




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)	Title and UNFCCC reference number of the CPA: RDIS Rwanda CPA 1 (RDISRw01) 7014-0007-CP1 Aid Africa Uganda CPA 1 (AAUg01) 7014-0009-CP1
Version number of the validation report	04
Completion date of the validation report	26/08/2020
Version number of PoA-DD and CPA-DD applicable to this validation report	Version of the PoA-DD: Version 26 Version of the CPA-DD (RDIS Rwanda CPA 1): Version 01 Version of the CPA-DD (Aid Africa Uganda CPA 1): Version 02
Title and UNFCCC ref. no. of the registered PoA into which the CPA is included	Title: Improved Cook Stoves for East Africa (ICSEA) UNFCCC reference number: 7014
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)	Improved Cook Stoves for East Africa (ICSEA) Limited
Host Parties	Rwanda & Uganda
Applied methodologies and standardized baselines	Applied methodology: AMS-II.G. Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass (version 03) AMS-I.E. Switch from non-renewable biomass for thermal applications by the user (version 06.0) Standardized baseline: N/A
Mandatory sectoral scopes	Sectoral Scope 01 & 03
Conditional sectoral scopes, if applicable	N/A

Name and UNFCCC reference number of the DOE	Name: KBS Certification Services Pvt. Ltd. UNFCCC reference number: E-0051
Name, position and signature of the approver of the validation report	 Kaushal Goyal Managing Director KBS Certification Services Pvt. Ltd.

SECTION A. Executive summary

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KBS Certification Services Pvt. Ltd. has been contracted by “*Improved Cook Stoves for East Africa (ICSEA) Limited*” (CME) to perform a validation of the post-registration changes (*temporary deviation from registered monitoring plan*) for the following CPAs together with the request for issuance which is in accordance with para 227 of CDM project standard for programme of activities, Version 02.

1. RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1
2. Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1

The above CPAs are already included in the PoA 7014 (*Improved Cook Stoves for East Africa (ICSEA)*). The independent validation by the DOE is required to confirm the post registration changes to the CDM PoA comply with the relevant requirements in the “CDM project standard for programmes of activities” (PS-PoA) Ver. 02 and CDM Validation and Verification Standard for programmes of activities (VVS-PoA) Ver. 02. This report summarizes the post registration changes (*temporary deviation from registered monitoring plan*) of the CDM CPAs with respect to the VVS requirements.

Objective:

The objective of a validation is to provide a thorough and independent third-party assessment of the post-registration changes. In particular, the changes compliance with relevant UNFCCC and host country criteria is validated in order to confirm that the changes meet the applicable CDM requirements and the identified criteria.

Scope of the validation:

The scope of the validation is defined as an independent and objective review of the included CPAs, PoA-DD, the baseline, monitoring plan and other relevant documents. The information in these documents is reviewed against the CDM Validation and Verification Standard for PoA (version 02), Project Cycle Procedure for PoA (version 02) and Project Standard for PoA (version 02), Kyoto Protocol requirements and UNFCCC rules.

The report is based on the assessment of the CPA-DDs, PoA-DD, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

Purpose, general description and location:

The purpose of this small-scale Programme of Activities (PoA) is to stimulate the dissemination of improved cook stoves (ICS) by the provision of access to carbon finance from the creation and sale of Certified Emission Reductions (CERs). The Supplier Organisations (SOs) are the CPA implementers who have been active in the purchase/production, marketing, distribution, sales and maintenance of their respective stove models.

This CPA shall be active in the production, marketing, distribution and sales of portable/fixed, domestic/institutional, charcoal/firewood improved cook stoves (ICS) not exceeding the small-scale energy limits of 45 MWth for AMS-I.E (Type I), and of 180 GWhth for AMS-II.G (Type II) as set out by the CDM EB.

The ICS may be fuelled with traditional non-renewable biomass or with renewable biomass as a fuel switch to replace the use of non-renewable biomass. In some cases the Supplier Organisations (SOs) may be renewable biomass fuel suppliers, especially if they are organisations that create substantial amounts of biomass waste (such as from processing coffee, flowers, sugar, rice or similar commodities). In some cases however, the stove users may use biomass waste they generate on their own. This CPA will cover the distribution of ICS that may use different fuels during a monitoring period. This will be assessed during the stove usage surveys.

