




**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)	Fuel Efficient Stoves in Zambia PoA 6864
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	Version 1.0
Completion date of the validation report on PoA PRCs	23/05/2019
Version number of PoA-DD applicable to this validation report	Version 7.2
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 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 checked="" type="checkbox"/> Changes to the programme design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
Coordinating/managing entity	3 Rocks Ltd. (3RL)
Host Parties	Zambia
Applied methodologies and standardized baselines	AMS II.G. <i>Energy efficiency measures in thermal applications of non-renewable biomass; Version 3</i>
Mandatory sectoral scopes linked to the applied methodologies	3. Energy Demand
Conditional sectoral scopes linked to the applied methodologies, if applicable	NA
Name and UNFCCC reference number of the DOE	Earthood Services Private Limited E-0066
Name, position and signature of the approver of the validation report on PoA PRCs	

	 Dr. Kaviraj Singh Managing Director
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SECTION A. Executive summary**Background**

3 Rocks Limited is the coordinating/managing entity (CME) for the registered PoA 6864: Fuel Efficient Stoves in Zambia. The registered PoA aimed at replacing currently used traditional stoves with affordable and efficient improved cook stoves (ICS) in Zambia.

The basic details of the registered PoA are as under:

PoA title	Fuel Efficient Stoves in Zambia
UNFCCC registration number	6864
Date of registration	28/01/2013
Sectoral scope	3. Energy Demand
Methodology/ies applied	AMS II.G. Energy efficiency measures in thermal applications of non-renewable biomass; Version 3
Coordinating/managing entity(CME)	3 Rocks Limited
Location of Project Activity	Zambia
Version of registered PoA-DD	Version 6.2, 07/01/2013
Included CPAs	6864-0001: Fuel Efficient Stoves in Zambia (3RL CPA No.01) 6864-0002: Fuel Efficient Stoves in Zambia (3RL CPA No.02) 6864-0003: Fuel Efficient Stoves in Zambia (3RL CPA No.03)

Scope of validation

Earthood Services Private Limited is contracted by the CME to perform the validation of the post registration changes proposed to the registered PoA-DD. The scope of validation includes the assessment of the proposed PRCs primarily identified by CME as change in programme design and corrections. This validation is an independent and objective review of all the post registration changes proposed in revised PoA DD against criteria stipulated in latest valid versions of CDM Validation and Verification Standard (VVS), CDM Project Standard (PS), CDM Project Cycle Procedures (PCP) and other related and relevant requirements, as appropriate.

Validation process

The validation process is undertaken by a qualified and competent validation team, involving a desk review of proposed post registration changes as proposed in the revised PoA DD provided by CME, interview or interactions with the representatives of CME, reporting and closure of findings, as appropriate and preparing a draft validation report complying with the relevant CDM requirements. The validation report prepared by the validation team is reviewed by an independent Technical Review team. The final validation report that is accepted by Technical Reviewer is then approved on behalf of Earthood Services Private Limited and processed further as per CDM procedures.

Conclusion

The proposed changes in the registered PoA-DD meet all relevant UNFCCC requirements for the CDM PoA DD and correctly apply the selected baseline and monitoring methodology. Furthermore, as per section 9.3 of the CDM VVS PoA Version 2.0, the changes require prior approval (as per Appendix 2 PS PoA Version 2.0) by the CDM Executive Board.

SECTION B. Validation team, technical reviewer and approver**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Document review	On-site inspection*	Interviews	Validation findings
1.	Team Leader	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
2.	Validator	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
3.	Technical Expert	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
4.	Methodology Expert	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
5.	Local Expert	IR	Chipompwe	Selwyn	Central Office	Y	N	N	Y

No site visit was conducted for the scope of validation of PRCs does not have any information on the field to be corroborated. **Complete team is indicated in section B of this report.

