




## Validation report form for post-registration changes for component project activities

(Version 01.0)

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

### BASIC INFORMATION

<b>Title and UNFCCC reference number of the component project activity (CPA)</b>	8438-0001: CookClean Ghana Limited —CPA01 8438-0002: CookClean Ghana Limited —CPA02
<b>Version number of the validation report on CPA PRCs</b>	01
<b>Completion date of the validation report on CPA PRCs</b>	28/12/2018
<b>Version number of PoA-DD and CPA-DD applicable to this validation report</b>	PoA-DD (Version 10: Dated: 01/11/2018) CPA 1: 8438-0001 (Version 05; Dated: 26/12/2018) CPA 2: 8438-0002 (Version 02; Dated: 26/12/2018)
<b>Title and UNFCCC ref. no. of the registered PoA into which the CPA is included</b>	Clean Cook-Stoves in Sub-Saharan Africa by ClimateCare Limited UNFCCC Ref. No.: 8438
<b>Type(s) of CPA PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
<b>Coordinating/managing entity</b>	ClimateCare Limited
<b>Host Parties</b>	Ghana
<b>Applied methodologies and standardized baselines</b>	AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 04.0)
<b>Mandatory sectoral scopes linked to the applied methodologies</b>	3
<b>Conditional sectoral scopes linked to the applied methodologies, if applicable</b>	Not applicable
<b>Name and UNFCCC reference number of the DOE</b>	E-0052: Carbon Check (India) Private Ltd.
<b>Name, position and signature of the approver of the validation report on CPA PRCs</b>	Amit Anand, CEO 

**SECTION A. Executive summary**

&gt;&gt;

The Coordinating/Managing Entity (CME) has appointed Carbon Check (India) Private Ltd. (CC IPL), to perform the validation of the Post Registration Changes to the included CPAs “CookClean Ghana Limited —CPA01” and “CookClean Ghana Limited —CPA02” (hereafter “CPAs”) /B02/ in the approved revised PoA “Clean Cook-Stoves in Sub-Saharan Africa by ClimateCare Limited” (hereafter “PoA”) /B01/.

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 to confirm the post registration changes of the CPAs. This report summarises the post registration changes of the project with respect to requirements of CDM VVS for PoAs (version 01.0) /B03-1/. This report contains the findings and resolutions from the validation and a validation opinion.

The CPAs in the PoA involve dissemination of improved cooking stoves (ICS) to household users in Ghana. The CPAs save greenhouse gas emissions by replacing baseline stoves with improved cookstoves.

**Scope:**

The scope of the PRC validation is defined as an independent and objective review of the revised CPA-DDs /01/ which include minor corrections and permanent changes to the registered monitoring plan of the CPAs in line with the approved revised PoA /B01/.

**Validation methodology and process**

The validation has been performed as described in the CDM VVS for PoAs (version 01.0) /B03-1/ and constitutes the following steps:

- Review of the approved revised PoA-DD /B01/;
- Review of the included / registered CPA-DDs /B02/;
- Review of the revised CPA-DDs /01/;
- Desk review of relevant documents;
- Interview with representatives of the CME

**Conclusion**

This report is the assessment opinion of the proposed PRC in the CPA-DDs /01/. The proposed PRC include correction to the CPA-DDs /01/ to fulfil the template guidelines and permanent changes to the registered monitoring plan. The validation team confirms that the proposed changes to the included CPA-DDs /01/ are in compliance with the approved revised PoA-DD /B01/ and do not require any changes to the PoA. Also, the proposed changes meet all relevant requirements of UNFCCC. In line with §228 and 251 of CDM PS for PoAs (version 01.0) /B03-2/, the proposed changes to the CPAs do not require prior approval. Thus, these changed are being notified to the UNFCCC secretariat as per §171 of the CDM PCP for PoAs (version 01.0) /B03-3/.

