



**Verification and certification report form for  
CDM project activities  
(Version 03.0)**

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

**BASIC INFORMATION**

|                                                                                                                       |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Title and UNFCCC reference number of the project activity</b>                                                      | <b>Title:</b> Institutional Improved Cook Stoves for Schools and Institutions in Uganda<br><b>UNFCCC Ref. No.:</b> 10345                                                                                                                            |
| <b>Scale of the project activity</b>                                                                                  | <input type="checkbox"/> Large-scale<br><input checked="" type="checkbox"/> Small-scale                                                                                                                                                             |
| <b>Version number of the verification and certification report</b>                                                    | 02                                                                                                                                                                                                                                                  |
| <b>Completion date of the verification and certification report</b>                                                   | 09/12/2020                                                                                                                                                                                                                                          |
| <b>Monitoring period number and duration of this monitoring period</b>                                                | 02<br>Monitoring period: 01/06/2019 - 19/03/2020 (including both dates)                                                                                                                                                                             |
| <b>Version number of the monitoring report to which this report applies</b>                                           | 04                                                                                                                                                                                                                                                  |
| <b>Crediting period of the project activity corresponding to this monitoring period</b>                               | 01/03/2017 – 29/02/2024 (Renewable)                                                                                                                                                                                                                 |
| <b>Project participants</b>                                                                                           | Simoshi Limited                                                                                                                                                                                                                                     |
| <b>Host Party</b>                                                                                                     | Uganda                                                                                                                                                                                                                                              |
| <b>Applied methodologies and standardized baselines</b>                                                               | <b>Applied methodology:</b> AMS-II.G. (Energy efficiency measures in thermal applications of non-renewable biomass), Version 8.0<br><b>Standardized baseline:</b> ASB0016 Standardised baseline “Institutional Cook Stoves in Uganda”, version 01.0 |
| <b>Mandatory sectoral scopes</b>                                                                                      | 03- Energy Demand                                                                                                                                                                                                                                   |
| <b>Conditional sectoral scopes, if applicable</b>                                                                     | N/A                                                                                                                                                                                                                                                 |
| <b>Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD</b> | 29,262 tCO <sub>2</sub> e                                                                                                                                                                                                                           |
| <b>Certified amount of GHG emission reductions or GHG removals for this monitoring period</b>                         | 3,950 tCO <sub>2</sub> e                                                                                                                                                                                                                            |
| <b>Name and UNFCCC reference number of the DOE</b>                                                                    | 4K Earth Science Private. Limited<br>UNFCCC Ref No. CDM-E-0069                                                                                                                                                                                      |
| <b>Name, position and signature of the approver of the verification and certification report</b>                      | S. Jagajothi<br>Director                                                                                                                                                                                                                            |

**SECTION A. Executive summary**

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4K Earth Science Private Limited has been commissioned by “Simoshi Limited” to perform an independent periodic verification of its registered project “Institutional Improved Cook Stoves for Schools and Institutions in Uganda” (UNFCCC Ref. No. 10345) for the reported GHG emission reductions for the given 2<sup>nd</sup> monitoring period 01/06/2019 - 19/03/2020<sup>1</sup> (both dates included). The CDM projects must undergo independent third party verification and certification of emission reductions as the basis for issuance of Certified Emission Reductions (CERs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the registered PDD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The actual monitoring systems & procedures and monitoring report conforms with the requirements of the registered monitoring plan and the approved monitoring methodology;
- The data is recorded and stored as per the monitoring methodology and registered monitoring plan.

Scope:

The scope of the verification is the independent and objective review and ex post determination of the monitored reductions in GHG emission by the project activity. The verification is based on review of monitoring report, supporting information and

- a) The registered PDD, including the monitoring plan and the corresponding validation opinion(s);
- b) Previous verification reports, deviation requests, requests for revision of monitoring plan (if applicable);
- c) Monitoring report for the monitoring period under verification including CER calculations sheets and all supporting documents;
- d) The applied monitoring methodology;
- e) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- f) All information and references relevant to the project activity's resulting in emission reductions
- g) The project is assessed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures and related rules and guidance.

4K EARTH SCIENCE PRIVATE LIMITED has, based on the recommendations in the latest version of CDM Validation and Verification Standard for project activity, employed a rule-based approach in the verification, focusing on the identification of significant reporting risks and the reliability of project monitoring.

Description of project:

The purpose of this project activity is the dissemination of institutional improved cook stoves (IICS) in schools and institutions in Uganda. The IICS disseminated are manufactured by Uganda Stove Manufacturers Limited (Ugastove). The model is the portable rocket firewood IICS of different sizes that meet the minimum thermal efficiency requirement of 20%. The different IICS sizes are conditioned by the saucepan capacity and range from 30 litres and up to 450 litres.

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<sup>1</sup> The end date of the monitoring period has been changed from 31/03/2020 to 19/03/2020. Refer CAR-03 for more details.

These IICS are more efficient in transferring heat to the cooking pots, thus requiring 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 project activity reduces greenhouse gas emissions from the use of fuel. This reduction in fuel consumption is estimated and corresponding CO<sub>2</sub> emission reductions are calculated from these savings.

The project boundary of this project includes whole Republic of Uganda (Uganda) including its 111 districts and the city of Kampala.

#### Methodology

4K Earth Science Private Limited follows a rule based verification 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, the monitoring report of the project activity is made publicly available at UNFCCC website as per CDM procedures. A desk review of the project documentation is undertaken, which is followed by an on-site visit by the members of verification team in accordance with the latest version of CDM AS. The verification protocol is filled by the verification team that is based on standard auditing practices and version 02 of CDM VVS for project activity, to capture the assessment of applicable CDM requirements viz., version 02 of CDM Project Standard for project activity, registered PDD, applied methodology, applied standardized baseline and/or tools and recent decisions. The verification protocol provides transparent means to record the observations and compliances by the verification team members and the nonconformities, if any. The verification protocol is an internal document, and is available on request. Following are the major milestones for the verification under consideration.

|                           |                          |
|---------------------------|--------------------------|
| Verification contract     | 13/10/2020               |
| Publication of MR         | 20/10/2020               |
| Remote audit              | 19/11/2020 to 21/11/2020 |
| Draft Verification Report | 01/12/2020               |
| Final Verification Report | 09/12/2020               |

4K Earth Science Private Limited confirms that the monitoring system is in place and the emission reductions are calculated without material misstatements.

Based on the information seen and evaluated we confirm that the implementation of the project has resulted in 3,950 tCO<sub>2</sub>e (round down) emission reductions during period 01/06/2019 - 19/03/2020 (Including both the days).

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

| No. | Role                                   | Type of resource | Last name | First name     | Affiliation<br>(e.g. name of central or other office of DOE or outsourced entity) | Involvement in       |                    |            |                       |
|-----|----------------------------------------|------------------|-----------|----------------|-----------------------------------------------------------------------------------|----------------------|--------------------|------------|-----------------------|
|     |                                        |                  |           |                |                                                                                   | Desk/document review | On-site inspection | Interviews | Verification findings |
| 1.  | Team Leader, Technical Expert (TA 3.1) | IR               | Sharma    | Chetan Swaroop | Central Office                                                                    | ✓                    |                    | ✓          | ✓                     |
| 2.  | Local Expert                           | EI               | Veronica  | Namazzi Gloria | Central office                                                                    | ✓                    |                    | ✓          |                       |

**B.2. Technical reviewer and approver of the verification and certification report**

| No. | Role                        | Type of resource | Last name | First name | Affiliation<br>(e.g. name of central or other office of DOE or outsourced entity) |
|-----|-----------------------------|------------------|-----------|------------|-----------------------------------------------------------------------------------|
| 1.  | Technical reviewer (TA 3.1) | IR               | C         | Indumathi  | Central office                                                                    |
| 2.  | Approver                    | IR               | S         | Jagajothi  | Central office                                                                    |

**SECTION C. Application of materiality****C.1. Consideration of materiality in planning the verification**

| No. | Risk that could lead to material errors, omissions or misstatements                                                                                                            | Assessment of the risk |                                                                                                                                                                                             | Response to the risk in the verification plan and/or sampling plan                                                                                                                                                                                                                                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                                | Risk level             | Justification                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1.  | The IICS/Institutions registration is done through sales agreement. Error can be perceived during registration by PP and during transfer of data from paper to ER sheet by PP. | Medium                 | PP collects the IICS/Institutions registration data and transfer to ER sheet.<br>Error can be perceived during registration by PP and during transfer of data from paper to ER sheet by PP. | To mitigate the risk, Verification team has checked the IICS/institutions registration data in the ER sheet /04/ through the remote interview acceptance sampling of the IICS/institutions and from the registration records /10/. The registration data was found consistent.<br><br>Further verification team has also checked the ER calculation sheet /04/ thoroughly to mitigate the risk. |
| 2.  | Monitoring parameters are monitored by PP and errors can be perceived during the information transfer from monitoring forms to the emission reduction sheet.                   | High                   | There are multiple monitoring parameters (As per section B.7.1 of the registered PDD) which are directly used for the baseline emission calculation.                                        | 1. To mitigate the risk, DOE has checked the monitoring data for 5 applicable monitoring parameters (as given below) through acceptance sampling.<br><br>Monitoring parameters:                                                                                                                                                                                                                 |

|    |                                                                                                                                   |        |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|-----------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                   |        | <p>The data monitoring for these monitoring parameters is done by PP and errors can be perceived during the information transfer from monitoring forms to the emission reduction sheet.</p>                                                                       | <ol style="list-style-type: none"> <li>1. <math>t_{fraction\ i}</math></li> <li>2. Date of commissioning of project device i</li> <li>3. <math>N_{y,inst}</math></li> <li>4. <math>\mu_y</math></li> <li>5. <math>U_{y,inst}</math></li> </ol> <p>For all the selected samples, the monitoring data (for the 5 monitoring parameters) has been checked by DOE from the remote audit interview. Also all the monitoring forms /10/, /11/, /12/ were also checked along with ER sheet /04/. The data was found consistent.</p> <p>Further verification team has also checked the ER calculation sheet /04/ thoroughly to mitigate the risk.</p> <p>2. To mitigate the risk, DOE has checked the monitoring data for 1 applicable monitoring parameter (as given below) through checking qualifications/capability of tester /39/ and /40/, test method /22/, all the WBT monitoring data for 12 IICS /09/ and the ER sheet /04/.</p> <p>The data was found consistent.</p> <p>Monitoring parameters:</p> <ol style="list-style-type: none"> <li>1. <math>\eta_{new,i,j}</math></li> </ol> <p>Further verification team has also checked the ER calculation sheet /04/ thoroughly to mitigate the risk.</p> |
| 3. | Errors can be perceived during the information transfer (Ex-ante parameters) from registered PDD to the emission reduction sheet. | Medium | <p>There are multiple ex-ante parameters in the Monitoring report which are used for the Baseline GHG emission calculation. Errors can be perceived during the information transfer (Ex-ante parameters) from registered PDD to the emission reduction sheet.</p> | <p>To mitigate the risk, verification team has checked all the Ex-ante parameters under the ER sheet /04/ with the monitoring report /02/ and PDD /25/ and found consistent.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### C.2. Consideration of materiality in conducting the verification

>> The prescribed thresholds for materiality, as per §330 of “CDM validation and verification standard for project activities” Version 02.0/27/.

|                               |          |                     |         |         |         |
|-------------------------------|----------|---------------------|---------|---------|---------|
| Prescribed range of ERs/annum | 500,000+ | 300,000+ to 500,000 | 300,000 | SSC Pas | MSC PAs |
| Prescribed Threshold          | 0.5%     | 1.0%                | 2.0%    | 5.0%    | 10.0%   |

The identified/selected materiality threshold for the project activity under current monitoring period is 5.0% as the project activity is a small-scale project activity.

|                      | MR Version (Draft) /01/  | MR Version (Final) /02/  |
|----------------------|--------------------------|--------------------------|
| Emission reductions  | 4,157 tCO <sub>2</sub> e | 3,950 tCO <sub>2</sub> e |
| Identified Threshold | 5.0%                     | 5.0%                     |

During the verification, the emission reduction has been decreased because of the raised CAR-02 and CAR-03. Refer Appendix 4 of this report for more details.

## SECTION D. Means of verification

### D.1. Desk/document review

>>

A desk review is undertaken, involving but not limited to,

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

The list of documents reviewed is included in the section 'Appendix 3' of this report.