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	Garg	Shreya	Central Office
2.	TE to TR	IR	Garg	Shreya	Central Office
3.	Approver	IR	Singh	Kaviraj	Central Office

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

The complete list of documents/evidences reviewed or referenced during the validation is provided in the Appendix 3

C.2. On-site inspection

Duration of on-site inspection: NA				
No.	Activity performed on-site	Site location	Date	Team member
1.	NA	NA	NA	NA

No site visit was conducted for the scope of validation of PRCs does not have any information on the field to be corroborated. **Complete team is indicated in section B of this report.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Marshall	Nick	Ice Cap Ltd.	08/05/2019	Post registration changes	Deepika Mahala
2.	Lohia	Rohit	Climate Secure	08/05/2019	Post registration changes	Deepika Mahala

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	-	CAR 02	-
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	-	-	-
Corrections	CL#03	-	-
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	-	-	-
Changes to the programme design	CL#03	-	-
Changes specific to afforestation and reforestation activities	-	-	-
Others (Editorial and grammatical errors)	CL 01	-	-
Total	2	1	0

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

Means of validation	The revised PoA-DD/2/ (both in tracked-change and clean versions) complies with the valid version of the applicable PoA-DD form/6/ and the instructions therein. The valid version as per UNFCCC website/6/ was found to be 08.1 and same version has been applied by CME. The CME has used the latest valid version (08.1) of the PoA-DD for preparing the revised PoA-DD/2/, therefore, it is confirmed that the information transferred to the later valid version of the PoA-DD form is materially the same as that in the registered PoA-DD/1/ except for the content of proposed PRCs.
Findings	CAR 02 raised and resolved.
Conclusion	The validation team confirms that the proposed post registration changes as included in the revised PoA-DD/2/ have been presented by using the valid version of CDM-PoA-DD-FORM/6/ and were found complying with the instructions contained therein. The CME has used the latest version of PoA-DD FORM/6/ and the validation team confirms that the information transferred in this process is materially the same except the proposed post registration changes (listed under further sections).

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

Means of validation	NA
Findings	NA
Conclusion	NA

D.3. Corrections

Means of validation	The CME has made multiple editorial changes in the PoA DD/2/ to clarify and simplify information given in the PoA-DD/1/. These changes were identified as correction and assessed below:	
	Changes proposed	DOE assessment

	The term 'Installation' of stoves used in registered PoA-DD has been changed to 'distribution'	The change clarifies the description of the PoA/2/. Since the new models proposed to be included could be portable, the word distribution was found more appropriate. The change does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
	The terms '3 stone fires' or '3 rock fires' which were used in the registered PoA-DD have been changed to 'baseline appliance'	The change clarifies that the PoA /2/ is referring to baseline appliance. Replacing the said terms with 'baseline appliance' will allow usage of one single term to refer to the baseline technology. It does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team
	'Monitoring database' is now the unified term for the repository of unique stove end user data, removing references to 'installation database'	The change unifies the term used for database in the PoA DD/2/. It does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
	References to a signed 'emissions rights agreement' with end users have been removed, as in practice this is not a requirement	The reference is not required by the applied methodology/7/. It does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
	'CME' and 'CPA Implementer' are used in all circumstances to clarify the various roles and responsibilities defined under the PoA-DD and CPA-DD. This has clarified a variety of references to: '3RL', '3RL administration', 'data administration teams', 'Zambian project manager' etc. for the CME, and 'regional logistics managers' 'installers', 'installation teams', 'post-installation teams', 'local partners' etc. for the CPA Implementer	The change uses a common term 'CME' and 'CPA Implementer' instead of variety of references stated in the PoA DD/2/. The change does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
	Annex 4 monitoring information has been deleted as it is no longer accurate and is now clearly outlined in Section I of the PoA-DD	Information related to installation process presented under Annex 4 of the registered PoA DD/1/ has been removed. The updated installation process is explained in detail under section I of the revised PoA DD/2/. The change does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
	'where possible' has been added to 'data capture' section of Section B: Management System, to indicate that it is not always realistically possible to collect all the	The CME aims to collect the detailed location information for all the end users. For remote locations where the address may not exist and GPS ID may also not be recordable, the physical description of the location would be noted. Thus, all the end users listed in the database would be traceable.