These ICS are more efficient in transferring heat to the cooking pots, thus ICS require less fuel to prepare the same meal. This efficiency is translated into fuel savings compared to traditional stoves used in Uganda. By reducing fuel consumption, the CPA reduces greenhouse gas emissions from the use of fuel. In addition the use of non-renewable biomass may also be replaced by the use of renewable biomass from various sources. This reduction in fuel consumption based on the efficiency increase or the replacement of nonrenewable biomass is estimated, and corresponding CO₂ emission reductions are calculated from these savings. For stoves that use AMS-II.G the emission reductions will be based upon an improvement in their thermal efficiency and laboratory test results. For stoves that use AMS-I.E the emission reductions will be based upon the calculation of the number of appliances multiplied by the annual average consumption of woody biomass (tonnes/year).

Validation process:

KBS follows a rule based validation approach, wherein, as a first step, the contract review is undertaken as per latest version of CDM Accreditation Standard. Subsequently, after the contract is signed, a desk review of the programme of activity documentation is undertaken. The validation protocol is filled by the validation team that is based on standard auditing practices and version 02.0 of CDM VVS for PoA, to capture the assessment of applicable CDM requirements viz., version 02.0 of CDM Project Standard for PoA, applied methodology/ies, applied standardized baseline and/or tools and recent decisions. The validation protocol provides transparent means to record the observations and compliances by the validation team members and the nonconformities, if any. The validation protocol is an internal document, and is available on request.

Following are the major milestones for the Validation under consideration.

Validation contract	18/07/2019
Draft Validation Report	09/05/2020
Final Validation Report	26/08/2020

The validation has been performed as described in the VVS for PoA (version 02.0) and constitutes the following steps:

- Review of the revised/registered PoA-DD/CPA-DDs;
- Desk review of the relevant documents related to registered/revised PoA-DD/CPA-DDs and other documents.
- Interview with representatives of the CME

The following temporary deviation are identified during the verification of the 2nd monitoring period (15/03/2013 to 16/08/2019) of the CPAs (*RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1*, *Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1*), which is summarized as follows:

Post Registration Changes	
Sl. No.	PRC to the Version 01 of the CPA-DD (RDIS Rwanda CPA 1) & Version 02 of the CPA-DD (Aid Africa Uganda CPA 1)
Temporary Deviation	
1.	As per the registered CPA-DDs (<i>(RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1</i> , <i>Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1</i>)), the following parameters shall be monitoring biennially: <ol style="list-style-type: none"> 1. $\eta_{new,(i,j)}$ (all CPAs) 2. $U_{(i,j)}$ (all CPAs) 3. $U_{(i,j)} \text{ AMS-I.E (all CPAs)}$

The above parameters have been considered in the monitoring period during the monitoring survey. Further the following monitoring parameters are additionally covered (for cross check comparison purpose) in the monitoring survey conducted by the CME:

1. N_y (all CPAs)
2. $t_{\text{fraction},(i,j)}$ (all CPAs)
3. $t_{\text{fraction},(i,j), \text{AMS-IE}}$ (all CPAs)
4. Adjustment factor for the continued use of traditional stoves(all CPAs)

However the biennial monitoring frequency has not been followed. However the conservative approach has been followed in the calculation of emission reductions, when the biennial frequency has not been followed for the surveys conducted for the above two CPAs, which is found correct by the assessment team. The detailed explanation has been provided in the following sections of the validation report.

Conclusion:

The review of the PoA-DD/CPA-DDs and the subsequent follow-up interviews have provided KBS with sufficient evidence to determine the PoA/CPA fulfillment of all the stated criteria.

Furthermore, we confirm that:

- the proposed revision points have been described, and an assessment has been provided to substantiate the reasons for each of the proposed deviation points from the registered CPA-DDs of the registered PoA-DD, using objective evidence;
- the proposed deviation from the CPA-DDs ensures that the level of accuracy and completeness in the monitoring and verification process is not reduced as a result of the deviation;
- the proposed deviation in the monitoring plan ensures the conservativeness of the emission reductions calculation;
- The approval of post-registration changes has been requested together with the request for issuance which is in accordance with para 246 of VVS for PoA Version 02.

