




Validation report form for post-registration changes for component project 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 component project activity (CPA)	African Improved Cooking Stoves Programme of Activities CPA 00007 (Ghana) supported by Republic of Korea, Ref: 5342-P1-0013-CP1 African Improved Cooking Stoves Programme of Activities CPA 00008 (Ghana) supported by Republic of Korea, Ref: 5342-P1-0014-CP1 African Improved Cooking Stoves Programme of Activities CPA 00009 (Ghana) supported by Republic of Korea, Ref: 5342-P1-0015-CP1	
Version number of the validation report	1.1	
Completion date of the validation report	23/11/2020	
Version number of PoA-DD and CPA-DD applicable to this validation report	Version Number of PoA-DD: 4.3 CPA-DD for 5342-P1-0013-CP1, Version: 2.0 CPA-DD for 5342-P1-0014-CP1, Version: 2.0 CPA-DD for 5342-P1-0015-CP1, Version: 2.0	
Title and UNFCCC ref. no. of the registered PoA into which the CPA is included	5342: African Improved Cooking Stoves Programme of Activities	
Type(s) of CPA PRCs	<input checked="" type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of monitoring plan <input type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities	
Coordinating/managing entity (CME)	Envirofit International Ltd.	
Host Parties	Host Party of the PoA	Is this the host Party of a CPA covered in this monitoring report? (yes/no)
	Ghana	Yes
	Nigeria	No
	Liberia	No
Applied methodologies and standardized baselines	AMS-II.G ver 3.0: Energy efficiency measures in thermal applications of non-renewable biomass	

	Standardized baseline: NA
Mandatory sectoral scopes	Sectoral scope: 3: Energy demand
Conditional sectoral scopes, if applicable	Not Applicable
Name and UNFCCC reference number of the DOE	Earthood Services Private Limited
Name, position and signature of the approver of the validation report	 Dr.Kaviraj Singh Managing Director

SECTION A. Executive summary

The aim of the PoA is the distribution of improved biomass cookstove in Ghana, Nigeria, and Liberia. Thus, PoA through the distribution of improved cookstoves, aims at reducing the GHG emissions by replacing the less efficient non-renewable biomass based cookstove with a more efficient one.

In the absence of the PoA, non-renewable biomass (wood and charcoal) is used as fuel in the traditional three stone cookstoves. The distributed stove has better efficiency; thus, it provides the same amount of energy with less fuel consumption and releases less GHG emission.

This validation report for PRC implemented CPAs 5342-P1-0013-CP1, 5342-P1-0014-CP1, 5342-P1-0015-CP1 (3 CPAs) included in the registered PoA-DD.

CPA reference number	Date of inclusion	Version of registered / approved CPA DDs
5342-P1-0013-CP1	12/04/2019	Version 2.0
5342-P1-0014-CP1	12/04/2019	Version 2.0
5342-P1-0015-CP1	12/04/2019	Version 2.0

Scope of validation

Earthood Services Private Limited is contracted by the CME to perform the validation of the post-registration changes proposed to the CPAs under verification. The scope of validation includes the assessment of the proposed PRCs primarily identified by CME as temporary deviations from the monitoring plan as well as part of verification assessment. This validation is an independent and objective review of all the post-registration changes proposed in revised CPA-DDs against criteria stipulated in latest valid versions of CDM VVS for PoA /4/, CDM PS for PoA /2/, CDM PCP for PoA /3/ 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 Monitoring Report Version 4.1 /5/ 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 review of the revised MR, supporting documentation and subsequent follow-up actions (interviews) have provided ESPL with sufficient evidence to determine the fulfilment of stated criteria.

ESPL has performed the validation of the post registration changes to the CDM PoA "African Improved Cooking Stoves Programme of Activities" having UNFCCC Ref. Number 5342. The post registration change was identified during the verification for the 7th monitoring period - **01/07/2019 – 31/03/2020** of the PoA. It is the second verification for the CPAs under verification.

The proposed post registration change includes the following:

a) During this monitoring period a temporary deviation from the registered monitoring plan occurred as CME did not monitor the implemented stoves of model number CH5200 and CH5300 as per the sampling plan.