	distribution data that is listed in the PoA-DD	The sample will be withdrawn from the entire population randomly as per the sampling plan and thus, the result would be representative of the population. The change does not impact the design or the monitoring plan of the PoA, thus it has been accepted by the validation team.
Findings	CL#03 was raised and resolved.	
Conclusion	The DOE confirms that the corrected information is an accurate reflection of actual information and is in accordance with registered monitoring plan. The assessment of the changes is given above. All the changes were found to comply with requirements of VVS for PoA version 2.0./5/ and PS for PoA version 2.0/4/.	

D.4. Inclusion of monitoring plan

Means of validation	NA
Findings	NA
Conclusion	NA

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	NA
Findings	NA
Conclusion	NA

D.6. Changes to the programme design

Means of validation	The CME has proposed following changes to the programme design:				
	1. Technology employed: The CME has proposed revisions to PoA DD to allow for the dissemination of multiple models of cookstove. The PoA was registered in 28/01/2013. Many new models have been developed since the registration. The CME wants to update the PoA DD to incorporate the latest and best available technology which can be provided to the end users receiving stoves under this PoA.				
	<table><tr><th>Changes proposed</th><th>DOE Assessment</th></tr><tr><td>The PoA DD has been revised to allow inclusion of new models in the CPAs.</td><td><p>The change involves allowing new models to be included under the PoA. The various sections of the PoA DD have been updated to state requirements to be met by new models at the time of CPA inclusion. The change was identified as addition of technology as per para 239(b)(v) of PS for PoA version 2.0/4/. The change does not impact the applicability or the compliance of the monitoring plan with the applied methodology/7/ or the level of accuracy and completeness in the monitoring of the PoA.</p><p>The change does not even impact additionality or the scale of the project either. However, these sections have been updated to simplify the demonstration of threshold and additionality. The change was found to be inline with PS for PoA version 2.0/4/.</p></td></tr></table>	Changes proposed	DOE Assessment	The PoA DD has been revised to allow inclusion of new models in the CPAs.	<p>The change involves allowing new models to be included under the PoA. The various sections of the PoA DD have been updated to state requirements to be met by new models at the time of CPA inclusion. The change was identified as addition of technology as per para 239(b)(v) of PS for PoA version 2.0/4/. The change does not impact the applicability or the compliance of the monitoring plan with the applied methodology/7/ or the level of accuracy and completeness in the monitoring of the PoA.</p> <p>The change does not even impact additionality or the scale of the project either. However, these sections have been updated to simplify the demonstration of threshold and additionality. The change was found to be inline with PS for PoA version 2.0/4/.</p>
Changes proposed	DOE Assessment				
The PoA DD has been revised to allow inclusion of new models in the CPAs.	<p>The change involves allowing new models to be included under the PoA. The various sections of the PoA DD have been updated to state requirements to be met by new models at the time of CPA inclusion. The change was identified as addition of technology as per para 239(b)(v) of PS for PoA version 2.0/4/. The change does not impact the applicability or the compliance of the monitoring plan with the applied methodology/7/ or the level of accuracy and completeness in the monitoring of the PoA.</p> <p>The change does not even impact additionality or the scale of the project either. However, these sections have been updated to simplify the demonstration of threshold and additionality. The change was found to be inline with PS for PoA version 2.0/4/.</p>				