In our opinion, the CDM programme of activity meets all applicable UNFCCC requirements for the CDM.

☒ The CDM programme of activity will be recommended to the CDM Executive Board for the approval of post-registration changes.

☐ The CDM programme of activity is not recommended for the approval of post-registration changes.

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation team member

No.	Role		Last name	First name	Affiliation	Involvement in
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					(e.g. name of central or other office of DOE or outsourced entity)	Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader & Technical Expert (TA 1.1 & 3.1)	IR	Badaya	Rohit	Central Office	✓	✓	✓	✓
2.	Technical Expert (TA 3.1) & Local Expert (Rwanda)	EI	Lubanga	David	Central Office	✓	✓	✓	
3	Technical Expert (TA 3.1) & Local Expert (Uganda)	EI	Veronica	Namazzi Gloria	Central Office	✓	✓	✓	
4	Local Expert (Kenya)	EI	Okore	Martin Luther King	Central Office	✓	✓	✓	

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 & Technical Expert (TA 1.1, 3.1)	IR	Kandari	Sanjay	Central Office
2.	Manager Technical & Certification	IR	Nanda	Dr. Madhuri	Central Office
3.	Authorizer	IR	Goyal	Kaushal	Central Office

SECTION C. Means of validation

C.1. Document review

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The validation is performed primarily as a document review of the available CPA-DD of the CPAs (*RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1 and Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1*) and the registered/revised PoA-DD and the monitoring report under verification. The report is based on the assessment of the monitoring report, CPA-DDs/PoA-DD, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

The cross checks between information provided in the CPA-DDs/PoA-DD and information from sources other than those used, if available, the validation team's sectoral or local expertise and, if necessary, independent background investigations.

All the documents used for arriving validation conclusion are listed in Appendix 03 and referenced accordingly in validation report.

C.2. On-site inspection

Duration of on-site inspection: 12/02/2020 to 14/02/2020 (Kenya), 18/02/2020 to 21/02/2020 (Rwanda), 18/02/2020 to 20/02/2020 (Uganda)				
No.	Activity performed on-site	Site location	Date	Team member
1.	An on-site assessment was conducted as a part of verification activity and involved: 1) an assessment of the implementation and operation of the CPAs as per the validated PoA DD and CPA-DDs. 2) a review of information flows for generating, aggregating and reporting of the monitoring parameters. 3) Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the Monitoring Plan. 4) a cross-check between information provided in the MR and data from other sources. 5) a check of the monitoring equipment including calibration performance, and observations of monitoring practices against the requirements of the CPA-DD and the applied methodology. 6) a review of calculations and assumptions made in determining the GHG data and ERs, and 7) an identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters	Project sites in Kenya, Rwanda and Uganda. Visit to sample households of Improved Cookstoves, interviews with the stove manufacturer, SOs Office in Kenya, Rwanda and Uganda, SOs staff and Monitoring survey team	12/02/2020 to 14/02/2020 (Kenya), 18/02/2020 to 21/02/2020 (Rwanda), 18/02/2020 to 20/02/2020 (Uganda)	Rohit Badaya (Team Leader & Technical Expert) David Lubanga (Rwanda Local Expert & Technical Expert), Namazzi Gloria Veronica (Uganda Local Expert & Technical Expert), Martin Luther King Okore (Kenya Local Expert)

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Langat	Reuben	EHS Manager, James Finlay (Kenya) Limited	12/02/2020 to 14/02/2020 (Kenya)	Project implementation and operation, monitoring procedure, data and information flow, Roles and responsibility, Quality Assurance – Management and operating system, Sales/Distribution records, Survey records, Qualification and Training	Rohit Badaya (Team Leader & Technical Expert)
2	Miheso	Mercy	H & S Assistant, James Finlay (Kenya) Limited			Martin Luther King Okore (Kenya Local Expert)
3	Jepleting	Sellah	Social Responsibility, James Finlay (Kenya) Limited			
4	Farmer	Bill	Chairman, ICSEA			
5	Lamhat	Gilbert	Sales Associates, Ecozoom			
6	Rono	Daniel	Assistant Manager, JFK Tenduet			

