



**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**

<b>Title and UNFCCC reference number of the programme of activities (PoA)</b>	PoA for the Reduction of emission from non-renewable fuel from cooking at household level  UNFCCC PoA Reference Number: 7359
<b>Process track</b>	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of PoA
<b>Version number of the validation report on PoA PRCs</b>	01
<b>Completion date of the validation report on PoA PRCs</b>	16/01/2018
<b>Version number of PoA-DD applicable to this validation report</b>	Version: 17; Dated: 15/01/2018
<b>Type(s) of PoA 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"/> 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
<b>Coordinating/managing entity</b>	Green Development AS
<b>Host Parties</b>	Ethiopia Kenya Madagascar Malawi Mozambique Nigeria Uganda Zambia Chad Dominic Republic Ivory Coast

	Liberia Namibia Rwanda Sierra Leone Somalia Ghana South Africa Zimbabwe
<b>Applied methodologies and standardized baselines</b>	AMS-I.E. "Switch from non-renewable biomass for thermal application by the end user" (version 04)
<b>Mandatory sectoral scopes linked to the applied methodologies</b>	Sectoral scope 1: Energy Industries (renewable - /non renewable sources)
<b>Conditional sectoral scopes linked to the applied methodologies, if applicable</b>	N/A
<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 PoA PRCs</b>	Vlkash Kumar Singh, Executive Director

**SECTION A. Executive summary**

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The Project Participant has appointed Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Post Registration Changes to the CDM Programme of Activities (PoA) "PoA for the Reduction of emission from non-renewable fuel from cooking at household level" (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 VVS for PoA requirements (version 01.0). This report contains the findings and resolutions from the validation and a validation opinion.

The objective of the PoA is replacement of non-renewable biomass with renewable fuel for cooking and water purification in participating households. The technologies included in the programme are ethanol, biogas stoves and water purification systems.

**Scope:**

The scope of the PRC validation is defined as an independent and objective review of the revised PoA-DD and 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 Registered PoA-DD (version 13; Dated: 14/12/2013) /B02/
- Desk review of relevant documents
- Interview with representatives of the CME

The summary of proposed changes is as below;

	<b>Corrections</b>
<b>Sl. No.</b>	<b>Corrections in PoA-DD &amp; Generic CPA-DD</b>
1.	Minor spelling and removing of space between words and paragraphs.
2.	Change of fonts used in the document where different fonts were initially used.
3.	Using the latest format of the CDM-POA-DD-FORM (Version 08.1) which is used for this document)
4.	Correction to the document version number and the date of the completion of the CDM PoA-DD.
5.	Moved the summary of the PRC that was done in version 13 of this document from the main test, to this appendix.
6.	Addition of conditions with regards to availability of credit facility to Local Project Implementation Partners (LPIP).
7.	Removal of text with regards to ethanol stoves being the highest generator of CERs among the technological solutions to be implemented under this PoA.
8.	Addition of texts with regards to the use of funds from sale of CERs that the funding from sales of CERs to pay for required support and maintenance for the systems deployed under this PoA.
9.	Update of the contact information provided in Appendix 1 of CME.
10.	Elaborating on the definition of water purification system to further clarify that water supply systems can be considered as water purification system in regard to this PoA, as long as that water meets the quality requirement as specified in the Eligibility Criteria.
11.	A typographical error in eligibility criterion 3 has been corrected by removing the reference to non-renewable energy sources.

12.	Addition of text to indicate that denatured alcohol might also be sourced from sugar factories and other entities, that make ethanol as a by-product from their main business, in addition to purchase from micro distilleries.
13.	Addition of text to indicate that dried bagasse might be used as energy source for the boiler for the distillation process in place of dried sugarcane.
<b>Permanent changes to monitoring Plan</b>	
<b>Sl. No.</b>	<b>Generic CPA-DD</b>
1.	Revision in monitoring frequency of the ex-post parameters from Annual to Biennial.
2.	Addition of text to indicate scanned (soft) copies of baseline survey forms might be provided to CME rather than sending the original survey forms by regular post.
3.	Addition of provision to account for failure to reach required confidence/precision level at the time of verification in accordance with latest version of CDM rules and regulations available at the time of verification.
4.	Addition of text to indicate that random selection of households to be monitored, could be done with the use of random selection in excel, from all project participating households in the CPA or batch of CPA included in the program at the time of selection of household to be monitored.
5.	Addition of text to clarify that water test to confirm that drinking water supplied by the program meet the required WHO's interim performance targets on households water treatment, can additionally be done by a certified laboratory on-site during the monitoring process.
6.	Addition of text to clarify that during 7 days of monitoring period household can alternatively be provided with 12 litres of denatured alcohol in place of 20 litres.
7.	Deletion of text with reference to number (20) and volume (10 litre) of empty water containers for monitoring purpose to households that use purified water.
8.	Change in personnel responsible for calculation of emission reductions for the CPA from Recording and Data Manager to CME.
9.	Addition of a row to provide for the name of a person from the household that has been monitored in the Monitoring Form.
10.	Change in measurement methods and procedures for parameter QDWp,y to indicate that monitoring of random sample of project participating household will be done according to the monitoring process as described in the Monitoring Plan in place of Program management manual.
11.	Inclusion of text to indicate that 95/5 confidence level shall be applied in case of biennial monitoring.