	<p>Consequential change:</p> <ul style="list-style-type: none"> a. PoA-DD Section A3: Technologies/Measures b. PoA-DD Section C: Demonstration of Additionality of the PoA c. Generic CPA-DD Section H3: Purpose and general description of generic CPA d. Generic CPA-DD Section H4: Technologies/Measures e. Generic CPA-DD Section I.6.2: Data and parameters fixed ex ante (Bold & nnew) f. Generic CPA-DD Section I.7.2: Sampling plan (groups of CPAs are only homogenous when they have the same stove technology employed) g. Generic CPA-DD Section K: Eligibility Criteria for the Inclusion of CPAs (number 3) 	<ul style="list-style-type: none"> a. The section has been updated to include the conditions required to be met by the new stoves in order to be eligible for distribution under this PoA. b. Assessed in detail in the later part of this section. c. The section has been updated to include the conditions required to be met by the new stoves in order to be eligible for distribution under this PoA. d. The section has been updated to include the conditions required to be met by the new stoves in order to be eligible for distribution under this PoA e. For Bold: The expected number of stoves to be distributed has been removed as SSC threshold limit is no more applicable. For nnew: A new source (i.e. WBT) has been added for the parameter along with Stove manufacturers' Emissions & Performance Test Protocol (EPTP) test. The added source was found to be inline with the applied methodology/7/. f. Since new models of stoves will be included in the PoA, the condition to consider group of CPAs for sampling has been revised. Only the groups having the same technology can be considered homogeneous. The change was found to be in line with applied sampling guideline/10/. g. Eligibility criterion for technology has been revised to update the conditions required for demonstration of technology requirements for CPA inclusion. The technology conditions are stated in the eligibility criteria (section K of the PoA DD) which are as follows: 1. <i>Level of Service</i>: Each CPA will provide energy efficient cooking stoves based on the 'rocket stove' design. This will
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		<p>deliver a level of service at least equivalent to the baseline appliance by enabling cooking, water heating and space heating services to the household</p> <p>2. <i>Type of service:</i> The technology will deliver a baseline thermal efficiency of at least 20%.</p> <p>Condition (1) was already stated in the registered PoA DD. Condition (2) has been revised. The revised condition was found to be in line with the applied methodology/7/.</p>
	<p>3. Additionality: To update and simplify the additionality argument to reflect the latest available guidance</p>	
	<p>Changes proposed</p> <p>Additionality is automatically proven in both the registered version 6.2 of the PDD and the PRC version 7.2 of the PDD, although the method has been revised in accordance with the latest guidelines and to make it more simplified. This involves applying the following tools:</p> <p>Tool 19 version 8: Demonstration of additionality of microscale project activities</p> <p>Tool 21 version 12: Demonstration of additionality of small-scale project activities</p> <p>And the following sections have been updated accordingly:</p> <p>PoA-DD Section C: Demonstration of additionality of PoA</p> <p>CPA-DD Section K: Eligibility Criteria for the Inclusion of CPAs (number 6)</p>	<p>DOE assessment</p> <p>The CME had demonstrated the CPAs under the PoA to be auto additional in the registered PoA DD/1/. The method to demonstrate auto additionality has been revised now.</p> <p>Tool 19 version 8/9/ states that if the PoA fulfils one of the following conditions, it is considered additional, given that energy savings achieved per year are no more than 20 gigawatt hours:</p> <ol style="list-style-type: none"> <i>The geographic location of the project activity is in an LDC/SIDS or SUZ of the host country identified by the government in accordance with the paragraph 8(a)(i) of the methodology;</i> <i>The project activity is an energy efficiency activity with both conditions (i) and (ii) below satisfied:</i> <ol style="list-style-type: none"> <i>Each of the independent subsystems/measures in the project activity achieves an estimated annual energy savings equal to or smaller than 600 megawatt hours</i> <i>End users of the subsystems or measures are households/communities/SMEs</i> <p>The eligibility criteria are required to be fulfilled by any CPA in order to get</p>