7	Rotoh	Victor	Field Assistant, JFK Tenduet			
8		Wesley	Assistant Manager, Kaproret			
9	Andati	Jedidah	Supervisor, JFK Kaproret			
10	Againg	Wilson	Mason, JFK			
11	Chepkwong	Paul	Artisan, JFK HRD			
12	Rono	Gilbert	Admin Assistant, JFK HRD			
13	Kete	John	Field Assistant, JFK			
14	Sang	Samwel	Estate Manager, JFK Chemasingi			
15	Lungut	Kipngetich	Field Assistant, JFK-Chemasingi			
16		Donald	Health & Safety Officer, JFK-Forestry	18/02/2020 to 21/02/2020 (Rwanda)	Project implementation and operation, monitoring procedure, data and information flow, Roles and responsibility, Quality Assurance – Management and operating system, Sales/Distribution records, Survey records, Qualification and Training	David Lubanga (Rwanda Local Expert & Technical Expert),
17	Kihuguru	Sarah	Senior Consultant, ICSEA Ltd.			
18	Desire	Bisama	Monitoring Officer, RDIS			
19	Eric	Bagenzi	Project Manager, RDIS			
20	Madete	Richard	Consultant, RDIS			
21	Ntarindwa	Viateur	ES, RDIS	18/02/2020 to 20/02/2020 (Uganda)	Project implementation and operation, monitoring procedure, data and information flow, Roles and responsibility, Quality Assurance – Management and operating system, Sales/Distribution records, Survey records, Qualification and Training	Namazzi Gloria Veronica (Uganda Local Expert & Technical Expert),
22	Benywanira	Urbans	Carbon Finance Specialist, ICSEA			
23	Freda	Amolo	Assistant Manager, Aid Africa			
24	Scoria Radisal	Noalo	Aid Africa			
25	Bosco	Odong John	Hydrologist, Aid Africa			
26	Ocaya	Richard	Accountant, Aid Africa			
27	Otuukene	Issa too	Manager, Aid Africa			
28	Isaac	Okello	Aid Africa			
29	Acclve	Lilly	Field Office, Aid Africa			

30	Didone	Chiara	Aid Africa			
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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	-	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	00	01	00

SECTION D. Validation findings

D.1. Compliance with CPA-DD form

Means of validation	Not Applicable as the temporary deviation has been sought during the monitoring period
Findings	Not Applicable as the temporary deviation has been sought during the monitoring period
Conclusion	Not Applicable as the temporary deviation has been sought during the monitoring period