## D.2. On-site inspection

As a result of the COVID-19 pandemic, taking into account the rules of relevant national and local authorities (local to the DOE offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the DOE and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return from specific countries), A DOE may postpone site visits for onsite inspections required by the “CDM validation and verification standard for project activities (version 02.0) (VVS-PA)”.

If the site visits cannot be postponed, a proper justification should be provided by the DOE why the site visits cannot be postponed, including the demonstration of a significant impact of delaying the site visits on the DOE, or project participants or coordinating/ managing entity (e.g. commitment/ timeline as per the validation or verification contract, CER delivery commitment by project participants) reliance on applicable force majeure provisions in the validation or verification contracts, if needed.

The Ministry of Education and Sports, Kampala /41/ ordered to close all schools from 20/03/2020. As confirmed by PP, Schools opened in October 2020 with the limitations and Classes for candidates will run until 18/12/2020 (Christmas Holiday). No new date has yet been provided as to when all children will be allowed back in school in 2021. Most important, Visitors and parents are not allowed inside schools. Since Carbon credit is the only income for project activity, PP want to issue the CERs as soon as possible.

Considering the current COVID-19 world situation, Site visit is not expected to happen in near future. Hence the site visit could not be postponed for this project activity and DOE has skipped the on-site visit. However as per the CDM EB, the DOE may use other standard auditing techniques for validation or verification as referred to in sections 9.1.3 of the VVS for PA /27/.

Verification team has used the following alternative means for its assessment and to justify that they are sufficient for the purpose of verification. Along with desk review, audit team has conducted remote audit interview (Skype interview/phone calls/Whatsapp calls) as follows:

- A complete desk review of the MR, as well as all applicable country legal requirement and supportive evidences have been checked by the verification team.
- Verification team has performed Skype interview/phone calls/Whatsapp calls in order to check implementation, project boundary, current situation, evaluation of data management, QA/QC system, monitoring equipment, monitoring procedures, calibration etc.
- Cross checks between information provided by interviewed personnel (i.e. by checking sources) to ensure that no relevant information has been omitted.
- Cross-check evaluation, for information received from interviews, under the scope of all information and references provided in MR and supporting documents.

Details of interviewees, topics covered and additional information presented in the below section “D.3 Interviews”

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

**D.3. Interviews**

| No. | Interviewee |            |                                                   | Date                                 | Subject                                                                                                                                                                                                                                                                                   | Team member                                                                                                          |
|-----|-------------|------------|---------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|     | Last name   | First name | Affiliation                                       |                                      |                                                                                                                                                                                                                                                                                           |                                                                                                                      |
| 1.  | Echavarria  | Virginia   | Managing Director, Simoshi Limited                | 19/11/2020 & 21/11/2020 (Skype Call) | General aspects of the project, Changes since validation/1 <sup>st</sup> verification,                                                                                                                                                                                                    | Mr. Chetan Swaroop Sharma (Team Leader, Technical Expert (TA 3.1))<br><br>Ms. Namazzi Gloria Veronica (Local Expert) |
| 2.  | Bwire       | Henry      | Maintenance and Training Officer, Simoshi Limited | 21/11/2020 (Skype Call)              | Quality management system, Monitoring data management,                                                                                                                                                                                                                                    |                                                                                                                      |
| 3.  | Nakyazze    | Rehema     | CEO, Ugastove                                     | 21/11/2020 (Whatsapp Call)           | Data analysis, Implementation of the monitoring plan, GHG emission reduction calculation, Involved personnel and responsibilities, Training and practice of the operational personnel, Monitoring data management, Maintenance, Sales/Distribution records, Survey records, Qualification |                                                                                                                      |

**Institutions sampled during remote audit by DOE for the monitoring parameters ( $t_{fraction i}$ ,  $N_{y,inst}$ ,  $\mu_y$ ,  $U_{y,inst}$ ):**

| S. No. | SCHOOL NAME                                |
|--------|--------------------------------------------|
| 1      | Bright Angel Junior School                 |
| 2      | Gangu Muslim                               |
| 3      | Kids Gear Primary School                   |
| 4      | Kiswa Primary School                       |
| 5      | Military Police Primary School             |
| 6      | Royal Primary School Mityana               |
| 7      | St. Charles Lwanga Secondary School Kibiri |
| 8      | St. Pius Masajja Primary School            |
| 9      | Standard High School Zana                  |

**D.4. Sampling approach**

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There are total 5 monitoring parameters (as given below) for which sampling has been done by the DOE.

1.  $t_{fraction\ i}$
2. Date of commissioning of project device  $i$
3.  $N_{y,inst}$
4.  $\mu_y$
5.  $U_{y,inst}$

DOE had planned to apply the acceptance sampling in accordance with the paragraph 54 of the "Guideline: Sampling and surveys for CDM project activities and programmes of activities, version 04.0"/31/. 4KES verification team carried out the random sampling from the PP's records and check (using its professional judgment) the acceptability of the data for each record in the PP's sample records against DOE records i.e. Data collected by the DOE. The DOE has determined acceptance sample size based on the "Table. Sample size and acceptance number based on AQL, UQL, and producer and consumer risks" of standard "Sampling and surveys for CDM project activities and programmes of activities" version 08.0/30/.

During the remote verification a sampling approach has been used by the verification team to verify the reported values for the monitored parameters (5 monitoring parameters as given above) as listed in section D.2 of the MR.

For the determination of DOE's acceptance sample size, verification team has selected the following using its professional judgment:

1. Acceptable quality level (AQL) - 1%
2. Unacceptable Quality Level (UQL) – 20%
3. Producer risk -10%
4. Consumer risk -15%

Verification team has determined acceptance sample size for all the monitoring parameters based on the "Table. Sample size and acceptance number based on AQL, UQL, and producer and consumer risks" of standard "Sampling and surveys for CDM project activities and programmes of activities" version 08.0. From the above factors, the verification team determined the minimum sample size (n) as 9 and acceptance number (c) as 0. The sample size used to verify the reported values for the monitored parameters which are determined through monitoring by PP. The DOE interviewed the schools representative through phone calls and filled the DOE survey form to check the acceptability of the data for each PP's records.

The actual number of sample size where the acceptance survey was done is given below:

| Parameters                                                                                                                                                                             | Total Population       | Acceptance sample size | Acceptance Number | Sampling method used                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-------------------|-----------------------------------------------------------|
| 5 Monitoring parameters as per section D.2 of the MR<br><br>1. $t_{fraction\ i}$<br>2. Date of commissioning of project device $i$<br>3. $N_{y,inst}$<br>4. $\mu_y$<br>5. $U_{y,inst}$ | Total Institutions: 62 | 9                      | 0                 | Acceptance Sampling based on random selection of schools. |

Using acceptance sampling approach, verification team checked the PP's Institution/IICS results (reported in the Monitoring forms) with the DOE remote audit interview records.

The result of the survey is given below:

| Parameters | DOE Sample size | No of PP's record beyond unacceptable level | Accepted |
|------------|-----------------|---------------------------------------------|----------|
|            |                 |                                             |          |

|                                            |   |   |   |
|--------------------------------------------|---|---|---|
| Monitoring parameters as per E.2 of the MR | 9 | 0 | 9 |
|--------------------------------------------|---|---|---|

#### D.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

| Areas of verification findings                                                                                            | No. of CL | No. of CAR | No. of FAR |
|---------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------|
| Compliance of the monitoring report with the monitoring report form                                                       | 00        | 00         | 00         |
| Compliance of the project implementation and operation with the registered PDD                                            | 00        | 00         | 00         |
| Post-registration changes                                                                                                 | 00        | 00         | 00         |
| Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines | 00        | 00         | 00         |
| Compliance of monitoring activities with the registered monitoring plan                                                   | 03        | 01         | 00         |
| Compliance with the calibration frequency requirements for measuring instruments                                          | 00        | 00         | 00         |
| Assessment of data and calculation of emission reductions or net removals                                                 | 00        | 02         | 00         |
| Assessment of reported sustainable development co-benefits                                                                | 00        | 00         | 00         |
| Global stakeholder consultation                                                                                           | 00        | 00         | 00         |
| Others (please specify)                                                                                                   | 00        | 00         | 00         |
| <b>Total</b>                                                                                                              | <b>03</b> | <b>03</b>  | <b>00</b>  |

### SECTION E. Verification findings

#### E.1. Compliance of the monitoring report with the monitoring report form

|                              |                                                                                                                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | Verification team checked the monitoring report /02/ with “Instructions for filling out the monitoring report form” mentioned as attachment to Monitoring report form (version 07).                                                                                    |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                                                                                                                                                                      |
| <b>Conclusion</b>            | In accordance with §352 of CDM validation and verification standard for project activities, Version 02.0 /27/, verification team confirms that final monitoring report /02/ is completed using the latest valid version of the applicable monitoring report form /32/. |

#### E.2. Remaining forward action requests from validation and/or previous verifications

>> The current verification is for the 2<sup>nd</sup> monitoring period of the project activity. All raised CARs and CLs were successfully closed during validation and 1<sup>st</sup> Verification. There is no pending FAR from validation or 1<sup>st</sup> verification to be addressed during the 2<sup>nd</sup> verification.

#### E.3. Compliance of the project implementation and operation with the registered project design document

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The purpose of this project activity is the dissemination of institutional improved cook stoves (IICS) in schools and institutions in Uganda. All the IICS disseminated under the project activity are manufactured by Uganda Stove Manufacturers Limited (Ugastove). The model is the portable rocket firewood IICS of different sizes that meet the minimum thermal efficiency requirement of 20%. The Ugastove rocket-stove design is portable IICS, it includes a chimney provision, and has a single saucepan provision with capacities that range from 30 litres up to 450 litres capacity. All the IICS have a unique number. The same is verified during the remote audit, technical specification of the distributed IICS /07/, provided efficiency test reports of project IICS /09/ and ER sheet /04/. Verification team confirms that the IICS distributed to schools under the project activity (till the end of this monitoring period) are in compliance with the PDD /25/. |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Verification team has also interviewed representative of UGASTOVE to understand the IICS manufacturing process, QMS of UGASTOVE, Stove design and similarity between different size of Saucepans (starting from 30 L to 450 L), Health & Safety aspects taken during the IICS manufacturing.

PP has opted to carry out WBTs on 30 litres IICS capacity (3 test for each IICS and considered lowest) and apply conservatively the resulted thermal efficiency across all IICS sizes.<sup>2</sup> The SSC WG considered that applying the lowest efficiency found in IICS with saucepan capacities of 30 litres for IICS with saucepan capacities larger than 30 litres would be a conservative approach when the IICS designs and maintenance practices are comparable.

All the stoves distributed under the project activity are from the same manufacturer i.e. Ugastove. Verification team based on review of IICS Quality Assurance Control Manual /16/ and interview with Ugastove representative confirms that the design (e.g. with respect to insulation, placement of grate, cooking vessel and if applicable chimney) of all Ugastove IICS remain the same irrespective of the size and thus using the value of efficiency test of 30 L saucepan to higher size is justified inline with the requirements of SSWG 725.

Based on the remote interview, IICS Maintenance Manual /20/ and maintenance sheet /18/, verification team confirms that all Ugastove IICS have comparable repair and maintenance practices on all project stoves, irrespective of the size.

PP has taken the census approach and all 12 disseminated IICS of 30 litres capacity from the first batch were tested (by PP) following the WBT version 4.2.3 /22/, with three tests conducted on every IICS which is in compliance with the SSC\_725 clarification /34/ and sentence *"PP will carry out WBTs on 30 litres IICS capacity and apply conservatively the resulted thermal efficiency across all IICS sizes. The SSC WG considered that applying the lowest efficiency found in IICS with saucepan capacities of 30 litres for IICS with saucepan capacities larger than 30 litres would be a conservative approach when the IICS designs and maintenance practices are comparable. The thermal efficiency of IICS with 30 litres saucepan capacity in the first batch would be used for annual efficiency monitoring as specified in option (c) of paragraph 25 and the result would be applied across all IICS sizes."* under section B.7 of the registered PDD /25/. PP has taken all 12 disseminated IICS of 30 litres capacity from the first batch and conducted three WBT tests on every IICS. The most conservative value among the results of efficiency tests conducted (i.e. the least efficiency determined) were applied conservatively to all the stoves which is accepted to the verification team.