		<p>included under the PoA. Revision in criteria will ensure that all CPAs under the PoA demonstrate additionality at the time of inclusion.</p> <p>Since the application of Tool 19 is in line with applied methodology/7/ and the change was found to be in line with PS for PoA version 2.0/4/.</p> <p>the change in method to demonstrate additionality was accepted by the validation team.</p>			
	<p>4. Thresholds: Reason for change: To simplify and streamline the CPA eligibility criteria and to reflect the latest available guidance</p>				
	<table><tr><th>Changes proposed</th><th>DOE assessment</th></tr><tr><td><p>In the application of the Tools 19 and 21 (above), the requirement to demonstrate compliance with the methodological threshold is fixed at the microscale sub-unit level. This means that the CME is not required to demonstrate compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA (Tool 19, para17). This has led to the following changes:</p><p>PoA-DD Section B.7.a: Management System</p><p>PoA-DD Section C: Demonstration of additionality of PoA</p><p>Generic CPA-DD Section K: Eligibility Criteria for the Inclusion of CPAs (number 11)</p></td><td><p>The CME has revised the criteria to demonstrate the threshold requirement.</p><p>The CME aims to disseminate only CDM micro scale sub units under the PoA. If the requirement of para 8-12 and 14 of tool 19/9/ are met, then CPAs under the PoA will be exempted from demonstration compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA.</p><p>The change was found to be in line with the PS for PoA version 2.0/4/.</p></td></tr></table>	Changes proposed	DOE assessment	<p>In the application of the Tools 19 and 21 (above), the requirement to demonstrate compliance with the methodological threshold is fixed at the microscale sub-unit level. This means that the CME is not required to demonstrate compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA (Tool 19, para17). This has led to the following changes:</p> <p>PoA-DD Section B.7.a: Management System</p> <p>PoA-DD Section C: Demonstration of additionality of PoA</p> <p>Generic CPA-DD Section K: Eligibility Criteria for the Inclusion of CPAs (number 11)</p>	<p>The CME has revised the criteria to demonstrate the threshold requirement.</p> <p>The CME aims to disseminate only CDM micro scale sub units under the PoA. If the requirement of para 8-12 and 14 of tool 19/9/ are met, then CPAs under the PoA will be exempted from demonstration compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA.</p> <p>The change was found to be in line with the PS for PoA version 2.0/4/.</p>
Changes proposed	DOE assessment				
<p>In the application of the Tools 19 and 21 (above), the requirement to demonstrate compliance with the methodological threshold is fixed at the microscale sub-unit level. This means that the CME is not required to demonstrate compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA (Tool 19, para17). This has led to the following changes:</p> <p>PoA-DD Section B.7.a: Management System</p> <p>PoA-DD Section C: Demonstration of additionality of PoA</p> <p>Generic CPA-DD Section K: Eligibility Criteria for the Inclusion of CPAs (number 11)</p>	<p>The CME has revised the criteria to demonstrate the threshold requirement.</p> <p>The CME aims to disseminate only CDM micro scale sub units under the PoA. If the requirement of para 8-12 and 14 of tool 19/9/ are met, then CPAs under the PoA will be exempted from demonstration compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA.</p> <p>The change was found to be in line with the PS for PoA version 2.0/4/.</p>				
Findings	CL#02 was raised and resolved.				
Conclusion	<p>The validation team confirms that,</p> <p>The proposed or actual changes comply with the relevant requirements in the Project Standard related to changes to the registered CDM programme design of a registered CDM PoA/4/.</p> <p>The proposed revisions comply with the applied methodology, standardized methodology and applied tools/7,8,9/.</p> <p>The additionality and the scale of the PoA were not affected by the proposed changes but were updated to simplify the conditions to demonstrate it.</p> <p>All the changes have been clearly stated in the appropriate sections revised PoA DD and summarized under Appendix 7 of the revised PoA DD/2/.</p>				

D.7. Changes specific to afforestation and reforestation activities

Means of validation	NA
Findings	NA
Conclusion	NA

SECTION E. Internal quality control

The draft validation report prepared by validation team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood Services Private Limited were duly complied with and whether such opinion/conclusion were reached in an objective manner that complies with the applicable CDM rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scopes the project activity / PoA falls into. All team members of technical review team were independent of the validation team. During the technical review process, additional findings may be identified, or the closed-out findings may be opened, which needs to be satisfactorily resolved by validation team before the validation report/opinion is

finalized. The independent technical reviewer may either approve the report as such or reject/return the same in such case providing the comments/findings/issues that needs to be resolved by the validation team. The decision taken by the Technical Reviewer is final and is authorized by the Managing Director on behalf of Earthood Services Private Limited.