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

Means of validation	<p>As per the registered CPA-DDs ((<i>RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1, Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1</i>)), the following parameters shall be monitoring biennially:</p> <ol style="list-style-type: none"> 1. $\eta_{new,(i,j)}$ (all CPAs) 2. $U_{(i,j)}$ (all CPAs) 3. $U_{(i,j) AMS-I.E}$ (all CPAs) <p>The above parameters have been considered in the monitoring period during the monitoring survey. Further the following monitoring parameters are additionally covered (for cross check comparison purpose) in the monitoring survey conducted by the CME:</p> <ol style="list-style-type: none"> 1. N_y (all CPAs) 2. $t_{fraction,(i,j)}$ (all CPAs) 3. $t_{fraction,(i,j), AMS-I.E}$ (all CPAs) 4. Adjustment factor for the continued use of traditional stoves(all CPAs) <p>The surveys for the above monitoring parameters (except efficiency) were implemented in September 2019 for the CPA (7014-P1-0007-CP1 RDIS). While the Efficiency tests corresponding to the parameter ($\eta_{new,(i,j)}$) for the CPA (7014-P1-0007-CP1 RDIS) was implemented on 28/10/2019. In the case of the CPA (7014-P1-0007-CP1 RDIS), the CPA implementation date (first stove distributed)</p>
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	<p>was 14/06/2017 and the monitoring frequency as per the registered CPA-DD is biennial; however the same has not been followed. As a conservative approach, CME has only counted the emission reductions for the period of 2 years prior to the efficiency test implementation date (28/10/2019). The ICS days-in-use period from 14/06/2017 to 06/11/2017 have not been considered in the calculations. So effectively the ICS days-in-use have only been counted from 07/11/2017 onwards until the end of the monitoring period (16/08/2019) which is within 2-year period of the survey/test implementation date. Hence a conservative approach has been followed in the emission reduction calculations.</p> <p>Further in case of the CPA: 7014-P1-0009-CP1 Aid Africa Uganda CPA 1 (AAUg01) the implementation date was 10/02/2017 and the surveys for the above monitoring parameters were implemented in September 2019. Since the crediting period start date of the CPA was 01/02/2018, hence the emission reductions have only been claimed from the date of 01/02/2018. Since the date (01/02/2018) is within two years of the Survey implementation date (October 2019) and hence emission reductions have only been claimed for the period of less than 2 years from the survey date.</p> <p>Hence the conservative approach has been followed in the calculation of emission reductions, when the biennial frequency has not been followed for the surveys conducted for the above two CPAs, which is found correct by the assessment team. In this regard, this PRC (temporary deviation request) report is being submitted along-with the verification report.</p>
Findings	CAR 01 was raised and successfully closed. The resolution of the CAR/CL is detailed in Appendix 4 of this report.
Conclusion	<p>Based on the review of PoA-DD and interview with CME, the validation team has accepted all the proposed deviation during the monitoring period in accordance with requirements of VVS for PoA (version 02.0). The assessment team confirms that the deviation is an accurate reflection of actual project information and the corrected parameters are in accordance with the applied methodology, the monitoring plan.</p> <p>As per Para 246 & Section 9.2 of VVS-PoA Version 02, the validation team confirm that:</p> <ul style="list-style-type: none"> the corrected information is an accurate reflection of actual information; or the proposed revision points have been described, and an assessment has been provided to substantiate the reasons for each of the proposed deviation points from the registered CPA-DDs of the registered PoA-DD, using objective evidence; the proposed deviation from the CPA-DD ensures that the level of accuracy and completeness in the monitoring and verification process is not reduced as a result of the deviation; the proposed deviation in the monitoring plan ensures the conservativeness of the emission reductions calculation; The approval of post-registration changes has been requested together with the request for issuance which is in accordance with para 246 of VVS for PoA Version 02. <p>Hence, the deviation request has been accepted by the assessment team.</p>

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

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Following the completion of the assessment process and a recommendation by the assessment team, the validation opinion prepared by Team Leader is independently reviewed by internal Technical Reviewer. TR reviews if all the KBS procedures have been followed and all conclusions are justified in accordance with applicable standards, procedures, guidance and CDM decisions. The TR either is qualified for the technical area within the CDM sectoral scope(s) applicable to project activity or is supported by qualified independent technical expert at this stage.

The Technical Reviewer will either accept or reject the recommendation made by the assessment team. The findings can be raised at this stage and PP must resolve them within agreed timeline.

The opinion recommended by Technical Reviewer will be confirmed by Manager Technical & Certification and finally authorized by the Managing Director on behalf of KBS as final validation opinion. The Technical Reviewer and Manager T&C may be the same person.

SECTION F. Validation opinion

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KBS Certification Services Pvt. Ltd. has been contracted by "*Improved Cook Stoves for East Africa (ICSEA) Limited*" (CME) to perform a validation of the post-registration changes (temporary deviation) for the following CPAs together with the request for issuance which is in accordance with para 227 of CDM project standard for programme of activities, Version 02.

1. RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1
2. Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The programme of activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the generic PoA-DD. In our opinion, the programme of activity meets all relevant UNFCCC, CDM criteria and all relevant host country criteria.

The review of the PoA-DD/CPA-DDs and the subsequent follow-up interviews has provided validation team with sufficient evidence to validate the post-registration changes. The deviation in the monitoring plan is in line with the requirements of the VVS for PoA, version 02.