**SECTION B. Validation team, technical reviewer and approver**

&gt;&gt;

**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/ Technical Expert	IR	Agarwalla	Sanjay	CC IPL	X	NA	X	X

**B.2. Technical reviewer and approver of the validation report on CPA 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	Anand	Amit	CC IPL

**SECTION C. Means of validation****C.1. Document review**

&gt;&gt;

The validation was performed primarily based on the review of the revised CPA-DDs /01/ 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	28/12/2018 (Via Skype)	<p>Discussion on proposed Post-Registration changes which included discussion on the following aspects:</p> <ul style="list-style-type: none"> <li>• Type of PRC as allowed by CDM requirements</li> <li>• The possible effects of PRC on various aspects of the included CPAs</li> </ul>	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 CPA-DD form	05	01	-
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of monitoring plan	-	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	-	-	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
<b>Total</b>	<b>05</b>	<b>01</b>	<b>-</b>

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

<b>Means of validation</b>	DR, I
<b>Findings</b>	-
<b>Conclusion</b>	<p>CC IPL confirms the following:</p> <ul style="list-style-type: none"> <li>• The compliance of the revised CPA-DDs /01/ (both in tracked-change and clean versions) with the valid version of the applicable CPA-DD form and the instructions therein for filling the form. This complies to the requirement of §247 of CDM VVS for PoAs (version 01.0) /B03-1/.</li> <li>• CME has used the latest version of the CDM-CPA-DD-FORM and assessment team confirms that the information transferred to the latest</li> </ul>

	<p>version of the CPA-DDs /01/ is materially the same as that in the included CPA-DDs /B02/. This complies to the requirement of § 248 of CDM VVS for PoAs (version 01.0) /B03-1/.</p> <p>The validation team confirms that the requirements of the CDM-CPA-DD FORM /B05/ filling guidelines and CDM VVS for PoAs (version 01.0) /B03-1/ have been appropriately met.</p>
--	---

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

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

## D.3. Corrections

<b>Means of validation</b>	DR, I						
<b>Findings</b>	<p>CLs: 01, CL 02, CL 03, CL 04 and CL 05</p> <p>CAR: 01</p> <p>Please refer to Appendix 4 for the closure of validation findings.</p>						
<b>Conclusion</b>	<p>The CPA-DDs have been revised using the latest available CDM-CPA-DD FORM template /B05/ on UNFCCC website. In order to meet the template guidelines, corrections have been made in the revised CA-DDs /01/. The validation team confirms that these changes do not change the project description or design. The proposed corrections in the revised CPA-DDs are accurate reflection of the actual situation.</p> <p>Following corrections have been made in the registered CPA-DDs:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Corrections</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Changes in the CPA-DDs due to change in version of the CDM-CPA-DD template (i.e. adopting the latest format of the CDM-PoA-DD-FORM, Version 08.1)</td></tr> <tr> <td>2.</td><td>Deletion in section B.1 of the CPA-DDs, "Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass (<math>f_{NRB,y}</math>)"</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 above, the validation team has accepted all the proposed corrections in the CPA-DDs /01/ in accordance with requirements of §256, §257 and §258 of CDM VVS for PoAs (version 01.0) /B03-1/ and confirms that the corrected information is an accurate reflection of actual project information.</p>	Sl. No.	Corrections	1.	Changes in the CPA-DDs due to change in version of the CDM-CPA-DD template (i.e. adopting the latest format of the CDM-PoA-DD-FORM, Version 08.1)	2.	Deletion in section B.1 of the CPA-DDs, "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.	Changes in the CPA-DDs due to change in version of the CDM-CPA-DD template (i.e. adopting the latest format of the CDM-PoA-DD-FORM, Version 08.1)						
2.	Deletion in section B.1 of the CPA-DDs, "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. Changes to the start date of the crediting period