SECTION F. Validation opinion

Earthood Services Private Limited (ESPL) has performed the validation of the post registration changes of the PoA 6864: Fuel efficient stoves in Zambia. The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM PoAs. The review of the PoA DD, supporting documentation (if any) and subsequent follow-up actions (including on-site inspection and interviews), have provided ESPL with sufficient evidence to determine the fulfilment of stated criteria. The proposed changes in programme design and permanent changes to monitoring plan comply with the CDM PS, CDM VVS and CDM PCP. The description as contained in the revised PoA-DD meets all relevant UNFCCC requirements for the CDM and correctly applies the monitoring methodology/ies, standardized baseline. This report is the combined assessment opinion for all the changes that are proposed in the revised PoA-DD as the changes are acceptable as permanent changes in programme design and permanent changes to registered monitoring plan to the registered PoA DD

Appendix 1. Abbreviations

Abbreviations	Full texts
3RL	3 Rocks Ltd.
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM PCP	Clean Development Mechanism Project Cycle Procedure
CDM PS	Clean Development Mechanism Project Standard
CDM VVS	Clean Development Mechanism Validation and Verification Standard
CER	Certified Emission Reduction
CL	Clarification Request
CME	Coordinating or Managing Entity
CP	Crediting Period
DOE	Designated Operational Entity
DNA	Designated National Authority
EB	Executive Board
ESPL	Earthood Services Private Limited
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
PoA-DD	Programme Of Activity Design Document
TA	Technical Area (with in Sectoral Scope)
TR	Technical Reviewer
UNFCCC	United Nations Framework Convention on Climate Change

Appendix 2. Competence of team members and technical reviewers

Competence Statement	
Name	Deepika Mahala
Country	India
Education	M. Sc. (Environmental Management), GGSIP University B.Sc. Hons. (Chemistry), Sri Venkateshwar College, DU
Experience	3 Years +
Field	Climate Change
Approved Roles	
Team Leader	YES
Validator	YES
Verifier	YES
Methodology Expert	ACM0002, AMS.I.D., AMS.I.A, AMS.III.AV, AMS.II.G
Local expert	YES (India)
Financial Expert	NO
Technical Reviewer	YES
TA Expert	YES (TA 1.2 & TA 3.1)

Reviewed by	Shreya Garg	Date	14/09/2018
Approved by	Anshika Gupta	Date	14/09/2018

Competence Statement			
Name	Selwyn Chipompwe		
Country	Zambia		
Education	Higher Diploma in Agriculture		
Experience	4 years +		
Field	Agriculture		
Approved Roles			
Team Leader	NO		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	YES (Zambia)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert	NO		
Reviewed by	Abhishek Mahawar	Date	01/03/2018
Approved by	Ashok Kumar Gautam	Date	01/03/2018

Competence Statement			
Name	Shreya Garg		
Country	India		
Education	M.Sc. (Climate Science & Policy), TERI University		
Experience	6 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS.I.A., AMS.I.C., AMS.I.D., AMS.I.F., AMS.II.D., AMS.II.G., AMS.II.J., AMS.III.AV., ACM0002, ACM0012		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.2, TA 3.1)		
Reviewed by	Abhishek Mahawar	Date	01/03/2018
Approved by	Ashok Gautam	Date	01/03/2018

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	3RL	Registered PoA DD	Version 6.2	CME
2.	3RL	Revised PoA DD(TC and clean)	Version 7.2	CME
3.	UNFCCC	PCP for PoA	Version 2.0	Others
4.	UNFCCC	PS for PoA	Version 2.0	Others
5.	UNFCCC	VVS for PoA	Version 2.0	Others
6.	UNFCCC	PoA DD form https://cdm.unfccc.int/filestorage/e/x/t/extfile-20170831155309188-PDD_form09v8_1.pdf/PDD_form09v8_1.pdf?t=TGV8cHI4ZTFofDDXdM9Nj_no0ALPcubawDp	Version 8.1	Others
7.	UNFCCC	Applied methodology AMS-II.G.	Version 3.0	Others
8.	UNFCCC	Tool 21: Demonstration of additionality of small-scale project activities	Version 12.0	Others
9.	UNFCCC	Tool 19: Demonstration of additionality of microscale project activities	Version 8.0	Others
10.	UNFCCC	General Guidelines For Sampling And Surveys For Small-Scale CDM Project Activities	Version 1.0	Others