The validation of post registration changes concluded that the type of changes proposed in the revised MR Version 4.1, dated:20/08/2020 /5/ can be submitted as along with the request of issuance in-line with para 168 (a) of the PCP for PoA/3/ and hence requires to propose the changes in the monitoring report and does not require prior approval by the CDM EB as per procedures. The validation confirms that the proposed post registration changes comply with all the relevant CDM requirements of the applied methodology and all other applicable tools and guidance.

This report is the combined assessment opinion for all the changes from the public MR and request is hereby submitted with issuance request to CDM EB.

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.	Verifier	IR	Vatsa	Vaishali	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	Wealth	Moses Dada	Central Office	Y	N	Y	Y

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	Gautam	Ashok	Central Office
2.	TA to TR	IR	Gautam	Ashok	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 of this report.

C.2. On-site inspection

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

The temporary deviation was identified at the time of Desk-review as CME did not monitor the implemented stoves of model number CH5200 and CH5300 during current monitoring period (01/07/2019 – 31/03/2020) for the entire monitoring period (i.e., 01/07/2017 to 31/03/2019). Following para 228 (a) of the PS for PoA Version 2, temporary deviation was proposed during the current monitoring period. No separate site-visit was conducted for the scope of validation of PRC. The team conducted remote survey for verification as explained in the verification report/6/. Since the temporary deviation was identified during verification and the scope is not complete validation of the PoA and in-acordance with para 184 of the VVS for PoA/4/ it is optional for the DOE to conduct on-site assessment. A thorough desk review conducted by the validation team was used as an alternative means to validate the temporary deviation.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Lohia	Rohit	Envirofit International	21/08/2020 (Over-skye)	Post-registration changes Temporary deviations	Deepika Mahala, Vaishali Vatsa
2.	Ozaore	Biodun	Envirofit (Director)	21/08/2020 (Over-skye)	Post-registration changes	Deepika Mahala, Vaishali Vatsa
3.	Osacnyarko	Emmanuel	Envirofit (Ghana)	21/08/2020 (Over-skye)	Post-registration changes	Deepika Mahala, Vaishali Vatsa
4.	Cudjoe Ahiekpor	Julius	Kumasi Technical University	21/08/2020 (Over-skye)	Post-registration changes	Deepika Mahala, Vaishali Vatsa

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	-	-	-
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	CL#01	-	-
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 methodological regulatory documents	-	-	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation activities	-	-	-
Others (please specify)	-	-	-
Total	01	00	00

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

Means of validation	This PRC proposes only temporary deviation in-line to para 168 (a). Thus, as per para 169 of PCP for PoA /3/ the changes were required to be reflected only in the MR and does not require any revision in the CPA-DDs/7/.
Findings	No findings were raised
Conclusion	Not Applicable