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

**D.5. Inclusion of monitoring plan**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

**D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools**

<b>Means of validation</b>	DR, I										
<b>Findings</b>	-										
<b>Conclusion</b>	<p>Following permanent changes have been made to the registered monitoring plan of the included CPA-DDs /01/:</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>The monitoring parameter, Quantity of charcoal used in the absence of the project activity per appliance (<b>B<sub>old</sub></b>, <b>appliance</b>, <b>survey</b>) has been moved from being a monitored parameter (section B.5.1) to parameter fixed ex-ante (section B.4.2)</td></tr> <tr> <td>2.</td><td>Monitoring frequency of the parameters “Annual energy saving per appliance”, “Annual number of appliances to reach small scale threshold” have been corrected to “annual”.</td></tr> <tr> <td>3.</td><td>Monitoring frequency of the parameters “<b>B<sub>old</sub></b>”, “<b>DO<sub>y</sub></b>” and “<b>η<sub>new</sub></b>” have been changed to “at least biennially”.</td></tr> <tr> <td>4.</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> </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"> <li>• The requirements in the CDM PS for PoAs (version 01.0) /B01-2/ thereby complying with §265 of VVS for PoAs (version 01.0) /B01-1/;</li> <li>• The applied methodology AMS II.G (version 04.0) /B03/, “Guideline: Sampling and surveys for CDM project activities and programmes of activities” (version 04.0) /B08/ and “Standard: Sampling and surveys for CDM project activities and programmes of activities”, (version 07.0) /B07/ 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 with §266 of CDM VVS for PoAs (version 01.0) /B01-1/;</li> <li>• 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.</li> </ul> <p>The above proposed changes in the monitoring plan are in line with the approved revised PoA-DD /B01/. In line with §228 and 251 of CDM PS for PoAs (version 01.0) /B03-2/, the proposed changes to the CPA do not require prior approval. Thus, these changes are being notified to the UNFCCC secretariat as per §171 of the CDM PCP for PoAs (version 01.0) /B03-3/.</p>	Sl. No.	Permanent changes to monitoring Plan	1.	The monitoring parameter, Quantity of charcoal used in the absence of the project activity per appliance ( <b>B<sub>old</sub></b> , <b>appliance</b> , <b>survey</b> ) has been moved from being a monitored parameter (section B.5.1) to parameter fixed ex-ante (section B.4.2)	2.	Monitoring frequency of the parameters “Annual energy saving per appliance”, “Annual number of appliances to reach small scale threshold” have been corrected to “annual”.	3.	Monitoring frequency of the parameters “ <b>B<sub>old</sub></b> ”, “ <b>DO<sub>y</sub></b> ” and “ <b>η<sub>new</sub></b> ” have been changed to “at least biennially”.	4.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied.
Sl. No.	Permanent changes to monitoring Plan										
1.	The monitoring parameter, Quantity of charcoal used in the absence of the project activity per appliance ( <b>B<sub>old</sub></b> , <b>appliance</b> , <b>survey</b> ) has been moved from being a monitored parameter (section B.5.1) to parameter fixed ex-ante (section B.4.2)										
2.	Monitoring frequency of the parameters “Annual energy saving per appliance”, “Annual number of appliances to reach small scale threshold” have been corrected to “annual”.										
3.	Monitoring frequency of the parameters “ <b>B<sub>old</sub></b> ”, “ <b>DO<sub>y</sub></b> ” and “ <b>η<sub>new</sub></b> ” have been changed to “at least biennially”.										
4.	90/10 when annual monitoring is applied for each CPA separately and 95/10 when biennial or cross CPA sampling is applied.										

**D.7. Changes to the project design**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

**D.8. Changes specific to afforestation and reforestation project activities**

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

**SECTION E. Internal quality control**

&gt;&gt;

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**

&gt;&gt;

The CME has appointed Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the following Post Registration Changes to the included CPAs "CookClean Ghana Limited — CPA01" and "CookClean Ghana Limited — CPA02" (hereafter "CPAs") /B02/ in the approved revised PoA "Clean Cook-Stoves in Sub-Saharan Africa by ClimateCare Limited" (hereafter "PoA") /B01/:

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

CC IPL based on review of the revised CPA-DDs /01/ and interview with the CME confirms that the proposed corrections

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

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 approved revised PoA-DD /B01/.