All the 12 WBT tests<sup>3</sup> have been done by Ms. Virginia Echavarria (Managing Director, Simoshi Limited). Verification team based on review of IICS Quality Assurance\_Control Manual /16/, IICS material testing results /19/ and interview with representative of Ugastove confirms that the stove manufacturer i.e. Ugastove has a quality management system in place (e.g. proven stove design is employed and materials of high quality and consistency are used for the production of stoves and quality of the input material and critical dimensions of the produced stoves are tested). This is inline with the requirements of SSWG CL 726 and thus WBT carried out by PP is acceptable to the verification team.

As per para 37 of the standard "Sampling and surveys for CDM project activities and programmes of activities" Version 08.0 /30/, DOE has checked:

1. Whether the WBT tests were conducted by qualified institutions/testers.
2. Whether the WBT tests were conducted in accordance with approved established international/national standards, procedures.

From the WBT test data /09/ and the remote interview with Ms. Virginia Echavarria,

<sup>2</sup> This is in line with the response given from the SSG WG to Request for Clarification SSC\_725.

<sup>3</sup> 3 test for each IICS and considered lowest.

Verification team has found that WBT test were conducted in accordance with "The Water Boiling Test" version 4.2.3 /22/ which is accepted to the verification team. Also from the review of Ms. Virginia Echavarria's CV /39/ and other supportive document /40/, Verification team has found that she is having multiple years of WBT testing experience in past employer organization (Uganda Carbon Bureau) and also contributed in international workshops /40/. Hence she is found to be capable for WBT testing. DOE has also checked all the WBT monitoring data for 12 IICS /09/ and the ER sheet /04/ and found correct.

Average efficiency of the 12 IICS (25.61%) has been considered for the ER calculation /04/ which is accepted to the verification team. Verification team also confirm that WBT test /09/ was done after the end of the monitoring period (01/06/2019 - 19/03/2020) i.e. in September 2020 hence no impact on the emission reduction.

Verification team has also checked the calibration records /06/ for all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) used during the WBT. Verification team has checked the monitoring equipments from the Photos /14/. WBT test for IICS efficiency was done from 21/09/2020 to 02/10/2020 as checked from the WBT test records /09/. As verified from the calibration records /06/, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test which is accepted to the verification team. As verified from calibration reports /06/, The Calibration of all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) was done by Uganda National Bureau of Standards which is a government agency and hence accepted to the verification team.

As verified by the verification team during the Remote audit sampling, Sales agreement /10/ and from the ER sheet /04/, all the IICS have been distributed only in schools (till the end date of this monitoring period).

Till the end of this monitoring period, total 62 schools were enrolled in the project and the calculation of the actual number of pupils enrolled and staff (teachers and non-teachers) in the school is based on the actual data of these 62 Schools as recorded in the document Term Information Update /11/.

Simoshi Limited (Simoshi) is the project participant of this project activity. The ongoing support Simoshi provides to all schools includes continuous monitoring and training of kitchen staff, annual free maintenance for all IICS. Verification team has verified the same from the review of various documents /13/, /15/, /18/. The monitoring staff of the Simoshi is competent as verified during remote interview and also from the training documents /13/.

When purchasing the IICS, the school/institution filled a sales agreement with Simoshi that contains, among others, information about the IICS model, price and payment, the name, location/address and phone number of the school/institution. This information allows the identification and the monitoring of the IICS and its usage. By filling the sales agreement, the school/institution has agreed to discontinue the use of the traditional stove, and to use the IICS instead. By signing the sales agreement, the school/institution was aware of and willing to give up its rights on emission reductions and transfer all carbon rights to Simoshi. Verification team has verified the same during the remote audit sampling, Sales agreements /10/.

The size of each IICS distributed under the project till the end of this monitoring period was checked and found within 5% of the small-scale threshold 180 GWh<sub>th</sub>/year. As per the calculation provided under the tab "Debundling and Additionality" of ER sheet /04/, verification team confirms that size of each unit (IICS) is within 5% of the small-scale threshold 180 GWh<sub>th</sub>/year which is in compliance of the registered PDD /25/ and the additionality of the project activity is secured.

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <p>According to the tab "SSC threshold" of the ER sheet /04/, the actual number of school added under the project activity are lower than the allowed maximum no of schools (Calculated as per small-scale threshold 180 GWh<sub>th</sub>/year). Hence the project activity is within the small-scale threshold i.e. aggregated thermal energy savings has not exceeded 180 GWh<sub>th</sub>/year during this monitoring period.</p> <p>Verification team has checked the life time of the project IICS from the technical document from the manufacturer /08/ which is 10 years. Project IICS are operating well as verified during the sample remote audit and also from the document /18/.</p> <p>The verification team determined the conformity of the actual project activity and its operation with the registered project design document /25/. Verification team has, by means of a desk review and an remote audit, assessed that all physical features of the CDM project activity proposed in the registered PDD /25/ are in place, and that the project participants have operated the CDM project activity as per the registered PDD /25/.</p> <p>The verification team has checked the information in the monitoring report /02/ and compared against the registered PDD /25/ and found consistent.</p> |
| <b>Findings</b>   | No CAR/CL raised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conclusion</b> | <p>The verification team, based on the remote audit and document review, was able to conclude that the project activity has been commissioned and implemented as per the registered PDD /25/ and that all physical features of the project are in place.</p> <p>As per para 354 and 355 of CDM VVS for project activity version 02.0 /27/, the verification team confirms that:</p> <ul style="list-style-type: none"> <li>a) The project activity is implemented as per the registered PDD /25/.</li> <li>b) The actual operation of the proposed CDM project activity is in line to the registered PDD /25/.</li> <li>c) It has reviewed the registered PDD /25/ including the monitoring plan, the applied monitoring methodology, relevant decisions from the CMP and the CDM EB and found that the Final MR /02/ for this monitoring period is in line with all the above mentioned documents.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         |

#### E.4. Post-registration changes

##### E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents<sup>4</sup>

>>

There is no temporary deviation to be submitted with this request for issuance. Therefore, this section is not applicable.

##### E.4.2. Corrections

>>

There is no correction to be submitted with this request for issuance. Therefore, this section is not applicable.

##### E.4.3. Changes to the start date of the crediting period

>>

There is no change to the start date of the crediting period in this monitoring period.

##### E.4.4. Inclusion of a monitoring plan

>>

There is no inclusion of a monitoring plan to the registered project activity that was not included at registration. Hence, this section is not applicable.

<sup>4</sup> Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied (selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

#### E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

&gt;&gt;

There is no permanent change to be submitted with this request for issuance. Therefore, this section is not applicable.

#### E.4.6. Changes to the project design

&gt;&gt;

There is no change to the project design to be submitted with this request for issuance. Therefore, this section is not applicable.

#### E.4.7. Changes specific to afforestation and reforestation project activities

>>This section is not applicable.

#### E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The verification team checked compliance of project monitoring plan /25/ with the applied methodology (AMS-II.G., version 08) /23/, Standardized Baseline: ASB0016 'Institutional Cook Stoves in Uganda', Version 01.0 /37/ and including applicable tools.                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                         |
|                              | The actual procedures followed for monitoring of parameters are checked against the parameters and procedures provided in the applied methodology /23/.                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                         |
|                              | All parameters used for emission reductions calculation have been verified. The discussion regarding each parameter has been elaborated in the further sections of this report.                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                         |
|                              | <b>Applicability criteria as per applied methodology i.e. AMS-II.G., version 08</b>                                                                                                                                                                                                                                                                                                                                                                                  | <b>Means of Verification</b>                                                                                                                                                                                                                                                                                                                                            |
|                              | <b>Requirement as per para 2 of the applied methodology:</b><br><br>This methodology comprises efficiency improvements in thermal applications of non-renewable biomass. Examples of applicable technologies and measures include the introduction of high efficiency biomass fired project devices (cook stoves or ovens or dryers) to replace the existing devices and/or energy efficiency improvements in existing biomass fired cook stoves or ovens or dryers. | Verification team confirms that project activity has disseminated high efficiency firewood institutional improved cook stoves (IICS) in schools in Uganda, hence this applicability criterion is met.<br><br>The same is verified during the remote audit, technical specification of the distributed IICS /07/, provided efficiency test reports of project IICS /09/. |
|                              | <b>Requirement as per para 3 of the applied methodology:</b><br>In the case of cook stoves, the methodology is applicable to introduction of single pot or multi pot portable or in-situ cook stoves with rated efficiency of at least 20 per cent.                                                                                                                                                                                                                  | The IICS distributed under the project activity are single pot and portable as verified during the remote audit, technical specification of the distributed IICS /07/. The average efficiency of project IICS as per the provided efficiency test reports /09/ is 25.61%, thus complies with the requirement of the applied methodology.                                |
|                              | <b>Requirement as per para 4 of the applied methodology:</b><br>The aggregate energy savings of a                                                                                                                                                                                                                                                                                                                                                                    | According to the tab "SSC threshold" of the ER sheet /04/, the actual number of school added under the                                                                                                                                                                                                                                                                  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | single project activity shall not exceed the equivalent of 60 GWh per year or 180 GWh thermal per year in fuel input.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | project activity are lower than the allowed maximum no of schools (Calculated as per small-scale threshold 180 GWh <sub>th</sub> /year). Hence the project activity is within the small-scale threshold i.e. aggregated thermal energy savings has not exceeded 180 GWh <sub>th</sub> /year during this monitoring period. |
| <b>Findings</b>   | No CAR/CL is raised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                            |
| <b>Conclusion</b> | <p>The verification team was able to confirm that the monitoring plan contained in registered PDD /25/ and MR /02/ is in accordance with the approved small scale methodology applied for the project activity i.e. "AMS-II.G. ver. 8 - Energy efficiency measures in thermal applications of non-renewable biomass" /23/ and Standardized Baseline: ASB0016 'Institutional Cook Stoves in Uganda', Version 01.0 /37/.</p> <p>As per para 357 and 358 of CDM VVS for project activity version 02.0 /27/, In the opinion of the verification team the monitoring plan of the registered PDD /25/ complies with the monitoring requirement of the applied approved small scale methodology "AMS-II.G. ver. 8 - Energy efficiency measures in thermal applications of non-renewable biomass" /23/ and Standardized Baseline: ASB0016 'Institutional Cook Stoves in Uganda', Version 01.0 /37/ in the context of the project activity.</p> |                                                                                                                                                                                                                                                                                                                            |

## E.6. Compliance of monitoring activities with the registered monitoring plan

### E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

|                              |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                               |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The verification team has checked the ex-ante parameters and data stated in Section D.1 of MR /02/ and compared with section B.6.2 of the registered PDD /25/ whether all parameters fixed ex-ante for the crediting period have been applied correctly.                                                          |                                                                                                                                                                                                     |                                                                                                                                                                                                                               |
|                              | <b>Ex-ante Parameter, Unit, Description</b>                                                                                                                                                                                                                                                                       | <b>Value applied and source</b>                                                                                                                                                                     | <b>Verification of the source:</b>                                                                                                                                                                                            |
|                              | <b>B<sub>old,p</sub></b><br><b>Unit:</b> Tonnes /person /year<br><b>Description:</b> Annual quantity of woody biomass that would have been used per person in the school /institution in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices | Boarding school- 0.38<br>Day school- 0.19<br>Prison, plantation estates and hospitals- 0.59<br><br><b>Source:</b> Standardized baseline ASB0016 'Institutional cook stoves in Uganda', version 01.0 | The values were fixed at the time of validation of PDD /25/. The values have been correctly taken as per the registered PDD /25/ and Hence accepted by the verification team. This is used for Baseline emission calculation. |
|                              | <b>f<sub>NRB,y</sub></b><br><b>Unit:</b> Fraction<br><b>Description:</b> Fraction of woody biomass saved by the project activity in the year y that can be established as non-renewable biomass                                                                                                                   | 0.82 Fraction<br><br><b>Source:</b> Default values as per <a href="https://cdm.unfccc.int/DNA/fNRB/index.html">https://cdm.unfccc.int/DNA/fNRB/index.html</a>                                       |                                                                                                                                                                                                                               |