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

Means of validation	<p>As part of the seventh verification for the PoA, covering the monitoring period 01/07/2019 – 31/03/2020, the monitoring report /5/ consists of a total of three CPAs, (CPA Ref. 5342-P1-0013-CP1, 5342-P1-0014-CP1 and 5342-P1-0015-CP1), which are undergoing their second periodic verification. For the stated CPAs under verification, the verification team found temporary deviations from the registered monitoring plan.</p> <p>1. Temporary deviation for not following the monitoring plan in line with the registered monitoring plan/7/:</p> <p>The PoA involves distribution of improved biomass cookstoves.</p>
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	<p>The registered monitoring plan requires that all the stoves implemented by the CME will be included in monitoring exercise, Sampling and Emission reduction calculations. The CME did not monitor the implemented stoves for model numbers CH5200 and CH5300 for the entire monitoring period (i.e. from 01/07/2019- 31/03/2020). The reason for not monitoring the stove models (CH5200 and CH5300) by the CME for the entire MP (i.e. 01/07/2019-31/03/2020) was due to the implementation of small number of these two stove models. The validation team checked the ICS database/10/ and confirmed that their number is less than 5% of the total population and thus, can be considered small. Due to the implementation of these stoves in small numbers, CME opted for not including these stoves in sampling database, monitoring exercise or ER calculation.</p> <p>Thus, CME sought temporary deviation for this non-conforming monitoring period in line with para 228 (a) of PS for PoA version 2.0/2/.</p> <p>The length of the monitoring period under verification is 9 months from 01/07/2019 to 31/03/2020 (i.e.275 days).</p> <p>Accordingly, CME has identified that the implemented stoves under stove models CH5200 and CH5300 have not been included in the any of the monitoring exercise, sampling and emission reduction calculations.</p> <p>Since the CME has failed to follow the registered sampling plan, an alternative approach has been followed in-line to para 228(a) of PS for PoA Version 2.0/2/. Following 228(a), the CME has not considered / claimed any CERs for the stoves implemented for these stove models CH5200 and CH5300 for the entire non-conforming monitoring period i.e. 01/07/2019 to 31/03/2020.</p> <p>Thus, the alternative approaches were accepted by the verification team. The temporary deviation is sought for the entire period of 9 months i.e. from 01/07/2019- 31/03/2020. The end-date of the temporary deviation i.e. 31/03/2020 is same as the end date of the monitoring period.</p> <p>The CME would continue to monitor all the data required for calculation of emissions reductions and conduct the sampling for all the implemented stoves as per the registered monitoring plan in future.</p> <p>Since, the applied values were found to be the most conservative values and temporary deviation has been proposed for the current monitoring period for the CPAs under consideration in-line to para 168(a) of PCP for PoA , this request will be submitted along with the issuance request..</p>
Findings	CAR#01 was raised and resolved.
Conclusion	<p>The DOE confirms that</p> <ul style="list-style-type: none"> • The deviation applies for the monitoring period from 01/07/2019 to 31/03/2020 (as per para 251 of CDM VVS PoA Version 2 /4/). • There will be no over-estimation of emission reductions due to deviation as the assumptions and formulae are applied in a conservative manner. • The deviation complies with the relevant requirements related to the temporary deviation from the registered monitoring plan as prescribed in the PS for PoA/2/ and VVS for PoA/4/.

D.3. Corrections

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.4. Changes to the start date of the crediting period

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.5. Inclusion of monitoring plan

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.7. Changes to the project design

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.8. Changes specific to afforestation and reforestation activities

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

SECTION E. Internal quality control

A draft validation report that is prepared by assessment team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is 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 scope the project activity relates to. All team members of the technical review team are independent of the assessment 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 before the request for registration is submitted to UNFCCC. 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 need to be resolved by the assessment team. The decision taken by the Technical Reviewer is final and authorized on behalf of Earthood Services Private Limited.

SECTION F. Validation opinion

Earthood Services Private Limited (Earthood) has performed a validation of the post-registration changes of the 3 CPAs (5342-P1-0013-CP1 to 5342-P1-0015-CP1) project activity included under the PoA titled "African Improved Cooking Stoves Programme of Activities (UN Reference number - 5342)". Earthood is accredited for the validation function for specific sectoral scopes (3: Energy demand) the CDM programme of activity falls into.

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the registered CPA-DDs/7/, applied methodology/8/, supporting documentation and subsequent follow-up actions (including interviews), have provided Earthood with sufficient evidence to determine the fulfilment of stated criteria.

It is Earthood's opinion that the temporary deviation proposed in the monitoring report do not raise any concern with regards to the applicability of established baseline, additionality or scale of the project activity. The changes are only applicable for the current monitoring period and does not have any impact on the registered CPA-DDs.

The changes are only in the Monitoring Report of the current monitoring period. Therefore, the PRC request is being submitted along the issuance as per Appendix 2 of PS for PoA version 2.0/2/.

Appendix 1. Abbreviations

Abbreviations	Full texts
AQL	Acceptable Quality Level
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
CPA	Component Project Activity
CP	Crediting period
DOE	Designated Operational Entity
DNA	Designated National Authority
EB	Executive Board
ESPL	Earthood Services Private Limited
FAR	Forward action request
GHG	Green House Gases
ICS	Improve Cook Stoves
IPCC	Intergovernmental Panel on Climate change
POA	Programme Of Activity
PO	Partner Organization
PSU	Primary Sampling Unit.
TA	Technical Area
TR	Technical Reviewer
VVS	Validation and Verification Standard
UNFCCC	United Nation Framework convention on Climate change
WBT	Water Boiling Test