**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 /	IR	Anand	Amit	CC IPL	X	NA	X	X
2.	Technical Expert	FR	Nesari	R. V.	CC IPL	X	NA		

**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	Agarwalla	Sanjay Kumar	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.	Norstebo	Havard	Green Development AS	12/01/2018; 15/01/2018; 16/01/2018 (Via Skype)	Discussion on the revised PoA-DD & CPA-DDs	Amit Anand, R.V. Nesari
...						

**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	01	--	--
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other applied standards or tools	--	--	--
Changes to the programme design	--	--	--
Changes specific to afforestation and reforestation activities	--	--	--
Others (please specify)	--	--	--
<b>Total</b>	01	02	--

## SECTION D. Validation findings

### D.1. Compliance with the PoA-DD form

<b>Means of validation</b>	DR
<b>Findings</b>	CAR 01 has been raised in this regard. Please refer to <b>Appendix 4</b> for detailed closure of validation finding.
<b>Conclusion</b>	Depends on the closure of CAR 01

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

### D.3. Corrections

<b>Means of validation</b>	DR, I
<b>Findings</b>	CAR 02 has been raised in this regard. Please refer to <b>Appendix 4</b> for detailed closure of validation finding.
<b>Conclusion</b>	Depends on the closure of CAR 02.

### D.4. Inclusion of monitoring plan

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	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**

<b>Means of validation</b>	DR, I
<b>Findings</b>	CL 01 has been raised in this regard. Please refer to <b>Appendix 4</b> for detailed closure of validation finding.
<b>Conclusion</b>	Depends on the closure of CL 01

**D.6. Changes to the programme design**

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

**D.7. Changes specific to afforestation and reforestation activities**

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	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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Depends on the closure of validation findings.

## Appendix 1. Abbreviations

Abbreviations	Full Texts
BE	Baseline Emission
CAR	Corrective Action Request
CCIPL	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 <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
COP/MOP	Conference of Parties/ Meeting of Parties
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EB	Executive Board
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas
GWh	Giga Watt Hours
I	Interview
IPCC	Intergovernmental Panel on Climate Change
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
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**

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	CME	Initial revised PoA-DD	Version 17; Dated: 15/01/2018	CME
/02/	CME	Final revised PoA-DD	Version: XX; Dated: DD/01/2018	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)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B02/	UNFCCC	PoA-DD (version 13; Dated: 14/12/2013) and the corresponding validation report for the registered PoA "PoA for the reduction of emission from non-renewable fuel from cooking at household level" (UNFCCC Ref. No. 7359)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B03/	UNFCCC	AMS-I.E. "Switch from non-renewable biomass for thermal application by the end user" (version 04)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B04/	UNFCCC	Programme design document form for CDM programmes of activities (CDM-POA-DD-FORM), (Version 08.1)	<a href="http://cdm.unfccc.int/">http://cdm.unfccc.int/</a>	Others
/B05/	UNFCCC	Glossary of CDM Terms, version 07.0	<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

CL ID	01	Section no.	D.5	Date:	16/01/2018	
<b>Description of CL</b>						
<i>During review of revised PoA-DD (version 17), it has been observed that some of the changes to the monitoring plan have been listed as corrections in Appendix 6 of the revised PoA-DD.</i>						
<i>Furthermore, it has also been observed that some of the explanations or clarifications made in the PoA-DD to better illustrate the accurate reflection of actual project or programme information have been listed as changes.</i>						
<i>PP shall clarify how corrections and changes to MP have been classified and listed in Appendix 6 of PoA-DD.</i>						
<b>CME's response</b>					Date:	DD/MM/YYYY
<b>Documentation provided by CME</b>						
<b>DOE assessment</b>					Date:	DD/MM/YYYY

Table 2. CARs from this validation

CAR ID	01	Section no.	D.1	Date:	16/01/2018	
<b>Description of CAR</b>						
<i>The revised PoA-DD submitted for validation of PRC doesn't use the latest version of the PoA template available on UNFCCC website.</i>						
<b>CME's response</b>					Date:	DD/MM/YYYY
<b>Documentation provided by CME</b>						
<b>DOE assessment</b>					Date:	DD/MM/YYYY