The monitoring arrangements described in the monitoring plan are feasible within the PoA-DD/CPA-DD, and it is validation team's opinion that the CME/CPA Implementer are able to implement the monitoring plan.

In summary, it is validation team's opinion that the temporary deviation from the monitoring plan for the CPAs ((*RDIS Rwanda CPA 1 (RDISRw01) 7014-P1-0007-CP1*, *Aid Africa Uganda CPA 1 (AAUg01) 7014-P1-0009-CP1*)) meets all relevant UNFCCC requirements for post-registration changes. Hence KBS requests for the approval of post-registration changes together with the request for issuance for the PoA which is in accordance with para 246 of VVS for PoA Version 02.

Appendix 1. Abbreviations

Abbreviations	Full texts
AAUg01	Aid Africa Uganda CPA 1
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CIRCODU	Center for Integrated Research and Community Development Uganda
CL	Clarification request
CME	Coordinating/managing entity
CO ₂	Carbon dioxide
COP	Conference of Parties
CPA	Component Project Activity
CREEC	Centre for Research in Energy and Energy Conservation
DOE	Designated Operational Entity
DNA	Designated National Authority
ERs	Emission Reductions
FAR	Forward Action Request
fNRB	Fraction of Non-Renewable Biomass
GACC	Global Alliance for Clean Cooking
GHG	Greenhouse gas(es)
ICS	Improved Cook Stove
ICSEA	Improved Cook Stoves for East Africa
IEA	Institute of Economic Affairs, Kenya
IPCC	Intergovernmental Panel on Climate Change
JFKKe01	James Finlay Kenya CPA 1
KBS	KBS Certification Services Pvt. Ltd.
KEREA	Kenya Renewable Energy Association
LDC	Least Developed Country
LPIP	Local Project Implementation Partners
MOP	Meeting of Parties
MP	Monitoring Plan
MR	Monitoring Report
NCV	Net Calorific value
PE	Project Emissions
PRC	Post Registration Changes
RDISRw01	RDIS Rwanda CPA 1
QA/QC	Quality Assurance/Quality Control
SO	Supplier Organization
TA	Technical Area
T&C	Technical & Certification
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation & Verification Standard
WBT	Water Boiling Test
WHO	World Health Organization

Appendix 2. Competence of team members and technical reviewers

Personnel Name:		Rohit Badaya	
Qualified to work as:			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
Energy industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
	TA 1.2: Energy generation from renewable energy sources		
Energy distribution	TA 2.1: Energy distribution		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Solid waste and wastewater TA 13.2 Manure		
Approved By	Manager Competency & Training		
Approval date:	29/12/2018		

Personnel Name:		Martin Luther King Okore	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert (Kenya)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
NA	NA		
Approved by (Manager C & T)	Sanjay Kandari		
Approval date:	25/07/2018		

Personnel Name:		Namazzi Gloria Veronica	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert (Uganda)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
NA	NA		

Approved by	Manager Competency & Training
Approval date:	13/02/2020

Personnel Name:		David Lubanga	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert (Rwanda)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope		Technical Area	
NA		NA	
Approved by		Manager Competency & Training	
Approval date:		13/02/2020	

Personnel Name:		Sanjay Kandari	
Qualified to work as:			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope		Technical Area	
Energy Industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Waste Handling and Disposal TA 13.2 Manure		
Approved by (Manager C & T)		Akhilesh Joshi	
Approval date:		11/12/2015	