The version of the template for CPA-DDs /01/ was updated to the latest version of the template. This change was assessed to confirm the compliance of filling guideline and CC IPL confirms that the revised CPA-DDs /01/, as provided by the CME, comply with the filling instructions of the CDM-CPA-DD-FORM /B05/. CC IPL confirms the following:

- a) The compliance of the revised CPA-DDs /01/ (both in tracked-change and clean versions) with the valid version of the applicable CDM-CPA-DD-FORM /B05/ and the instructions therein for filling out the form.
- b) Since the CME has used the latest version of the CDM-CPA-DD-FORM /B05/, assessment team confirms that the information transferred to the latest version of the CPA-DDs /01/ is materially the same as that in the registered CPA-DDs /B02/.

The validation team can confirm that the post registration changes carried out to CPA-DDs /01/ are in accordance with the requirements of UNFCCC. The DOE therefore accepts the changes and request for the approval of:

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

As per §228 of CDM PS for PoAs (version 01.0) /B03-2/, the proposed PRC does not require prior approval. The changes shall be notified to the UNFCCC Secretariat as per §251 of PS for PoAs (version 01.0) /B03-2/ and §171 of CDM PCP for PoAs (version 01.0) /B03-3/.

## Appendix 1. Abbreviations

Abbreviations	Full texts
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CL	Clarification Request
CME	Co-ordinating and Managing entity
CPA	Component Project Activity
CPA-DD	Component Project Activity Design Document
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
DR	Document review
DOE	Designated Operational Entities
DVR	Draft Verification Report
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**

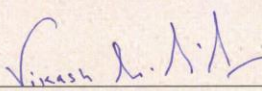
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

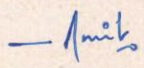
*For following functions:*

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 <sup>1</sup>	<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

<sup>1</sup>India

### CARBON CHECK (INDIA) PRIVATE LIMITED

Registered in India: U74930DL2012PTC232495

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

Corporate off: G 49 & 50, 3<sup>rd</sup> Floor, Sector - 3, NOIDA (Uttar Pradesh) - 201301

Tel: +91 120 4373114 | URL: [www.carboncheck.co.in](http://www.carboncheck.co.in)

e-mail: [info@carboncheck.co.in](mailto:info@carboncheck.co.in)



## Carbon Check (India) Private Ltd.

### Amit Anand

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 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 <sup>1</sup>	<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

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
23/12/2016	Annual Revision
24/12/2017	Annual Revision

<sup>1</sup>India, South Africa

#### CARBON CHECK (INDIA) PRIVATE LIMITED

Registered in India: U74930DL2012PTC232495

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

Corporate off: G 49 & 50, 3<sup>rd</sup> Floor, Sector - 3, NOIDA (Uttar Pradesh) - 201301

Tel: +91 120 4373114 | URL: [www.carboncheck.co.in](http://www.carboncheck.co.in)

e-mail: [info@carboncheck.co.in](mailto:info@carboncheck.co.in)

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	CME	Revised CPA-DDs: 8438-0001 8438-0002	Version 05, 26/12/2018 Version 02, 26/12/2018	CME
/B01/	CME	Approved revised PoA-DD for PoA 8438	Version 10; 01/11/2018	UNFCCC
/B02/	CME	Registered / Included CPA-DDs: 8438-0001 8438-0002	Version 04, 23/11/2012 Version 01, 01/12/2015	UNFCCC
/B03/	UNFCCC	1. CDM VVS for PoAs, version 01.0 2. CDM PS for PoAs, version 01.0 3. CDM PCP for PoAs, version 01.0	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	
/B04/	UNFCCC	AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 04)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B05/	UNFCCC	CDM-CPA-DD-FORM, Version 08.1	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B06/	UNFCCC	Previous verifications of the PoA 8438	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B07/	UNFCCC	Standard: Sampling and surveys for CDM project activities and programmes of activities (version 03.0 and version 07.0)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B08/	UNFCCC	Guideline: Sampling and surveys for CDM project activities and programmes of activities ((version 02.0 and version 04.0)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others

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

Table 1. CLs from this validation

<b>CL ID</b>	01	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CL</b>				
In section A.1 of the CPA-DDs, the statement “Measures for continual improvements of the PoA management have been established and will be implemented with each CPA” has been deleted. CME needs to justify the deletion and propose it in Appendix 6 of the CPA-DD under PRC.				
<b>CME’s response</b>				<b>Date:</b> 29/12/2018
This statement was considered more relevant for the PoA but has been reinstated in the CPA-DDs for consistency with the registered PoA-DD.				
<b>Documentation provided by CME</b>				
CPA-DDs for CPA 01 (version 05) and CPA 02 (version 02)				
<b>DOE assessment</b>				<b>Date:</b> 29/12/2018
CME has undeleted the statement and kept as it is in the original CPA-DD.				
The CL is closed.				