|  |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                             |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>NCV biomass</b><br><br><b>Unit:</b> TJ/tonne<br><br><b>Description:</b> Net calorific value of the non-renewable woody biomass that is substituted                                                  | 0.0156 TJ/tonne<br><br><b>Source:</b> IPCC default 2006 (volume 2, chapter 1, Table 1.2)                                                                                                                                                                                                                                                                                              | The value was fixed at the time of validation of PDD /25/. The values have been correctly taken as per the registered PDD /25/ and Hence accepted by the verification team. This is used for Baseline emission calculation. |
|  | <b>EF<sub>projected fossil-fuel</sub></b><br><br><b>Unit:</b> tCO <sub>2</sub> /TJ<br><br><b>Description:</b> Emission factor for the substitution of non-renewable woody biomass by similar consumers | 81.6 tCO <sub>2</sub> /TJ<br><br><b>Source:</b> Default value in accordance with paragraph 15 of AMS-II.G (version 08)                                                                                                                                                                                                                                                                | The value was fixed at the time of validation of PDD /25/. The values have been correctly taken as per the registered PDD /25/ and Hence accepted by the verification team. This is used for Baseline emission calculation. |
|  | <b>LE<sub>y</sub></b><br><br><b>Unit:</b> Factor<br><br><b>Description:</b> Net to gross adjustment factor to account for leakage                                                                      | 0.95<br><br><b>Source:</b> AMS-II.G (version 08), paragraph 32                                                                                                                                                                                                                                                                                                                        | The value was fixed at the time of validation of PDD /25/. The values have been correctly taken as per the registered PDD /25/ and Hence accepted by the verification team. This is used for Baseline emission calculation. |
|  | <b><math>\eta_{old}</math></b><br><br><b>Unit:</b> Fraction<br><br><b>Description:</b> Efficiency of the baseline appliance being replaced                                                             | 0.12<br><br><b>Source:</b> Default value according to the Standardised Baseline, ASB0016: Institutional Cook Stoves in Uganda (version 01.0)                                                                                                                                                                                                                                          | The value was fixed at the time of validation of PDD /25/. The values have been correctly taken as per the registered PDD /25/ and Hence accepted by the verification team. This is used for Baseline emission calculation. |
|  | <b>Findings</b>                                                                                                                                                                                        | No CARs/CL raised.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                             |
|  | <b>Conclusion</b>                                                                                                                                                                                      | As per para 360 to 361 of CDM VVS for project activity version 02.0 /27/, the verification team confirm that the value of the Ex-ante parameters (Fixed ex-ante for the 1 <sup>st</sup> crediting period) used for calculation of emission reduction are consistent with registered PDD /25/ and correctly applied in MR /02/ and emission reduction spread sheet /04/ and justified. |                                                                                                                                                                                                                             |

### E.6.2. Data and parameters monitored

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                          |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Means of verification</b> | Verification team confirms through remote audit and from the document review, the actual monitoring system complies with the monitoring plan mentioned in the registered PDD /25/.                                                                                                                                                                                                                                                              |                                                                          |
|                              | During the verification, the monitoring parameters of the registered monitoring plan /25/ have been verified with regard to the appropriateness of the verification method; the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. The monitoring parameters have been measured / determined without material misstatements and is in line with all applicable standards and relevant requirements. |                                                                          |
|                              | The assessment for the monitoring parameters is given below:                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |
|                              | <b>S. No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Ex-post parameters, Verification opinion of the verification team</b> |
|                              | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Data/Parameter:</b> $\eta_{new,i,j}$<br><br><b>Unit:</b> Fraction     |

**Description:** Efficiency of the IICS of each type i and batch j being deployed as part of the project activity

**Value(s) of monitored parameter:** PP has opted to carry out WBTs on 30 litres IICS capacity and apply conservatively the resulted thermal efficiency across all IICS sizes.<sup>5</sup> The SSC WG considered that applying the lowest efficiency found in IICS with saucepan capacities of 30 litres for IICS with saucepan capacities larger than 30 litres would be a conservative approach when the IICS designs and maintenance practices are comparable.

All the stoves distributed under the project activity are from the same manufacturer i.e. Ugastove. Verification team based on review of IICS Quality Assurance Control Manual /16/ and remote interview with Ugastove confirms that the design (e.g. with respect to insulation, placement of grate, cooking vessel and if applicable chimney) of all Ugastove IICS remain the same irrespective of the size and thus using the value of efficiency test of 30 L saucepan to higher size is justified inline with the requirements of SSWG 725.

Based on the remote interview, IICS Maintenance Manual /20/ and maintenance sheet /18/, verification team confirms that all Ugastove IICS have comparable repair and maintenance practices on all project stoves, irrespective of the size.

PP has taken the census approach and all 12 disseminated IICS of 30 litres capacity from the first batch were tested (by PP) following the WBT version 4.2.3 /22/, with three tests conducted on every IICS which is in compliance with the SSC\_725 clarification /34/ and sentence *"PP will carry out WBTs on 30 litres IICS capacity and apply conservatively the resulted thermal efficiency across all IICS sizes. The SSC WG considered that applying the lowest efficiency found in IICS with saucepan capacities of 30 litres for IICS with saucepan capacities larger than 30 litres would be a conservative approach when the IICS designs and maintenance practices are comparable. The thermal efficiency of IICS with 30 litres saucepan capacity in the first batch would be used for annual efficiency monitoring as specified in option (c) of paragraph 25 and the result would be applied across all IICS sizes."* under section B.7 of the registered PDD /25/. PP has taken all 12 disseminated IICS of 30 litres capacity from the first batch and conducted three WBT tests on every IICS. The most conservative value among the results of efficiency tests conducted (i.e. the least efficiency determined) were applied conservatively to all the stoves which is accepted to the verification team.

Verification team has also checked the WBT monitoring data for 12 IICS /09/ with respect to achieved precision. This is a mean value parameter. From the Sample size calculator /38/, verification team has found that 90/10 has been met which is in compliance with the monitoring plan /25/.

All the 12 WBT tests have been done by Ms. Virginia Echavarria (Managing Director, Simoshi Limited). Verification team based on review of IICS Quality Assurance Control Manual /16/, IICS material testing results /19/ and interview with representative of Ugastove confirms that the stove manufacturer i.e. Ugastove has a quality management system in place (e.g. proven stove design is employed and materials of high quality and consistency are used for the production of stoves and quality of the input material and critical dimensions of the produced stoves are tested). This is inline with the requirements of SSWG CL 726 and thus WBT carried out by PP is acceptable to the verification team.

As per para 37 of the standard "Sampling and surveys for CDM project activities and programmes of activities" Version 08.0 /30/, DOE has checked:

1. Whether the WBT tests were conducted by qualified institutions/testers.
2. Whether the WBT tests were conducted in accordance with approved established international/national standards, procedures.

<sup>5</sup> This is in line with the response given from the SSG WG to Request for Clarification SSC\_725.

From the WBT test data /09/ and the remote interview with Ms. Virginia Echavarria, Verification team has found that WBT test were conducted in accordance with "The Water Boiling Test" version 4.2.3 /22/ which is accepted to the verification team. Also from the review of Ms. Virginia Echavarria's CV /39/ and other supportive document /40/, Verification team has found that she is having multiple years of WBT testing experience in past employer organization (Uganda Carbon Bureau) and also contributed in international workshops /40/. Hence she is found to be capable for WBT testing. DOE has also checked all the WBT monitoring data for 12 IICS /09/ and the ER sheet /04/ and found correct.

Average efficiency of the 12 IICS (25.61%) has been considered for the ER calculation /04/ which is accepted to the verification team. Verification team also confirm that WBT test /09/ was done after the end of the monitoring period (01/06/2019 - 19/03/2020) i.e. in September 2020 hence no impact on the emission reduction.

| Test              | Result |
|-------------------|--------|
| Test 1 SL0000036  | 22.67  |
| Test 2 SL0000044  | 27.33  |
| Test 3 SL0000054  | 25.00  |
| Test 4 SL0000060  | 26.33  |
| Test 5 SL0000066  | 24.67  |
| Test 6 SL0000104  | 25.00  |
| Test 7 SL0000088  | 27.00  |
| Test 8 SL0000102  | 28.67  |
| Test 9 SL0000103  | 30.00  |
| Test 10 SL0000120 | 27.00  |
| Test 11 SL0000089 | 22.00  |
| Test 12 SL0000069 | 21.67  |
| Average           | 25.61% |

**Measuring/reporting frequency:** Annually as per registered monitoring plan /25/. CL-01 (3) has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.

Last WBT was done in May 2019 and latest WBT was done in September 2020, hence there is delay by few months. Since the efficiency decrease over time, hence delaying the efficiency test will give less efficiency which is conservative for the emission reduction calculation as the latest efficiency test result (September 2020) has been applied across all the IICS population.

**Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):** No, Last WBT was done in May 2019 and latest WBT was done in September 2020, hence there is delay by few months. Since the efficiency decrease over time, hence delaying the efficiency test will give less efficiency which is conservative for the emission reduction calculation as the latest efficiency test result (September 2020) has been applied across all the IICS population.

**Type of monitoring equipment:** The monitoring equipments used during the WBT test are given below. Verification team has checked the monitoring equipments during from the photos /14/.

|                       | Weighing scale             |
|-----------------------|----------------------------|
| Type                  | TCS                        |
| Accuracy class        | 150 kg capacity by 0.01 kg |
| Calibration date      | 14/09/2020                 |
| Calibration entity    | UNBS                       |
| Certificate number    | 01201657                   |
| Serial number         | 66286                      |
| Calibration frequency | Before annual monitoring   |
|                       | Digital thermometer        |

|                       |                              |
|-----------------------|------------------------------|
| Type                  | SL-TH01 Model TME 2000       |
| Accuracy class        | -200° C to 1372° C by 0.1° C |
| Calibration date      | 14/09/2020                   |
| Calibration entity    | UNBS                         |
| Certificate number    | 02200505                     |
| Serial number         | SL-TH01                      |
| Calibration frequency | Before annual monitoring     |

|                       |                          |
|-----------------------|--------------------------|
|                       | Moisture meter           |
| Type                  | -                        |
| Accuracy class        | 5 – 50%                  |
| Calibration date      | 17/09/2020               |
| Calibration entity    | UNBS                     |
| Certificate number    | 06200424                 |
| Serial number         | CP/1/215                 |
| Calibration frequency | Before annual monitoring |

**Is accuracy of the monitoring equipment as stated in the PDD?:** No accuracy has been defined in the registered PDD /25/. The accuracy of the instruments is as per the industry standard and hence accepted.

**Calibration frequency /interval:** WBT test for IICS efficiency was done from 21/09/2020 to 02/10/2020 as checked from the WBT test records /09/. As verified from the calibration records /06/, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test which is accepted to the verification team.

**Is the calibration interval in line with the monitoring plan of the PDD?:** Calibration frequency of the monitoring instruments has not been defined in the monitoring plan /25/. During this monitoring period, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test (from 21/09/2020 to 02/10/2020) which is accepted to the verification team

**Company performing the calibration:** As verified from calibration reports /06/, The Calibration of all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) was done by Uganda National Bureau of Standards which is a government agency and hence accepted to the verification team.

**Did calibration confirm proper functioning of monitoring equipment? (Yes / No):** Verification team has checked the calibration records /06/ for all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) and found the instruments functioning properly.

**Is (are) calibration(s) valid for the whole reporting period?:** Not applicable as the monitoring instruments are only used during the WBT test which was done from 21/09/2020 to 02/10/2020. During this monitoring period, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test which is accepted to the verification team.

**If applicable, has the reported data been cross-checked with other available data?:** Not applicable

**How were the values in the monitoring report verified?:** DOE has checked all the WBT monitoring data for 12 IICS /09/ and the ER sheet /04/. The data was found consistent.

Average efficiency of the 12 IICS has been considered for the ER calculation /04/ which is accepted to the verification team.

