comply with paragraph 15 of the applied methodology AMS II.G, v(ersion 04 /B03/ (<i>Monitoring shall consist of checking the efficiency of all appliances or a representative sample thereof, at least once every two years (biennial).....</i>)) and also</p>

		<p>paragraph 16 (<i>Monitoring shall also consist of checking of all appliances or a representative sample thereof, at least once every two years (biennial)....</i>). CME has stated the reason for the change in the frequency of these monitoring parameters as “At least biennially’ monitoring will enable both annual and biennial verification, depending on the project circumstances. This will ensure cost-effectiveness of the monitoring and verification processes in future” which is deemed acceptable to the validation team.</p> <p>This permanent change in monitoring plan is deemed acceptable to the validation team and it is confirmed that the change:</p> <ul style="list-style-type: none"> • Complies with the requirements as stated under section 9.3.4 of the PS for PoAs, (version 01.0) /B01-2/. • Complies with the requirements of applied methodology (AMS II.G, version 04) /B03/ • Does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.
2.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied	<p>In the revised PoA-DD for sampling of the monitoring parameters, the CME has consistently stated the application of 90/10 confidence precision for annual monitoring, 95/10 for biennial monitoring and 95/10 for cross CPA monitoring. This is deemed acceptable in line with the paragraph 21 of the applied methodology AMS II.G, version 04 /B03/ and paragraphs 10 and 20 of the “Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities, Version 3.0 /B06/.</p> <p>The CME has stated the reason for the above revision in monitoring plan as “To ensure consistency within the PoA-DD and the ‘CDM project standard for programmes of activities’, the, the sampling precision has been adjusted from 90/10 to 95/10 where biennial monitoring is applied. This aligns with the ‘Standard for sampling and surveys for CDM project activities and programme of activities’” which is deemed acceptable to the validation team.</p> <p>This permanent change in monitoring plan due to change is deemed acceptable to the validation team and it is confirmed that the change:</p> <ul style="list-style-type: none"> • Complies with the requirements as stated under section 9.3.4 of the PS for PoAs (version 01.0) /B01-2/. • Complies with the requirements of applied methodology (AMS II.G, version 04) /B03/ and Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities (version 03.0) /B06/. • Does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.
3.	Possibility of cross CPA sampling stated consistently in the PoA-DD	<p>In section I.7.2 of the PoA-DD version 07, dated 23/03/2018 /B02/, it was stated “As the PoA progresses and the number of CPAs increases, the sampling plan can apply to a group of CPAs as referred to in paragraph 20 of the Standard for Sampling and</p>

		<p><i>Surveys for CDM Project Activities and Programme of Activities, Vers 03.0 (EB 69, Annex 4). This will be applicable to CPAs that have installed similar types of efficient cook stoves which are sold within the same national boundary. In such an instance a 95/10 confidence/precision will be applied for the sample size calculation In the revised PoA-DD, CME has consistently stated the possibility of cross CPA sampling for the cases where CPAs have installed similar types of efficient cook stoves sold within the same national boundary".</i> The reason for the above change has been stated by the CME as "To ensure consistency within the PoA-DD and paragraph 20 of the "Standard for Sampling and Surveys for CDM project activities and programme of activities, Version 03.0", the applicable sampling precision has been clarified as 95/10 where cross-CPA sampling is applied" which is deemed acceptable to the validation team.</p> <p>In the revised PoA-DD, CME has consistently stated the possibility of cross CPA sampling. This is deemed acceptable and in compliance with the "Standard: Sampling and surveys for CDM project activities and programmes of activities" (version 03.0) /B06/ and "Guidelines for Sampling and surveys for CDM project activities and programmes of activities" (version 02.0) /B07/.</p> <p>The validation team confirms that the revised (i.e., correction by maintaining consistency in the PoA-DD) sampling plan and therefore the monitoring plan does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered PoA-DD.</p>
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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	29 December 2017	Revision to align with the requirements of the “CDM validation and verification standard for programme of activities” (version 01.0).
01.0	5 June 2015	Initial publication.

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