CAR ID	02	Section no.	D.3	Date:	16/01/2018	
<b>Description of CAR</b>						
<i>The list of corrections and changes as presented in Appendix 6 of the revised PoA-DD (version 17) is not complete as it doesn't contain information on some of the corrections made in the part I and part II of the PoA-DD.</i>						
<b>CME's response</b>					Date:	DD/MM/YYYY
<b>Documentation provided by CME</b>						
<b>DOE assessment</b>					Date:	DD/MM/YYYY

Table 3. FARs from this validation

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

## Appendix 5. Clarification requests, corrective action requests and forward action requests

**Table 1: Corrections**

Sl. No.	Corrections in PoA-DD & Generic CPA-DD	Assessment By DOE
1.	Minor spelling and removing of space between words and paragraphs.	Depends on the closure of validation findings
2.	Change of fonts used in the document where different fonts were initially used.	Depends on the closure of validation findings
3.	Using the latest format of the CDM-POA-DD-FORM (Version 08.1) which is used for this document)	Depends on the closure of validation findings
4.	Correction to the document version number and the date of the completion of the CDM PoA-DD.	Depends on the closure of validation findings
5.	Moved the summary of the PRC that was done in version 13 of this document from the main test, to this appendix.	Depends on the closure of validation findings
6.	Addition of conditions with regards to availability of credit facility to Local Project Implementation Partners (LPIP).	Depends on the closure of validation findings
7.	Removal of text with regards to ethanol stoves being the highest generator of CERs among the technological solutions to be implemented under this PoA.	Depends on the closure of validation findings
8.	Addition of texts with regards to the use of funds from sale of CERs that the funding from sales of CERs to pay for required support and maintenance for the systems deployed under this PoA.	Depends on the closure of validation findings
9.	Update of the contact information provided in Appendix 1 of CME.	Depends on the closure of validation findings
10.	Elaborating on the definition of water purification system to further clarify that water supply systems can be considered as water purification system in regard to this PoA, as long as that water meets the quality requirement as specified in the Eligibility Criteria.	Depends on the closure of validation findings
11.	A typographical error in eligibility criterion 3 has been corrected by removing the reference to non-renewable energy sources.	Depends on the closure of validation findings
12.	Addition of text to indicate that denatured alcohol might also be sourced from sugar factories and other entities, that make ethanol as a by-product from their main business, in addition to purchase from micro distilleries.	Depends on the closure of validation findings
13.	Addition of text to indicate that dried bagasse might be used as energy source for the boiler for the distillation process in place of dried sugarcane.	Depends on the closure of validation findings

**Table 2: Revision in Monitoring Plan**

Sl. No.	Generic CPA-DD	Assessment by DOE
1.	Revision in monitoring frequency of the ex-post parameters from Annual to Biennial.	Depends on the closure of validation findings
2.	Addition of text to indicate scanned (soft) copies of baseline survey forms might be provided to CME rather than sending the original survey forms by regular post.	Depends on the closure of validation findings
3.	Addition of provision to account for failure to reach required confidence/precision level at the time of verification in accordance with latest version of CDM rules and regulations available at the time of verification.	Depends on the closure of validation findings
4.	Addition of text to indicate that random selection of households to be monitored, could be done with the use of random selection in excel, from all project participating households in the CPA or batch of CPA included in the program at the time of selection of household to be monitored.	Depends on the closure of validation findings
5.	Addition of text to clarify that water test to confirm that drinking water supplied by the program meet the required WHO's interim performance targets on households water treatment, can additionally be done by a certified laboratory on-site during the monitoring process.	Depends on the closure of validation findings
6.	Addition of text to clarify that during 7 days of monitoring period household can alternatively be provided with 12 litres of denatured alcohol in place of 20 litres.	Depends on the closure of validation findings
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8.	Change in personnel responsible for calculation of emission reductions for the CPA from Recording and Data Manager to CME.	Depends on the closure of validation findings
9.	Addition of a row to provide for the name of a person from the household that has been monitored in the Monitoring Form.	Depends on the closure of validation findings
10.	Change in measurement methods and procedures for parameter QDWp,y to indicate that monitoring of random sample of project participating household will be done according to the monitoring process as described in the Monitoring Plan in place of Program management manual.	Depends on the closure of validation findings
11.	Inclusion of text to indicate that 95/5 confidence level shall be applied in case of biennial monitoring.	Depends on the closure of validation findings

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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.

Decision Class: Regulatory  
Document Type: Form  
Business Function: Registration  
Keywords: post-registration change, programme of activities, validation report