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	CME	Monitoring Report	Version 04, dated 03/12/2019	CME
2	CME	Final Monitoring Report	Version 12, dated 18/08/2020	CME
3	CME	ER calculation sheet for all the CPAs (corresponding to the initial version of monitoring report)	Version 04, dated 03/12/2019	CME
4	CME	Final ER calculation sheet for all the CPAs (corresponding to the final version of monitoring report)	Version 12, dated 18/08/2020	CME
5	CME	Revised approved PoA-DD	Version 26, dated 05/12/2019	UNFCCC
6	CME	Specific CPA-DD of CPA reference no. (7014-P1-0009-CP1)	Version 02, dated 17/01/2018	UNFCCC
7	CME	Specific CPA-DD of CPA reference no. (7014-P1-0008-CP1)	Version 01, dated 26/10/2016	UNFCCC
8	CME	Specific CPA-DD of CPA reference no. (7014-P1-0007-CP1)	Version 01, dated 26/10/2016	
9	CME	Monitoring Report for the PoA corresponding to the 1 st Verification	Version 2.0, dated 08/07/2014	UNFCCC
10	CME	Validation Report of CPA reference no. (7014-P1-0009-CP1)	Version 02, dated 17/01/2018	UNFCCC
11	CME	Validation Report of CPA reference no. (7014-P1-0008-CP1)	Version 02, dated 31/10/2016	UNFCCC
12	CME	Validation Report of CPA reference no. (7014-P1-0007-CP1)	Version 02, dated 31/10/2016	UNFCCC
13	Carbon Check (India) Private Limited	PRC Validation Report for the PoA	Version 01, dated 05/12/2019	UNFCCC
14	TUV Rheinland (China) Ltd.	Validation Report for the PoA	Version 1.5, dated 24/10/2012	UNFCCC
15	Carbon Check (India) Private Limited	Verification Report for the PoA corresponding to the 1 st Verification	Version 03, dated 16/07/2014	UNFCCC
16	Manufacturer	Technical specifications of the ICS installed under the CPAs	-	CME
17	Stat Trek	Random Sample Generator for the households of each of the CPAs http://stattrek.com/statistics/random-number-	-	CME

		generator.aspx		
18	CME	Monitoring Surveys – Household Questionnaires for each of the CPAs	-	CME
19	CREEC	Efficiency Tests Reports dated 07/11/2019 Efficiency Tests Reports dated 31/10/2019	-	CME
	University of Nairobi	Efficiency Tests Reports dated 28/10/2019		
20	Uganda National Bureau of Standards & DLA Scientific Ltd	Calibration Certificates for all the equipments used in determination of the efficiency of the ICS	Dated February 2019 Dated February 2019 Dated September 2019	CME
21	Enumerators	CVs of the Enumerators who carried out the monitoring survey	-	CME
22	Enumerators	Training sheets of the Enumerators who carried out the monitoring survey	-	CME
23	RDIS & JFK & Aid Africa	Organizational structure of the RDIS, JFK & Aid Africa	-	CME
24	UNFCCC	AMS-I.E. - Switch from non-renewable biomass for thermal applications by the User	Version 06	Publicly available
25	UNFCCC	AMS-II.G. - Energy efficiency measures in thermal applications of non-renewable biomass	Version 03	Publicly available
26	UNFCCC	Kyoto Protocol (1997)	Web link	Publicly available
27	UNFCCC	CDM validation and verification standard for programmes of activities	Version 02.0	Publicly available
28	UNFCCC	CDM project standard for programmes of activities	Version 02.0	Publicly available
29	UNFCCC	Glossary “CDM terms”	Version 10	Publicly available
30	UNFCCC	Guidelines for Application of materiality in verifications	version 2.0	Publicly available
31	UNFCCC	MR filling guideline “CDM-PoA-MR-FORM Monitoring report form for CDM programme of activities”	Version 03.0	Publicly available
32	UNFCCC	Standard “Sampling and surveys for CDM project activities and programme of activities”	Version 08.0	Publicly available
33	UNFCCC	Guidelines for sampling and surveys for CDM project activities and programme of activities	Version 04.0	Publicly available
34	IPCC	2006 IPCC Guidelines for National Greenhouse Gas Inventories, Volume 2 Energy, Chapter 1 Introduction, Table 1.1 & 1.2.	-	Publicly available