<b>CL ID</b>	02	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CL</b>				
The number of cookstoves have been changed from 43,383 to 47,244 for CPA 1 and from 44,839 to 48,764 in the respective revised CPA-DDs. Clarification is requested.				
<b>CME’s response</b>				<b>Date:</b> 29/12/2018
The PP had applied the average thermal efficiency based on the most recent WBTs to estimate the revised parameter. However, this has now been amended back to 43,383 for consistency with the registered PoA-DD				
<b>Documentation provided by CME</b>				
CPA-DDs for CPA 01 (version 05) and CPA 02 (version 02)				
<b>DOE assessment</b>				<b>Date:</b> 29/12/2018
CME has kept the number of cook stoves as in the original CPA-DD.				
The CL is closed.				

<b>CL ID</b>	03	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CL</b>				
The value for parameter “Annual energy saving per appliance” provided in the revised CPA-DD 1 as 0.00401 GWh does not match with the registered ER spread sheet for the CPA1				
<b>CME’s response</b>				<b>Date:</b> 29/12/2018
This was an error and the value of the parameter has been amended to the correct value of 0.00415 GWh.				
<b>Documentation provided by CME</b>				
CPA-DD for CPA 01 (version 05)				
<b>DOE assessment</b>				<b>Date:</b> 29/12/2018
CME has kept the values as in the original CPA-DD.				
The CL is closed.				

<b>CL ID</b>	04	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CAR</b>				
In section F of the revised CPA-DD 1, CME needs to clarify the eligibility criterion number 15 which could not be seen the registered CPA-DD. Also for CPA2, the eligibility criteria have not been filled in the template format on the CPA-DD.				
<b>CME’s response</b>				<b>Date:</b> 29/12/2018
The eligibility criteria 15 was intended for Gold Standard registration but is no longer relevant as Gold Standard registration is no longer required. It has therefore been removed. The eligibility criteria has been appropriately filled in the correct template in Section F of CPA02.				

<b>Documentation provided by CME</b>			
CPA-DDs for CPA 01 (version 05) and CPA 02 (version 2)			
<b>DOE assessment</b>			<b>Date:</b> 29/12/2018
The irrelevant eligibility criterion in CPA1 has been removed and also the CPA 2 has been revised in line with the CPA-DD template.			
The CL is closed.			

<b>CL ID</b>	05	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CAR</b>				
In the CPA-DDs, the CME is requested to clarify the reason of the proposed changes for PRC as per §227 of CDM PS for PoA (version 01.0) and §265 of CDM VVS for PoA (version 01.0). Please also refer to §236 of CDM PS for PoA (version 01.0).				
<b>CME's response</b>				<b>Date:</b> 28/12/2018
The reasons for the post registration changes have been added under Appendix 6 in each of the CPA-DDs for CPA01 and CPA02				
<b>Documentation provided by CME</b>				
CPA-DDs for CPA 01 (version 05) and CPA 02 (version 2)				
<b>DOE assessment</b>				<b>Date:</b> 29/12/2018
In Appendix 6 of the CPA-DDs, the CME has provided reasons for each of the proposed PRCs.				
The CL is closed.				