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|  | <p><b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes</p> <p><b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not Applicable</p> <p><b>2</b></p> <p><b>Data/Parameter:</b> tfraction i</p> <p><b>Unit:</b> Fraction of 365 for Institutions, Fraction of 236 for Schools</p> <p><b>Description:</b> Fraction of the days in use in year y of the IICS installed</p> <p><b>Value(s) of monitored parameter:</b> ER calculation spreadsheet (column T of tab ER calculations /04/). The value of the monitoring parameter is reported in the ER sheet /04/. As verified from the sales agreement /10/ and ER sheet /04/. The number of operational days of an IICS is calculated from the commissioning date (date of use) of the IICS which is the date on which the first IICS is put into use for the first time. For each IICS, "tfraction,i" is calculated by the number of days the IICS is in use in the respective year divided by 365.</p> <p>The commissioning date is provided by the kitchen staff and the school/institution officials as of when they agree to put the IICS in use. Simoshi confirms this date is true through an on-site visit. Verification team has verified this process from the remote interview of PP and the schools official/kitchen staff.</p> <p>This monitoring parameter is related to the ex-ante parameter <b>Bold,p</b> (given under section B.6.2 of the registered PDD /25/) which is sourced from the Standardized Baseline: ASB0016 'Institutional Cook Stoves in Uganda', Version 01.0 /37/. Under the Standardized Baseline, the baseline annual quantity of the woody biomass per person per year (<i>Annual quantity of woody biomass that would have been used per person in the school/institution in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices</i>) has already considered 236 operation days of a year. The same is verified from the 2<sup>nd</sup> submission of approval history of the Standardized baseline /37/.</p> <p>Hence for each IICS, "tfraction,i" is calculated by the number of days the IICS is in use in the respective year divided by 365 which is accepted to the verification team.</p> <p>To verify this monitoring parameter, verification team has done the IICS sampling from the distributed IICS under the project activity (till the end of this monitoring period) as discussed under section D.4 of this report. Verification team has verified the monitoring parameter through sales agreement (mention the date of use of IICS) /10/, remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report. Hence the verification team was able to conclude that this parameter is being monitored &amp; recorded as per the monitoring plan.</p> <p><b>Measuring/reporting frequency:</b> The commissioning date of the IICS is mentioned in the sales agreement as and when the IICS is distributed as verified from the sales agreement /10/ and from sample IICS remote interview. For each IICS, "tfraction,i" is calculated by the number of days the IICS is in use in the respective year divided by 365 and hence reported yearly which is in compliance with the monitoring plan /25/. The same is verified from the ER sheet /04/.</p> <p><b>Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):</b> Yes</p> <p><b>Type of monitoring equipment:</b> Not applicable<br/> <b>Is accuracy of the monitoring equipment as stated in the PDD?:</b> Not applicable<br/> <b>Calibration frequency /interval:</b> Not applicable<br/> <b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Not</p> |
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|   | <p>applicable<br/> <b>Company performing the calibration:</b> Not applicable<br/> <b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Not applicable<br/> <b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable</p> <p><b>If applicable, has the reported data been cross-checked with other available data?:</b> Not Applicable</p> <p><b>How were the values in the monitoring report verified?:</b> For each IICS, "tfraction,i" is calculated by the number of days the IICS is in use in the respective year divided by 365 and hence reported yearly which is in compliance with the monitoring plan /25/. The same is verified from the ER sheet /04/.<br/> Verification team has verified the monitoring parameter through check of the sales agreement (mention the date of use of IICS) /10/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report.</p> <p><b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes</p> <p><b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not Applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3 | <p><b>Data/Parameter:</b> Date of commissioning of project device i</p> <p><b>Unit:</b> Date</p> <p><b>Description:</b> Actual date of commissioning of the project device</p> <p><b>Value(s) of monitored parameter:</b> ER calculation spreadsheet (column D of tab ER calculations /04/ and column E of tab IICS serial numbers /04/). The value of the monitoring parameter is reported in the ER sheet /04/. As verified from the sales agreement /10/ and ER sheet /04/, The number of operational days of an IICS is calculated from the commissioning date (date of use) of the IICS which is the date on which the IICS is put into use for the first time.</p> <p>The commissioning date is provided by the kitchen staff and the school/institution officials as of when they agree to put the IICS in use. Simoshi confirms this date is true through an on-site visit. Verification team has verified this process from the remote interview of PP and the schools official/kitchen staff.</p> <p>To verify this monitoring parameter, verification team has done the IICS sampling from the distributed IICS under the project activity (till the end of this monitoring period) as discussed under section D.4 of this report. Verification team has verified the monitoring parameter through check of the sales agreement (mention the date of use of IICS) /10/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report. Hence the verification team was able to conclude that this parameter is being monitored &amp; recorded as per the monitoring plan. CAR-02 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p><b>Measuring/reporting frequency:</b> The commissioning date of the IICS is mentioned in the sales agreement as and when the IICS is distributed as verified from the sales agreement /10/ and from sample IICS remote interview. This parameter is being monitored &amp; recorded as per the monitoring plan.</p> <p><b>Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):</b> Yes</p> |

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|   | <p> <b>Type of monitoring equipment:</b> Not applicable<br/> <b>Is accuracy of the monitoring equipment as stated in the PDD?:</b> Not applicable<br/> <b>Calibration frequency /interval:</b> Not applicable<br/> <b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Not applicable<br/> <b>Company performing the calibration:</b> Not applicable<br/> <b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Not applicable<br/> <b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable         </p> <p> <b>If applicable, has the reported data been cross-checked with other available data?:</b> Not Applicable         </p> <p> <b>How were the values in the monitoring report verified?:</b> The commissioning date of the IICS is mentioned in the sales agreement as and when the IICS is distributed as verified from the sales agreement /10/ and from sample IICS remote interview. Verification team has verified the monitoring parameter through check of the sales agreement (mention the date of use of IICS) /10/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent.         </p> <p> <b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes         </p> <p> <b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not Applicable         </p>                                                                                                                                                                                                                                                                                                                                              |
| 4 | <p> <b>Data/Parameter:</b> <math>N_{y,inst}</math> </p> <p> <b>Unit:</b> Number of people in the school/institution in year y         </p> <p> <b>Description:</b> Number of people in the school/institution that consume food cooked by IICS         </p> <p> <b>Value(s) of monitored parameter:</b> 768 (column N row 174, from tab Ny Term Information Update of ER calculation spreadsheet /04/).         </p> <p>           The form "Term Information Update" is completed for each school/institution three times per year and contains the detailed information of number of people attending, type (day or boarding) and it is signed and officially stamped by the school/institution. The average of the information in the three 'Term Information Update' sheets of the respective year has been taken for the number of people in the school/institution in year y.         </p> <p>           To verify this monitoring parameter, verification team has done the schools sampling from the total number of schools under the project activity (till the end of this monitoring period) as discussed under section D.4 of this report. Verification team has verified the monitoring parameter through check of the Term Information Update /11/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report. Hence the verification team was able to conclude that this parameter is being monitored &amp; recorded as per the monitoring plan.         </p> <p> <b>Measuring/reporting frequency:</b> This monitoring parameter is measured three times a year by PP through "Term Information Update" /11/. The average of the information in the three 'Term Information Update' sheets of the respective year has been taken for the number of people in the school/institution in year y. The measuring/reporting frequency is as per the monitoring plan /25/. CL-03 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.         </p> |

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|   | <p><b>Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):</b> Yes</p> <p><b>Type of monitoring equipment:</b> Not applicable<br/> <b>Is accuracy of the monitoring equipment as stated in the PDD?:</b> Not applicable<br/> <b>Calibration frequency /interval:</b> Not applicable<br/> <b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Not applicable<br/> <b>Company performing the calibration:</b> Not applicable<br/> <b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Not applicable<br/> <b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable</p> <p><b>If applicable, has the reported data been cross-checked with other available data?:</b> Not applicable</p> <p><b>How were the values in the monitoring report verified?:</b> Verification team has verified the monitoring parameter through check of the Term Information Update /11/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report.</p> <p><b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes</p> <p><b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not applicable</p>                                                                                                                                                                                                                             |
| 5 | <p><b>Data/Parameter:</b> <math>\mu\text{y}</math></p> <p><b>Unit:</b> Fraction</p> <p><b>Description:</b> Adjustment to account for any continued use of pre-project devices during the year y</p> <p><b>Value(s) of monitored parameter:</b> 1, column O of tab ER calculations /04/. The value of the monitoring parameter is reported in the ER sheet /04/. The average of the information in the quarterly 'Kitchen Information Update' sheets of the respective year has been taken for ER calculation for that year.</p> <p>Simoshi collects information in the form "Kitchen Information Update" /12/ from each school/institution on a quarterly basis to ensure that no traditional stoves are seen in use. Throughout the monitoring period, no pre-project devices were found in use in any of the participating school/institution's kitchens.</p> <p>To verify this monitoring parameter, verification team has done the schools sampling from the total number of schools under the project activity (till the end of this monitoring period) as discussed under section D.4 of this report. Verification team has verified the monitoring parameter through check of the Kitchen Information Update /12/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report. Hence the verification team was able to conclude that this parameter is being monitored &amp; recorded as per the monitoring plan.</p> <p><b>Measuring/reporting frequency:</b> This monitoring parameter is measured quarterly by PP through "Kitchen Information Update" /12/. The average of the information in the quarterly 'Kitchen Information Update' sheets of the respective year has been taken for ER calculation for that year. Verification team has checked all the survey (i.e. "Kitchen Information Update") dates for this monitoring period under the Tab "Kitchen</p> |

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|   | <p>Information Update” of ER calculation sheet /04/ and found consistent with the supportive document /12/. Quarterly frequency has been maintained most of the times except few delays for some schools. Since the baseline devices were never found in use, hence these minor delays do not have any impact on the emission reduction calculation. CL-02 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p><b>Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):</b> No, Verification team has checked all the survey (i.e. “Kitchen Information Update”) dates for this monitoring period under the Tab “Kitchen Information Update” of ER calculation sheet /04/ and found consistent with the supportive document /12/. Quarterly frequency has been maintained most of the times except few delays for some schools. Since the baseline devices were never found in use, hence these minor delays do not have any impact on the emission reduction calculation. CL-02 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p><b>Type of monitoring equipment:</b> Not applicable<br/> <b>Is accuracy of the monitoring equipment as stated in the PDD?:</b> Not applicable<br/> <b>Calibration frequency /interval:</b> Not applicable<br/> <b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Not applicable<br/> <b>Company performing the calibration:</b> Not applicable<br/> <b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Not applicable<br/> <b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable</p> <p><b>If applicable, has the reported data been cross-checked with other available data?:</b> Not applicable</p> <p><b>How were the values in the monitoring report verified?:</b> Verification team has verified the monitoring parameter through check of the Kitchen Information Update /12/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report.</p> <p><b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes</p> <p><b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not applicable</p> |
| 6 | <p><b>Data/Parameter:</b> <math>U_{y,inst}</math></p> <p><b>Unit:</b> Fraction</p> <p><b>Description:</b> Usage rate of stoves in institution in year y</p> <p><b>Value(s) of monitored parameter:</b> 1, column P of tab ER calculations /04/. The value of the monitoring parameter is reported in the ER sheet /04/. The average of the information in the quarterly ‘Kitchen Information Update’ sheets of the respective year has been taken for ER calculation for that year.</p> <p>Simoshi collects information in the form “Kitchen Information Update” /12/ from each school/institution on a quarterly basis to ensure that all IICS are in use, the condition of the IICS and whether they need maintenance/repair. If a school/institution does not use all of its IICS, Simoshi has asked for the reasons and take immediate corrective actions (if needed) to repair or replace those IICS not in use. Throughout the monitoring period, the project devices have always been found in use in all of the quarterly ‘Kitchen Information Updates’.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                 | <p>To verify this monitoring parameter, verification team has done the schools sampling from the total number of schools under the project activity (till the end of this monitoring period) as discussed under section D.4 of this report. Verification team has verified the monitoring parameter through check of the Kitchen Information Update /12/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report. Hence the verification team was able to conclude that this parameter is being monitored &amp; recorded as per the monitoring plan.</p> <p><b>Measuring/reporting frequency:</b> This monitoring parameter is measured quarterly by PP through "Kitchen Information Update" /12/. The average of the information in the quarterly 'Kitchen Information Update' sheets of the respective year has been taken for ER calculation for that year. Verification team has checked all the survey (i.e. "Kitchen Information Update") dates for this monitoring period under the Tab "Kitchen Information Update" of ER calculation sheet /04/ and found consistent with the supportive document /12/. Quarterly frequency has been maintained most of the times except few delays for some schools. Since project devices have always been found in use in all of the quarterly 'Kitchen Information Updates', hence these minor delays do not have any impact on the emission reduction calculation. CL-02 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p><b>Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No):</b> No, Verification team has checked all the survey (i.e. "Kitchen Information Update") dates for this monitoring period under the Tab "Kitchen Information Update" of ER calculation sheet /04/ and found consistent with the supportive document /12/. Quarterly frequency has been maintained most of the times except few delays for some schools. Since project devices have always been found in use in all of the quarterly 'Kitchen Information Updates', hence these minor delays do not have any impact on the emission reduction calculation. CL-02 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p><b>Type of monitoring equipment:</b> Not applicable<br/> <b>Is accuracy of the monitoring equipment as stated in the PDD?:</b> Not applicable<br/> <b>Calibration frequency /interval:</b> Not applicable<br/> <b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Not applicable<br/> <b>Company performing the calibration:</b> Not applicable<br/> <b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Not applicable<br/> <b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable</p> <p><b>If applicable, has the reported data been cross-checked with other available data?:</b> Not applicable</p> <p><b>How were the values in the monitoring report verified?:</b> Verification team has verified the monitoring parameter through check of the Kitchen Information Update /12/, sample remote interview and also from the details given under the ER sheet /04/ and found consistent. The sampling approach and the results of the sampling by DOE are explained in the section D.4 of this report.</p> <p><b>Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?:</b> Yes</p> <p><b>In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?:</b> Not applicable</p> |
| <b>Findings</b> | CL-01, CL-02, CL-03 and CAR-02 have been raised in this regard and successfully closed. Refer Appendix 4 of this report for more details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>Conclusion</b> | As per para 360 to 361 of CDM VVS for project activities version 02.0 /27/, the assessment team concludes that the monitoring of the project activity is being carried out in accordance with the registered PDD monitoring plan /25/ and meets the requirements of the applied monitoring methodology /23/. The adequacy and compliance of the registered monitoring plan /25/ in the MR can be concluded to be conforming. The flow of the information from the point of generation up to reporting has been reviewed and found to be correct and appropriate meeting the requirements of the applied methodology. |
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### E.6.3. Implementation of sampling plan