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

Table 1. CLs from this validation

CL ID	01	Section no.	NA	Date: 02/05/2019
Description of CL				
<ol style="list-style-type: none"> per Para 226 of PS for PoA version 2.0, "The coordinating/managing entity shall provide a summary of the changes, including the reasons for the changes and any additional information relating to the changes to the PoA-DD or CPA-DD". The CME shall explain the reasons for the change. Para 227 states that "The coordinating/managing entity shall determine whether the actual or proposed changes are temporary deviations referred to in section 9.2 below, or permanent changes referred to in section 9.3 below, and whether they require approval by the Board." The CME shall explain the type of changes under Appendix 7: Summary of PRC of the PoA DD. 				
CME's response				Date: 07/05/2019
<ol style="list-style-type: none"> Reasons for each change have been added to Appendix 7 Types of changes added to Appendix 7. It should be noted that all changes are permanent and require approval by the CDM Board. 				
Documentation provided by CME				
DOE assessment				Date: 09/05/2019

<ol style="list-style-type: none"> 1. The changes were found added to the revised PoA-DD and the summary was found to be an accurate reflection of changes made to the PoA-DD. 2. The changes made to appendix 7 were found to be in line with PS for PoA ver 1. <p>The finding is closed.</p>
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CL ID	03	Section no.	D.6., D.3.	Date : 16/05/2019
Description of CL				
<ol style="list-style-type: none"> 1. The CME shall clarify if the change to revise the term for baseline equipment from 'wood-fired' stoves to 'inefficient traditional baseline appliances' intend to replace charcoal stoves which was not in the PoA design earlier? The change could not be found listed under Appendix 7 of the PoA DD. 2. The CME has added a term 'wherever possible' for collection of distribution database on page 6 of the PoA DD. The change could not be found listed under Appendix 7 of the PoA DD. <p>Further, it is also noted that as per paragraph 120 (b) the PS-PoA (version 01.0), the eligibility criteria shall cover conditions to avoid double counting, such as unique identifications of product and end-user locations. As per SSC clarification_746 has stated that "The Meth Panel considers that listing/recording of information of all end-users is important to meet the requirements above."</p> <ol style="list-style-type: none"> 3. The CME shall review the applicability of the calculated standard deviation (stated on page 31 of the PoA DD) since the newer stove models proposed to be included would have varying efficiency. 4. For the changes in the technology employed, Appendix 7 of the PoA DD, states "Reason for change: To allow for the distribution of multiple models of cookstove. Since the PoA was first registered, more efficient stove models have been developed by new manufacturers entering the market. This change is instigated to incorporate the best available technology". The reason provided by the CME is not completely understood since the proposed changes reduce the minimum efficiency of the stoves being deployed. Please justify 				
Project participant response				Date : 22/05/2019

1. There is no provision for charcoal stoves at present because there is no charcoal stove baseline values in the PDD. The term 'wood-fired' has been re-introduced. Therefore, no change to the PDD design has been made here.
2. The 'where possible' was only included to indicate that it is not always realistically possible to collect all the distribution data that is listed in the PoA-DD. For example, when working in rural locations in Zambia addresses may not be available, or GPS datapoints may not pinpoint the exact location. There will always be a unique listing of each stove with a unique user in the monitoring database, but it will not always contain all the datapoints listed in the PoA-DD. An explanation has been included in Appendix 7.
3. The standard deviation calculated is just an illustration of the first stove model introduced in the PDD (see included CPAs 1-3). As the PDD states in the same section: "the above calculations are just estimates for illustration" and "During actual sampling for monitoring exercises, these parameter values will reflect accurate data collected during the operation of the project."