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	Vaishali Vatsa		
Education	M.Sc. (Environmental Studies and Resource Management), TERI University		
Experience	4 months		
Field	Climate Change		
Approved Roles			
Team Leader	NO		
Validator	Yes		
Verifier	Yes		
Methodology Expert	NO		
Local expert	NO		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	NO		
Trainee	NO		
Reviewed by	Shreya Garg	Date	30/12/2019
Approved by	Anshika Gupta	Date	02/01/2020

Competence Statement			
Name	Ashok Gautam		
Country	India		
Education	M. Sc. (Environmental Sciences) M. Tech. (Energy & Environmental Management)		
Experience	16 Years +		
Field	Energy, Climate Change & Environment		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS-I.D., AMS-I.A., AMS-I.C., AMS-I.E, AMS-II.D., AMS-II.G., AMS-III.E., AMS-III.H., AMS-III.Q, AMS-III.Z., AMS-III.AV., AMS III.AR, AM0029, AM0025, AM0056, ACM0001, ACM0002, ACM0004, ACM0012, ACM0006, AM0018, ACM0009, AM0034, AMS.I.B, ACM0003		
Local expert	YES (India)		
Financial Expert	YES		
Technical Reviewer	YES		
TA Expert	YES (TA 1.1, TA 1.2, TA 3.1, TA 13.1)		
Reviewed by	Shreya Garg	Date	25/05/2020
Approved by	Kaviraj Singh	Date	25/05/2020

Competence Statement			
Name	Moses Dada Wealth		
Country	Ghana		
Education	Advanced Diploma (Chemical Engineering)		
Experience	7 years +		
Field	Water Treatment, Oil Storage and Transporting		
Approved Roles			
Team Leader	NO		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	YES (Ghana)		
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

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Envirofit International Ltd	Registered PoA-DD Revised accepted PoA DD	Version 3.2, dated 27/11/2012 Version 4.3 Dated:07/06/2014	Others
2	UNFCCC	PS for PoA	Version 2.0	Others
3	UNFCCC	PCP for PoA	Version 2.0	Others
4	UNFCCC	VVS for PoA	Version 2.0	Others
5	Envirofit International Ltd	Monitoring Report (public) Monitoring Report (final)	Version 1.0 dated 16/05/2020 Version 4.1 dated 20/08/2020	CME
6	ESPL	Verification Report (7 th)	Version 3.1	Others
7	Envirofit International Ltd	Registered CPA-DD-007 (5342-P1-0013-CP1) Registered CPA-DD-008 (5342-P1-0014-CP1) Registered CPA-DD-009 (5342-P1-0015-CP1)	Version 2.0 Dated:15/03/2019	Others
8	UNFCCC	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass	Version 3.0	Others
9	Envirofit International Ltd	Emission Reduction Sheet	14/08/2020	CME

10	Envirofit International Ltd	ICS database	-	CME
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Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this validation

CL ID	xx	Section no.	NA	Date: DD/MM/YYYY
Description of CL				
NA				
CME's response				Date: DD/MM/YYYY
NA				
Documentation provided by CME				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CARs from this validation

CAR ID	01	Section no.	E.2.1	Date : 20/07/2020
Description of CAR				
1. The ICS models CH5200 and CH5300 have not been considered as part of the population for conducting the sampling. CME shall explain how it this does not qualify as temporary deviation from registered monitoring plan as per para 228 of PS for PoA version 2.0.				
Project participant response				Date: 21/08/2020
1. Temporary deviation has been sought.				
Documentation provided by project participant				
CH5200/CH5300 database is being submitted.				
DOE assessment				Date: 25/08/2020
1. The ICS database shared by CME for model no.CH5200 and CH5300 were checked and it was confirmed that both the models were implemented in less than 5% of the total population thus, the CME has not included these stoves in any of the monitoring exercise, sampling and emission reduction calculations. Thus, the temporary deviation in this regard was considered and was found to be acceptable.				
Thus, the CAR stands closed.				

Table 3. FARs from this validation

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

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	31 May 2019	Revision to: <ul style="list-style-type: none">• Ensure consistency with version 02.0 of the “CDM validation and verification standard for programmes of activities” (CDM-EB93-A08-STAN);• Make editorial improvements.
01.0	29 December 2017	Initial publication.

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