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

Table 1. CLs from this validation

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

Table 2. CARs from this validation

CAR ID	01	Section no.	-	Date: 05/03/2020
Description of CAR				
<p>The Efficiency tests were conducted in October 2019, while the distributions of the stoves were already started in June 2017 for the CPA (7014-P1-0007-CP1 RDIS). Similarly in case of the CPA: 7014-P1-0009-CP1 Aid Africa Uganda CPA 1 (AAUg01), the implementation date was 10/02/2017 and the surveys for the monitoring parameters were implemented in September 2019. The CME shall clarify as how the annual/biennial monitoring frequency has been followed for the Efficiency tests for the monitoring period. Clarify.</p>				
Project participant response				Date: 14/03/2020
<p>Since biennial frequency as per the registered CPA-DD was not followed, the CME will only count emission reductions for the period of 2 years prior to the survey date. The usage surveys were implemented on 09/09/2019, while the Efficiency tests were conducted on 28/10/2019, hence only two years (corresponding ICS-in-use days) prior to the efficiency test date (28/10/2019) has been considered for the emission reductions calculations. For 7014-P1-0007-CP1 RDIS Rwanda CPA 1 (RDISRw01) the CPA implementation date (first stove distributed) was 14/06/2017. The ICS days-in-use period from 14/06/2017 to 06/11/2017 have not been considered in the calculations. So effectively the ICS days-in-use have only been counted from 07/11/2017 onwards until the end of the monitoring period (16/08/2019) which is a 2-year period. Hence a conservative approach has been followed in the emission reduction calculations.</p> <p>As for 7014-P1-0009-CP1 Aid Africa Uganda CPA 1 (AAUg01) the implementation date was 10/02/2017 and its crediting period start date was 01/02/2018. So emission reductions have only been considered from the crediting start date onwards till the end of the monitoring period (16/08/2019), hence the emission reductions have been calculated on a conservative basis.</p>				
Documentation provided by project participant				
- RDIS ER Calculation				
DOE assessment				Date: 09/04/2020
<p>The surveys for the monitoring parameters (N_y, $t_{fraction,(i,j)}$, $t_{fraction,(i,j)}$, $AMS-I.E.$, $U_{(i,j)}$, $U_{(i,j)}$ $AMS-I.E.$, Adjustment factor for the continued use of traditional stoves, $Q_{Renewable Biomass,y}$) were implemented in September 2019 for the CPA (7014-P1-0007-CP1 RDIS). While the Efficiency tests corresponding to the parameter ($\eta_{new,(i,j)}$) for the CPA (7014-P1-0007-CP1 RDIS) was implemented on 28/10/2019. In the case of the CPA (7014-P1-0007-CP1 RDIS), the CPA implementation date (first stove distributed) was 14/06/2017 and Efficiency tests were implemented on 28/10/2019 and the monitoring frequency as per the registered CPA-DD is biennial; however the same has not been followed. As a conservative approach, CME has only counted the emission reductions for the period of 2 years prior to the date (28/10/2019). The ICS days-in-use period from 14/06/2017 to 06/11/2017 have not been considered in the calculations. So effectively the ICS days-in-use have only been counted from 07/11/2017 onwards until the end of the monitoring period (16/08/2019) which is within 2-year period of the survey/test implementation date. Hence a conservative approach has been followed in the emission reduction calculations.</p> <p>Further in case of the CPA: 7014-P1-0009-CP1 Aid Africa Uganda CPA 1 (AAUg01) the implementation date was 10/02/2017 and the surveys for the monitoring parameters (N_y, $\eta_{new,(i,j)}$, $t_{fraction,(i,j)}$, $t_{fraction,(i,j)}$, $AMS-I.E.$, $U_{(i,j)}$, $U_{(i,j)}$ $AMS-I.E.$, Adjustment factor for the continued use of traditional stoves, $Q_{Renewable Biomass,y}$) were implemented in September 2019. Since the crediting period start date of the CPA was 01/02/2018, hence the emission</p>				

reductions have only been claimed from the date of 01/02/2018. Since the date (01/02/2018) is within two years of the Survey implementation date (October 2019) and hence emission reductions have only been claimed for the period of less than 2 years from the survey date.

Hence the conservative approach has been followed in the calculation of emission reductions, when the biennial frequency has not been followed for the surveys conducted for the above two CPAs, which is found correct by the assessment team. In this regard, this PRC (temporary deviation request) report is being submitted along-with the verification report.

Table 3. FARs from this validation

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

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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.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, component project activity, validation report		