The primary reason for this PRC is to introduce new stove models, which will have different baseline efficiencies with a specific standard deviation in the tested efficiency for the introduced stove model. It is already recognized that these values will be identified at each monitoring event and therefore that the standard deviation will be specific to each implemented stove model in each CPA.

4. The original version of the PoA-DD limited the distribution to one specific stove model. This has been changed to allow for newer models with higher levels of efficiency to be included.

However, the overall thermal efficiency eligibility is linked to the methodology minimum (20%). This is because stoves tend to lose efficiency over their lifetime, so a stove that starts at 40% efficiency might operate at 25% efficiency after 5 years use. However, even at this lower efficiency, the stove is still eligible for crediting emissions reductions under the methodology. So, the change allows for newer, more efficient models to be introduced in new CPAs, but also reflects the methodological eligibility of all stoves to generate emissions reductions after significant usage over their lifetimes, if they operate at over 20% thermal efficiency.

Documentation provided by project participant

DOE assessment

Date: 23/05/2019

1. The term wood fired has been reintroduced confirming the baseline fuel is wood only as it was in the registered PoA DD. The revised PoA DD mentions the information consistently. Closed.
2. The CME will assign a unique ID to each stove. However, CME shall explain the procedure to be used in order to draw a representative sample of the end-users in the absence of a database containing information on all end-users. Please refer to SSC_746. OPEN.
3. The standard deviation will be calculated for each stove model at the time of verification. The calculation presented in the PoA DD is mere an illustration to show standard deviation for the first stove model introduced. Closed.
4. The CME does not intend to distribute stoves with lower thermal efficiency. The minimum threshold efficiency has been added to just to add a criterion to be met any new model stove introduced under PoA. The thermal efficiency threshold 20% was found to be in line with the applied methodology. Closed.

Project participant response

Date : 23/05/2019

The sampling procedure has not been changed, as there will not be an absence of any end-user data. Every stove will be captured in the database with unique end-user data, including: unique stove reference number, username, location and date & time of installation.

However, the PDD language in 'Section B: Data Capture' on page 8 has been clarified further to reflect the previous field experience of the PP in collecting this data:

- GPS locations may not always be recordable / available / accurate in remote areas of Zambia
- Addresses may not exist, so a physical description of the location will suffice

Nothing has altered with respect to the uniqueness and completeness of end-user information collected with respect to each stove installed. There will be no absence on unique end-user data.

Documentation provided by project participant

DOE assessment

Date: 23/05/2019

The CME aims to collect the detailed location information for all the end users. For remote locations where the address may not exist and GPS ID may also not be recordable, the physical description of the location would be noted. Thus, all the end users listed in the database would be traceable.

The sample will be withdrawn from the entire population randomly as per the sampling plan and thus, the result would be representative of the population.

Thus, the CAR stands closed.

Table 2. CARs from this validation

CAR ID	02	Section no.	D.1.	Date	: 02/05/2019
Description of CAR					
<p>The template was found tampered.</p> <ol style="list-style-type: none"> 1. The title of section I.3. is inconsistent with the CDM-PoA-DD-FORM version 08.1 available on the UN website. 2. Appendix 5: was found missing from the PoA DD. 					
Project participant response					Date
These have been revised to make the template consistent.					: 07/05/2019
Documentation provided by project participant					
DOE assessment					
Template is now in line with the CDM-PoA-DD-FORM version 08.1 and therefore, the finding is closed.					Date: 09/05/2019

Table 3. FARs from this validation

FAR ID	xx	Section no.	xx	Date	: DD/MM/YYYY
Description of FAR					
There is no FAR raised from this validation					
CME's response					Date
xx					: DD/MM/YYYY
Documentation provided by CME					
xx					
DOE assessment					Date
xx					: DD/MM/YYYY

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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		