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| <b>Means of verification</b> | There is no sampling plan applied for this project activity as verified from the registered PDD /25/.            |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                |
| <b>Conclusion</b>            | There is no sampling plan applied for this project activity which is in compliance with the registered PDD /25/. |

### E.7. Compliance with the calibration frequency requirements for measuring instruments

| <b>Means of verification</b> | <p>Verification team has checked whether the calibration of the measuring equipment that has an impact on the claimed GHG emission reductions is conducted by the PP at a frequency specified in the monitoring plan /25/.</p> <p>For the monitoring parameter <math>\eta_{new,i,j}</math>, the monitoring equipments (Weighing scale, Digital thermometer and Moisture meter) were used during the WBT test. Verification team has checked the monitoring equipments from the photos /14/.</p> <table border="1"> <thead> <tr> <th colspan="2">Weighing scale</th></tr> </thead> <tbody> <tr> <td>Type</td><td>TCS</td></tr> <tr> <td>Accuracy class</td><td>150 kg capacity by 0.01 kg</td></tr> <tr> <td>Calibration date</td><td>14/09/2020</td></tr> <tr> <td>Calibration entity</td><td>UNBS</td></tr> <tr> <td>Certificate number</td><td>01201657</td></tr> <tr> <td>Serial number</td><td>66286</td></tr> <tr> <td>Calibration frequency</td><td>Before annual monitoring</td></tr> </tbody> </table><br><table border="1"> <thead> <tr> <th colspan="2">Digital thermometer</th></tr> </thead> <tbody> <tr> <td>Type</td><td>SL-TH01 Model TME 2000</td></tr> <tr> <td>Accuracy class</td><td>-200° C to 1372° C by 0.1° C</td></tr> <tr> <td>Calibration date</td><td>14/09/2020</td></tr> <tr> <td>Calibration entity</td><td>UNBS</td></tr> <tr> <td>Certificate number</td><td>02200505</td></tr> <tr> <td>Serial number</td><td>SL-TH01</td></tr> <tr> <td>Calibration frequency</td><td>Before annual monitoring</td></tr> </tbody> </table><br><table border="1"> <thead> <tr> <th colspan="2">Moisture meter</th></tr> </thead> <tbody> <tr> <td>Type</td><td>-</td></tr> <tr> <td>Accuracy class</td><td>5 – 50%</td></tr> <tr> <td>Calibration date</td><td>17/09/2020</td></tr> <tr> <td>Calibration entity</td><td>UNBS</td></tr> <tr> <td>Certificate number</td><td>06200424</td></tr> <tr> <td>Serial number</td><td>CP/1/215</td></tr> <tr> <td>Calibration frequency</td><td>Before annual monitoring</td></tr> </tbody> </table> <p><b>Calibration frequency /interval:</b> WBT test for IICS efficiency was done from 21/09/2020 to 02/10/2020 as checked from the WBT test records /09/. As verified from the calibration records /06/, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test which is accepted to the verification team.</p> <p><b>Is the calibration interval in line with the monitoring plan of the PDD?:</b> Calibration frequency of the monitoring instruments has not been defined in the monitoring plan /25/. During this monitoring period, the calibration of the</p> | Weighing scale |  | Type | TCS | Accuracy class | 150 kg capacity by 0.01 kg | Calibration date | 14/09/2020 | Calibration entity | UNBS | Certificate number | 01201657 | Serial number | 66286 | Calibration frequency | Before annual monitoring | Digital thermometer |  | Type | SL-TH01 Model TME 2000 | Accuracy class | -200° C to 1372° C by 0.1° C | Calibration date | 14/09/2020 | Calibration entity | UNBS | Certificate number | 02200505 | Serial number | SL-TH01 | Calibration frequency | Before annual monitoring | Moisture meter |  | Type | - | Accuracy class | 5 – 50% | Calibration date | 17/09/2020 | Calibration entity | UNBS | Certificate number | 06200424 | Serial number | CP/1/215 | Calibration frequency | Before annual monitoring |
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| Weighing scale               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Type                         | TCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Accuracy class               | 150 kg capacity by 0.01 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration date             | 14/09/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration entity           | UNBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Certificate number           | 01201657                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Serial number                | 66286                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration frequency        | Before annual monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Digital thermometer          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Type                         | SL-TH01 Model TME 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Accuracy class               | -200° C to 1372° C by 0.1° C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration date             | 14/09/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration entity           | UNBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Certificate number           | 02200505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Serial number                | SL-TH01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration frequency        | Before annual monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Moisture meter               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Type                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Accuracy class               | 5 – 50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration date             | 17/09/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration entity           | UNBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Certificate number           | 06200424                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Serial number                | CP/1/215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |
| Calibration frequency        | Before annual monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |  |      |     |                |                            |                  |            |                    |      |                    |          |               |       |                       |                          |                     |  |      |                        |                |                              |                  |            |                    |      |                    |          |               |         |                       |                          |                |  |      |   |                |         |                  |            |                    |      |                    |          |               |          |                       |                          |

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|                   | <p>monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test (from 21/09/2020 to 02/10/2020) which is accepted to the verification team</p> <p><b>Company performing the calibration:</b> As verified from calibration reports /06/, The Calibration of all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) was done by Uganda National Bureau of Standards which is a government agency and hence accepted to the verification team.</p> <p><b>Did calibration confirm proper functioning of monitoring equipment? (Yes / No):</b> Verification team has checked the calibration records /06/ for all the three monitoring instruments (Weighing scale, Digital thermometer and Moisture meter) and found the instruments functioning properly.</p> <p><b>Is (are) calibration(s) valid for the whole reporting period?:</b> Not applicable as the monitoring instruments are only used during the WBT test which was done from 21/09/2020 to 02/10/2020. During this monitoring period, the calibration of the monitoring equipments (Weighing scale calibrated on 14/09/2020, Digital thermometer calibrated on 14/09/2020 and Moisture meter calibrated on 17/09/2020) was done before the WBT test which is accepted to the verification team</p> |
| <b>Findings</b>   | No CAR/CL raised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conclusion</b> | As per para 365 to 370 of CDM VVS for project activity version 02.0 /27/, the Verification team confirms that the calibration frequency is in line with the monitoring plan mentioned in the registered PDD /25/.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## E.8. Assessment of data and calculation of emission reductions or net removals

### E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

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| <b>Means of verification</b> | <p>Verification team confirm that the calculation, applied formulae and the method for calculation of baseline emissions are in accordance with the registered PDD /25/ and are in line with the requirements of the applied methodology (AMS-II.G. ver. 8 /23/). The formulae and the methods referred in the MR /02/ and the emission reduction calculation spread sheet /04/ for estimation of emission reduction complies with the corresponding formulae and methods in the registered PDD /25/.</p> <p>As per the registered PDD /25/, The calculation of emission reductions is based on the number of individuals served instead of number of project devices.</p> <p>As per the registered PDD /25/, the emission reduction is calculated using the formula:</p> $ER_{y,i} = B_{y,savings,i} \times N_{y,i} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected\_fossilfuel} \times t_{fraction,i} - LE_y$ <p>Where:</p> <p><math>B_{y,savings,i}</math> = Quantity of woody biomass that is saved in tonnes per person in year y</p> <p><math>N_{y,i}</math> = Number of individuals served in year y</p> <p><math>\mu_y</math> = Adjustment to account for any continued use of pre-project device during the year y when applying equations 6 and 8 of the methodology (fraction). Use 1.0 in other cases</p> <p><math>f_{NRB,y}</math> = Fraction of woody biomass saved by the project activity in year y.</p> <p><math>NCV_{biomass}</math> = Net calorific value of the non-renewable woody biomass that is substituted.</p> <p><math>EF_{projected\_fossilfuel}</math> = Emission factor for the fossil fuels projected to be used for substitution of non-renewable woody biomass by similar consumers.</p> <p><math>t_{fraction,i}</math> = Fraction of the days in use in year y of the IICS installed</p> <p><math>LE_y</math> = Leakage emissions in the year y</p> <p>For <math>B_{y,savings,i}</math>, PP has used equation 6 of option 3 of the applied methodology AMS-II.G. Version 8 /23/ which is in compliance with the registered PDD /25/.</p> |
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|                   | $B_{y,savings,i,j} = B_{old,i,j} \times \left(1 - \frac{\eta_{old,i,j}}{\eta_{new,i,j}}\right)$ <p>Where:</p> <p><math>B_{old,i,j}</math> = Annual quantity of woody biomass that would have been used per person in the school/institution in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices</p> <p><math>\eta_{old,i,j}</math> = Efficiency of the baseline system/s being replaced by project devices of type i.</p> <p><math>\eta_{new,i,j}</math> = Efficiency of the system being deployed as part do the project activity (fraction), as determined using the Water Boiling Test (WBT) protocol.</p> <p>All the ex-ante parameters (1. <math>B_{old,i,j}</math>, 2. <math>\eta_{old,i,j}</math>, 3. <math>f_{NRB,y}</math>, 4. <math>NCV_{biomass}</math>, 5. <math>EF_{projected\_fossilfuel}</math>, 6. <math>LE_y</math>) have been justified in the section E.6.1 of this report. Verification team confirms that all the ex-ante parameters used in the ER sheet /04/ are in accordance with the registered PDD /25/ and also the applied methodology /23/.</p> <p>Also the ex-post parameters (1. <math>\eta_{new,i,j}</math>, 2. <math>t_{fraction,i}</math>, 3. <math>N_{y,i}</math>, 4. <math>\mu_y</math>) have been justified in the section E.6.2 of this report. Verification team confirms that all ex-post parameters have been monitored in accordance with the registered PDD /25/ and also the applied methodology /23/.</p> <p>The calculation of the emission reductions /04/ is based on an individual institution based on the number of individuals served which is in compliance with the registered PDD /25/.</p> <p>In the case of schools, Emission reduction is based on the average number of children attending on a day and boarding basis, and including the number of staff also working in the school. Till the end of this monitoring period, total 62 schools were enrolled in the project and the calculation of the actual number of pupils enrolled and staff (teachers and non-teachers) in the school is based on the actual data of these 62 Schools as recorded in the document Term Information Update /11/.</p> <p>The steps taken and the equations and parameters applied in the ER sheet /04/ to calculate emission reductions comply with the requirements of the registered PDD /25/ and the selected methodology /23/. The emission reduction calculation is completely traceable and verified by reviewing the ER spread sheet /04/ submitted by the PP.</p> <p>Hence baseline emission for this monitoring period is 3,950 tCO<sub>2e</sub> (Rounded down).</p> <p>PP has submitted the calculation in the excel sheet /04/. The baseline calculation in the excel sheet is checked whether the calculation is in accordance with the formula given in the registered PDD /25/ and the selected methodology /23/ and found OK.</p> |
| <b>Findings</b>   | CAR-01 and CAR-03 have been raised in this regard and successfully closed. Refer Appendix 4 of this report for more details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conclusion</b> | <p>As per para 372 and 373 of CDM VVS for project activity version 02.0 /27/, Verification team concludes that the calculation provided in the monitoring report /02/ and emission reduction spread sheet /04/ are complete and reflect all the requirements of the registered monitoring plan /25/ and:</p> <p>a) All the monitored data pertaining to baseline calculation as required by the registered monitoring plan was available to PP, the same has been verified by the verification team.</p> <p>b) The calculations of GHG emissions have been carried out in accordance with the equations and methods described in the registered monitoring plan /25/ and applied methodology /23/.</p> <p>c) The ex-ante emission factors correctly sourced from the registered PDD /25/ and</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|  |                                                                                                                                                                            |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | was found to be appropriate and justified.<br>d) The ER calculation sheet /04/ provided is clear, transparent and the calculations provided in the sheet are reproducible. |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| <b>Means of verification</b> | Document Review and remote audit.                       |
| <b>Findings</b>              | No CAR/CL raised.                                       |
| <b>Conclusion</b>            | There is no project emissions and hence not applicable. |