Table 2. CARs from this validation

<b>CAR ID</b>	01	<b>Section no.</b>	D.1	<b>Date:</b> 28/12/2018
<b>Description of CAR</b>				
Table format, font size and type and date format cannot be altered with respect to the CPA-DD template throughout the CPA-DDs.				
<b>CME's response</b>				<b>Date:</b> 28/12/2018
All Table formats, font sizes and type, date format have been amended to conform with the CPA-DD template				
<b>Documentation provided by CME</b>				
CPA-DDs for CPA 01 (version 05) and CPA 02 (version 2)				
<b>DOE assessment</b>				<b>Date:</b> 29/12/2018
Table format, font size and type and date format have been kept as per the CPA-DD-FORM template throughout the CPA-DDs.				
The CAR is closed.				

Table 3. FARs from this validation

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

## Appendix 5. Assessment of proposed Post Registration Changes

**Table 1: Corrections**

Sl. No.	Corrections in PoA-DD	Assessment By DOE
1.	Changes in the CPA-DDs due to change in version of the CPA-DD template (i.e. adopting the latest format of the CDM-CPA-DD-FORM, Version 08.1)	While doing the post registration changes in the CPA-DDs, the CME has adopted the valid version of the CDM-CPA-DD-FORM in line with requirements of CDM PS for PoAs (version 01.0) /B03-2/ and the validation team confirms the compliance of §247 of CDM VVS for PoAs (version 01.0) /B03-1/.
2.	Deletion in section B.1 of the CPA-DDs, “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 the included CPA-DDs /B02/, the parameter “<i>Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass (<math>f_{NRB,y}</math>)</i>” was stated under the paragraph “<i>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”</i>. But this parameter is not monitored through sampling and testing. Hence the deletion of this parameter in the above mentioned section of the CPA-DDs 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 / CPA-DDs 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.	The monitoring parameter, Quantity of charcoal used in the absence of the project activity per appliance ( $B_{old,appliance,survey}$ ) has been moved from being a monitored parameter (section B.5.1) to parameter fixed ex ante (section B.4.2)	This correction in the CPA-DDs /01/ is deemed acceptable as the stated parameter is not a monitoring parameter but fixed ex-ante.
2.	Monitoring frequency of the parameters “Annual energy saving per appliance”, “Annual number of appliances to reach small scale threshold” have been corrected to “annual”	<p>This correction in the CPA-DDs has is deemed acceptable based on the below assessment.</p> <p>It may be noted that “Annual energy saving per appliance” is a</p>

		<p>calculated parameter using the values of fuel saved per appliance per year and the NCV of the fuel using the following steps; <math>B_{old}</math>, <math>appliance * (1 - (\eta_{old} / \eta_{new})) * N_y * NCV_{charcoal} * 3.6</math> 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 in spite of the monitoring frequency of the directly monitored being annual or biennial, the resultant value will be energy savings per annum only.</p> <p>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. Moreover, this approach has also been approved through PRC in the revised PoA-DD /B01/.</p>
3.	Monitoring frequency of the parameters “ $B_{old}$ ”, “ $DO_y$ ” and “ $\eta_{new}$ ” have been changed to “at least biennially”	<p>In the revised CPA—DDs /01/, CME has submitted the monitoring frequency of the monitoring parameters (“<math>B_{old}</math>”, “<math>DO_y</math>” and “<math>\eta_{new}</math>”) consistently as “at least biennially” which comply with paragraph 15 of the applied methodology AMS II.G, version 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 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. Moreover, this approach has also been approved through PRC in the revised PoA-DD /B01/.</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"> <li>• Complies with the requirements as stated under section 9.3.4 of the PS for PoAs, (version 01.0) /B01-2/.</li> <li>• Complies with the requirements of applied methodology (AMS II.G, version 04) /B03/</li> <li>• Does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.</li> </ul>

4.	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 CPA-DDs 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/. 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. Moreover, this approach has also been approved through PRC in the revised PoA-DD /B01/.</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"> <li>• Complies with the requirements as stated under section 9.3.4 of the CDM PS for PoAs (version 01.0) /B01-2/.</li> <li>• 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/.</li> <li>• Does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.</li> </ul>
----	---	---

- - - - -

**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	29 December 2017	Initial publication.
Decision Class: Regulatory		
Document Type: Form		
Business Function: Registration		
Keywords: post-registration change, component project activity, validation report		