#### E.8.3. Calculation of leakage GHG emissions

|                              |                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | Document Review and remote audit.                                                                                                                                                   |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                                                                                   |
| <b>Conclusion</b>            | Potential leakage is accounted for by multiplying with net gross adjustment factor which is in compliance with the registered PDD /25/ and hence accepted to the Verification team. |

#### E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The verification team has checked whether calculations of GHG emission reduction have been carried out in accordance with the formulae and methods described in the registered monitoring plan /25/.<br>Section E.4 of MR demonstrate the summary of GHG emission reductions for the monitoring period and calculated according to the applied methodology as follows:<br>$ER_y = BE_y - L_y$<br>The ER calculation sheet and monitoring report is verified to check the calculation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Conclusion</b>            | As per para 372 and 373 of CDM VVS for project activity version 02.0 /27/, Verification team concludes that the calculation provided in the monitoring report /02/, and emission reduction spread sheet /04/ are complete and reflect all the requirements of the monitoring plan /25/ and:<br><ul style="list-style-type: none"> <li>a) The emission reduction value reported (i.e. 3,950 tCO<sub>2</sub>e) is verified to be correct.</li> <li>b) The summary table in the MR has been filled correctly and the values are in line with the related emissions reduction spreadsheet.</li> <li>c) All the monitored data as required by the registered monitoring plan /25/ was available to PP, the same has been verified by the verification team.</li> <li>d) Formula used for the baseline was in line to the registered monitored plan /25/.</li> <li>e) The ex-ante emission factors correctly sourced from the registered PDD /25/ and was found to be appropriate and justified.</li> </ul> |

#### E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

|                       |                                                                                                                                                                                                                                                                                                                                    |                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Means of verification | Section E.5 of the MR includes a comparison of the calculated actual emission reductions with the ex-ante calculated values in the registered PDD /25/.                                                                                                                                                                            |                                                                                            |
|                       | Emission reduction estimated as per the registered PDD /25/                                                                                                                                                                                                                                                                        | Actual emission reduction achieved as per Monitoring report /02/ for the monitoring period |
|                       | 29,262 tCO <sub>2</sub> e                                                                                                                                                                                                                                                                                                          | 3,950 tCO <sub>2</sub> e                                                                   |
|                       | In summary, verification team confirms that the actual emission reduction is lower than the estimate of the registered PDD /25/ for the current monitoring period.                                                                                                                                                                 |                                                                                            |
| Findings              | No CAR/CL is raised.                                                                                                                                                                                                                                                                                                               |                                                                                            |
| Conclusion            | In summary, verification team confirms that the actual emission reduction is lower than the estimate of the registered PDD /25/ for the current monitoring period. Verification team confirms that the comparison for the estimated and actual emission reduction for this monitoring period is correctly calculated and reported. |                                                                                            |

**E.8.6. Remarks on difference from estimated value in registered PDD**

|                              |                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The actual emission reductions are lower than the estimated emission reductions based on the registered PDD /25/.                                                                                                  |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                                                                                                                  |
| <b>Conclusion</b>            | The actual emission reductions are lower compared to the ex-ante calculations because the number of schools/institutions included under the Project Activity is lower than anticipated in the registered PDD /25/. |

**E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards**

|                              |                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The complete monitoring period falls after 01 January 2013 and therefore the total ERs during the monitoring period i.e. 01/06/2019 - 19/03/2020 pertains to the 2 <sup>nd</sup> commitment period. Total 3,950 tCO <sub>2</sub> e CERs verified during this monitoring period i.e. 01/06/2019 - 19/03/2020 (including both the days). |
| <b>Findings</b>              | No CAR/CL raised.                                                                                                                                                                                                                                                                                                                      |
| <b>Conclusion</b>            | Total 3,950 tCO <sub>2</sub> e CERs verified pertains to the period from 1 January 2013 onwards.                                                                                                                                                                                                                                       |

**E.9. Assessment of reported sustainable development co-benefits**

|                              |                                         |
|------------------------------|-----------------------------------------|
| <b>Means of verification</b> | Not applicable for the project activity |
| <b>Findings</b>              | Not applicable for the project activity |
| <b>Conclusion</b>            | Not applicable for the project activity |

**E.10. Global stakeholder consultation**

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| <b>Means of verification</b> | Not applicable for 2 <sup>nd</sup> periodic verification. |
| <b>Findings</b>              | Not applicable for 2 <sup>nd</sup> periodic verification. |
| <b>Conclusion</b>            | Not applicable for 2 <sup>nd</sup> periodic verification. |

**SECTION F. Internal quality control**

>> The draft verification report prepared by team leader is reviewed by an independent technical reviewer before requesting for issuance for this verification period for the project activity to confirm the internal procedures established by 4KES are duly followed and the verification report/opinion is reached in an objective manner and complies with the applicable CDM requirements. The technical review is conducted by the technical reviewer qualified as per the 4KES procedures established for the qualification of CDM personnel as per EB guidelines.

The independent technical reviewer may approve or reject the draft verification report. The findings may be identified even at this stage, which needs to be satisfactorily resolved, before the request for issuance is submitted to UNFCCC. The final decision is taken by the Head of the DOE. The technical reviewer approves the final version of the report.

The final approval is authorized by the Director, 4KES once the report is approved by the Head/DOE Manager.

**SECTION G. Verification opinion**

>> The verification team confirms that the evidence is of sufficient quantity, appropriate quality and reliable. The reported values, notation, units and sources in the monitoring report for all the monitoring parameters have been cross checked with the emission reduction sheet and monitoring report. During the course of verification, the data submitted by PP was cross verified with the values mentioned in the emission reduction sheet /04/ and monitoring report /02/. The procedure for data monitoring, recording, transfer and compilation was also verified and found in compliance with the monitoring plan as mentioned in the registered PDD/25/.

Evidences (Documents/interview/remote audit) referred for verification of individual monitoring parameter and fixed parameters are defined in section E.6 above. It is confirmed by the assessment team that the reported emission reductions have been conservatively calculated. A list of referred documents for verification is also included in Appendix 3 of this report.

Based on the information seen and evaluated we confirm that the implementation of the project has resulted in 3,950 tCO<sub>2</sub>e emission reductions during period 01/06/2019 - 19/03/2020 (Including both the days).

**SECTION H. Certification statement**

>>4K EARTH SCIENCE PRIVATE LIMITED has been contracted by 'Simoshi Limited' to undertake independent verification and certification for the greenhouse gas (GHG) emission reductions reported from the CDM Project activity "Institutional Improved Cook Stoves for Schools and Institutions in Uganda" (UNFCCC Ref. No. 10345) for the monitoring period 01/06/2019 - 19/03/2020 (including both dates) in the Monitoring Report Version 01 (first version) dated 15/10/2020 /01/.

The verification is based on the registered PDD /25/ and the monitoring report for this project. Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakech accord, as well as those defined by the CDM Executive Board.

The management of the 'Simoshi Limited' is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project Final Monitoring Report Version 04 dated 09/12/2020/02/. The calculation and determination of GHG emission reductions from the project is the responsibility of the management of the 'Simoshi Limited'. The development and maintenance of records and reporting procedures are in accordance with the Monitoring Report Version 04 dated 09/12/2020/02/.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the monitoring period 01/06/2019 - 19/03/2020 (including both dates) based on the reported emission reductions in the Final Monitoring Report Version 04 dated 09/12/2020 /02/ for the same period.

Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, 4K EARTH SCIENCE PRIVATE LIMITED planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated. 4K EARTH SCIENCE PRIVATE LIMITED confirms the following;

**Reporting period:** 01/06/2019 - 19/03/2020 (including both dates)

**Verified and certified emission in the above reporting period:**

|                                             | <b>Amount</b> | <b>Unit</b>             |
|---------------------------------------------|---------------|-------------------------|
| GHG Emission Reductions (ER)                | 3,950         | tCO <sub>2</sub> e      |
| Project emissions (PE)                      | 0             | tCO <sub>2</sub> e      |
| Leakage emissions (LE)                      | 0             | tCO <sub>2</sub> e      |
| <b>Certified emission reductions (CERs)</b> | <b>3,950</b>  | <b>tCO<sub>2</sub>e</b> |

## Appendix 1. Abbreviations

| Abbreviations     | Full texts                                                                 |
|-------------------|----------------------------------------------------------------------------|
| BE                | Baseline Emission                                                          |
| CAR               | Corrective Action Request                                                  |
| CDM               | Clean Development Mechanism                                                |
| CDM EB            | CDM Executive Board                                                        |
| CDM PCP           | Clean Development Mechanism Project Cycle Procedure for Project Activities |
| CDM PS            | Clean Development Mechanism Project Standard for Project Activities        |
| CDM VVS           | CDM Validation and Verification Standard for Project Activities            |
| CER               | Certified Emission Reduction(s)                                            |
| CL                | Clarification request                                                      |
| CO <sub>2</sub>   | Carbon dioxide                                                             |
| CO <sub>2</sub> e | Carbon dioxide equivalent                                                  |
| CP                | Commitment Period                                                          |
| DOE               | Designated Operational Entity                                              |
| EB                | Executive Board                                                            |
| EF                | Emission factor                                                            |
| ER                | Emission Reduction                                                         |
| FAR               | Forward Action Request                                                     |
| GHG               | Greenhouse Gas(es)                                                         |
| MP                | Monitoring Plan                                                            |
| MR                | Monitoring Report                                                          |
| PDD               | Project Design Document                                                    |
| PP                | Project Participant                                                        |
| UNFCCC            | United Nations Framework Convention on Climate Change                      |

## Appendix 2. Competence of team members and technical reviewers

| <b><u>Certificate of Competence</u></b>            |                                                                                                                                          |                              |                                        |                         |                           |                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------|
| <b>Name</b>                                        | <input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Ms.                                                                  | <b>Chetan Swaroop Sharma</b> |                                        |                         |                           |                         |
| <b>Qualification Procedure</b>                     | Fulfil the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects. |                              |                                        |                         |                           |                         |
| <b>Appointed to work as:</b>                       |                                                                                                                                          |                              |                                        |                         |                           |                         |
|                                                    | <b>CDM Validator/Verifier</b>                                                                                                            | <b>Team Leader</b>           | <b>Team Member</b>                     | <b>Technical Expert</b> | <b>Technical Reviewer</b> | <b>Financial Expert</b> |
| <i>Appointed</i>                                   | Yes                                                                                                                                      | Yes                          | Yes                                    | Yes                     | Yes                       | No                      |
| <i>Appointed Date</i>                              | 13-06-2020                                                                                                                               |                              |                                        |                         |                           |                         |
| <b>Authorized to work as Technical Expert for:</b> |                                                                                                                                          |                              |                                        |                         |                           |                         |
| <i>Authorized Technical Area</i>                   | <b>Sectoral Scope</b>                                                                                                                    | <b>TA Code</b>               | <b>Technical Area within the scope</b> |                         |                           |                         |
|                                                    | Energy industries (renewable - / non-renewable sources)                                                                                  | 1.1                          | Thermal energy generation              |                         |                           |                         |
|                                                    | Energy industries (renewable - / non-renewable sources)                                                                                  | 1.2                          | Renewables                             |                         |                           |                         |
|                                                    | Energy distribution                                                                                                                      | 2.1                          | Energy distribution                    |                         |                           |                         |
|                                                    | Energy demand                                                                                                                            | 3.1                          | Energy demand                          |                         |                           |                         |
|                                                    | Waste handling and disposal                                                                                                              | 13.1                         | Solid waste and wastewater             |                         |                           |                         |
|                                                    |                                                                                                                                          |                              |                                        |                         |                           |                         |

|                                                |       |
|------------------------------------------------|-------|
| <b>Authorized to work as Local Expert for:</b> |       |
| Country/Countries                              | India |
| <b>Compliance check by:</b> Anand S. R.        |       |

|                                         |                                                                                                                                          |                         |                    |                         |                           |                         |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------|-------------------------|---------------------------|-------------------------|
| <b><u>Certificate of Competence</u></b> |                                                                                                                                          |                         |                    |                         |                           |                         |
| <b>Name</b>                             | <input type="checkbox"/> Mr.<br><input checked="" type="checkbox"/> Ms.                                                                  | Gloria Veronica Namazzi |                    |                         |                           |                         |
| <b>Qualification Procedure</b>          | Fulfil the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects. |                         |                    |                         |                           |                         |
| <b>Appointed to work as:</b>            |                                                                                                                                          |                         |                    |                         |                           |                         |
|                                         | <b>CDM Validator/Verifier</b>                                                                                                            | <b>Team Leader</b>      | <b>Team Member</b> | <b>Technical Expert</b> | <b>Technical Reviewer</b> | <b>Financial Expert</b> |
| Appointed                               | -                                                                                                                                        | -                       | -                  | -                       | -                         | -                       |
| Appointed Date                          | 28-09-2020                                                                                                                               |                         |                    |                         |                           |                         |

|                                                    |                       |                |                                        |
|----------------------------------------------------|-----------------------|----------------|----------------------------------------|
| <b>Authorized to work as Technical Expert for:</b> |                       |                |                                        |
| Authorized Technical Area                          | <b>Sectoral Scope</b> | <b>TA Code</b> | <b>Technical Area within the scope</b> |
|                                                    |                       |                |                                        |
| <b>Authorized to work as Local Expert for:</b>     |                       |                |                                        |
| Country/Countries                                  | Uganda                |                |                                        |
| <b>Compliance check by:</b> Anand S. R.            |                       |                |                                        |

|                                         |                                                                                                                                          |                    |                    |                         |                           |                         |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|---------------------------|-------------------------|
| <b><u>Certificate of Competence</u></b> |                                                                                                                                          |                    |                    |                         |                           |                         |
| <b>Name</b>                             | <input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Ms.                                                                  | Indumathi C        |                    |                         |                           |                         |
| <b>Qualification Procedure</b>          | Fulfil the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects. |                    |                    |                         |                           |                         |
| <b>Appointed to work as:</b>            |                                                                                                                                          |                    |                    |                         |                           |                         |
|                                         | <b>CDM Validator/Verifier</b>                                                                                                            | <b>Team Leader</b> | <b>Team Member</b> | <b>Technical Expert</b> | <b>Technical Reviewer</b> | <b>Financial Expert</b> |
| Appointed                               | Yes                                                                                                                                      | Yes                | Yes                | Yes                     | Yes                       | No                      |
| Appointed Date                          | 29-12-2018                                                                                                                               |                    |                    |                         |                           |                         |

|                                                    |                                                         |                |                                        |
|----------------------------------------------------|---------------------------------------------------------|----------------|----------------------------------------|
| <b>Authorized to work as Technical Expert for:</b> |                                                         |                |                                        |
| Authorized Technical Area                          | <b>Sectoral Scope</b>                                   | <b>TA Code</b> | <b>Technical Area within the scope</b> |
|                                                    | Energy industries (renewable - / non-renewable sources) | 1.1            | Thermal energy generation              |
|                                                    | Energy industries (renewable - / non-renewable sources) | 1.2            | Renewables                             |
|                                                    | Energy demand                                           | 3.1            | Energy demand                          |
|                                                    | Waste handling and disposal                             | 13.1           | Solid waste and wastewater             |
|                                                    |                                                         |                |                                        |

|                                                |       |
|------------------------------------------------|-------|
| <b>Authorized to work as Local Expert for:</b> |       |
| Country/Countries                              | India |
| <b>Compliance check by:</b> Anand S. R.        |       |

## Appendix 3. Documents reviewed or referenced

| No. | Author                                     | Title                                                                                                                                                                                                                       | References to the document                | Provider        |
|-----|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
| 1.  | Simoshi Limited                            | Webhosted monitoring report                                                                                                                                                                                                 | Version 1.0, dated 15/10/2020 (published) | Simoshi Limited |
| 2.  | Simoshi Limited                            | Final Monitoring report                                                                                                                                                                                                     | Version 4.0, dated 09/12/2020 (final)     | Simoshi Limited |
| 3.  | Simoshi Limited                            | Draft ER calculation sheet                                                                                                                                                                                                  | Corresponding to hosted MR version 1.0    | Simoshi Limited |
| 4.  | Simoshi Limited                            | Final ER calculation sheet                                                                                                                                                                                                  | Corresponding to final MR version 4.0     | Simoshi Limited |
| 5.  | Simoshi Limited and Uga stove              | Commercial agreement between Simoshi Limited and Uga stove                                                                                                                                                                  | 01/02/2017                                | Simoshi Limited |
| 6.  | Uganda National Bureau of Standards        | Calibrations certificates for the monitoring equipment's:<br>1. Balance<br>2. Thermometer<br>3. Moisture meter                                                                                                              | -                                         | Simoshi Limited |
| 7.  | Simoshi Limited and Uga stove              | Technical specification of the IICS distributed (Manual)                                                                                                                                                                    | -                                         | Simoshi Limited |
| 8.  | Uganda Stove Manufacturers Ltd. (UGASTOVE) | Technical document for the lifetime of the IICS distributed                                                                                                                                                                 | 16/11/2016                                | Simoshi Limited |
| 9.  | Simoshi Limited                            | Records for the monitoring parameter $\eta_{new,i,j}$ : Testing results for IICS Ugastove model of 30 litres capacity – WBT for efficiency, efficiency calculation sheet and photos corresponding to this monitoring period | WBT started on 21/09/2020                 | Simoshi Limited |
| 10. | Simoshi Limited                            | Records for the monitoring parameter “ $t_{fraction}$ i” and “Date of commissioning of project device i” i.e. Sales agreement of the IICS distributed under the project activity for this monitoring period                 | -                                         | Simoshi Limited |
| 11. | Simoshi Limited                            | Records for the monitoring parameter $N_{y,inst}$ : School Term update sheet for this monitoring period                                                                                                                     | School Term update sheet                  | Simoshi Limited |
| 12. | Simoshi Limited                            | Records for the monitoring parameters $\mu_y$ and $U_{y,inst}$ : Usage survey results (Kitchen information update) for this monitoring period                                                                               | Kitchen information update                | Simoshi Limited |
| 13. | Simoshi Limited                            | 1. Training records for kitchen/monitoring team etc.<br>2. School kitchen training assessment                                                                                                                               | -                                         | Simoshi Limited |
| 14. | Simoshi Limited                            | Photographic of project IICS and Monitoring equipments                                                                                                                                                                      | -                                         | Simoshi Limited |
| 15. | Simoshi Limited                            | IICS installation log sheets for the IICS distributed during the monitoring period                                                                                                                                          | -                                         | Simoshi Limited |

|     |                                      |                                                                                                                                                                                                                          |                              |                    |
|-----|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|
| 16. | Simoshi Limited and Uga stove        | IICS Quality Assurance - Control Manual v03                                                                                                                                                                              | -                            | Simoshi Limited    |
| 17. | Simoshi Limited                      | IICS Quality Assurance and quality control assessment                                                                                                                                                                    | -                            | Simoshi Limited    |
| 18. | Simoshi Limited                      | IICS maintenance sheets corresponding to the monitoring period                                                                                                                                                           | -                            | Simoshi Limited    |
| 19. | Uganda Industrial research institute | IICS material testing results by Uganda Industrial research institute                                                                                                                                                    | Dated 22/09/2020             | Simoshi Limited    |
| 20. | Simoshi Limited                      | Simoshi QA/QC Manual and maintenance manual (IICS Maintenance Manual v03)                                                                                                                                                | -                            | Simoshi Limited    |
| 21. | Simoshi Limited                      | Simoshi Monitoring Manual v02                                                                                                                                                                                            | -                            | Simoshi Limited    |
| 22. | Clean Cooking Alliance               | The Water Boiling Test, Version 4.2.3<br><a href="https://www.cleancookingalliance.org/binary-data/DOCUMENT/file/000/000/399-1.pdf">https://www.cleancookingalliance.org/binary-data/DOCUMENT/file/000/000/399-1.pdf</a> | Released on 19/03/2014       | Simoshi Limited    |
| 23. | UNFCCC                               | Approved monitoring methodology: AMS-II.G. ver. 8 - Energy efficiency measures in thermal applications of non-renewable biomass                                                                                          | -                            | Publicly Available |
| 24. | UNFCCC                               | Guidelines for Application of materiality in verifications version 2.0                                                                                                                                                   | -                            | Publicly Available |
| 25. | Simoshi Limited                      | Registered PDD                                                                                                                                                                                                           | Version 03, dated 02/02/2017 | Publicly Available |
| 26. | Carbon Check India Pvt. Ltd.         | CDM Validation Report                                                                                                                                                                                                    | Version 03, dated 03/02/2017 | Publicly Available |
| 27. | UNFCCC                               | CDM Validation and Verification Standard for project activities                                                                                                                                                          | Version 02.0                 | Publicly available |
| 28. | UNFCCC                               | CDM Project Standard for project activities                                                                                                                                                                              | Version 02.0                 | Publicly available |
| 29. | UNFCCC                               | CDM project cycle procedure for project activities                                                                                                                                                                       | Version 02.0                 | Publicly available |
| 30. | UNFCCC                               | Standard: Sampling and surveys for CDM project activities and programme of activities                                                                                                                                    | Version 8.0                  | Publicly available |
| 31. | UNFCCC                               | Guidelines for sampling and surveys for CDM project activities and programme of activities                                                                                                                               | Version 4.0                  | Publicly available |
| 32. | UNFCCC                               | CDM-MR-FORM - Monitoring report form for CDM project activity, Version 07.0:<br><a href="https://cdm.unfccc.int/Reference/PDDs_Forms/index.html">https://cdm.unfccc.int/Reference/PDDs_Forms/index.html</a>              | -                            | Publicly available |
| 33. | UNFCCC                               | Glossary "CDM terms"                                                                                                                                                                                                     | Version 10                   | Publicly available |
| 34. | UNFCCC                               | SSG WG to Request for Clarification SSC_725: Clarification on efficiency testing for institutional improved cookstoves of different sauce pan capacities under AMS-II.G.                                                 | -                            | Publicly available |
| 35. | UNFCCC                               | SSG WG to Request for Clarification SSC_726: Clarification on the requirements to use simplified approach to test stove efficiency under AMS-II.G.                                                                       | -                            | Publicly available |
| 36. | UNFCCC                               | SSG WG to Request for Clarification SSC_727: Clarification on the test method to demonstrate above 20% stove efficiency under AMS-II.G.                                                                                  | -                            | Publicly available |
| 37. | UNFCCC                               | Standardized Baseline: ASB0016 'Institutional Cook Stoves in Uganda', Version 01.0<br><br>And approval history of the Standardized baseline:                                                                             | -                            | Publicly available |

|     |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                      |
|-----|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
|     |                                                   | <a href="https://cdm.unfccc.int/methodologies/standard_base/2015/sb63.html">https://cdm.unfccc.int/methodologies/standard_base/2015/sb63.html</a>                                                                                                                                                                                                                                                                                                                                                  |   |                      |
|     |                                                   | <a href="https://cdm.unfccc.int/methodologies/standard_base/2015/sb28.html">https://cdm.unfccc.int/methodologies/standard_base/2015/sb28.html</a>                                                                                                                                                                                                                                                                                                                                                  |   |                      |
| 38. | UNFCCC                                            | Sample size calculator                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | Publically available |
| 39. | Simoshi Limited                                   | CV of the Ms. Virginia Echavarria performed WBT testing.                                                                                                                                                                                                                                                                                                                                                                                                                                           | - | Simoshi Limited      |
| 40. | Simoshi Limited                                   | International Workshop Agreement IWA 11 was approved at a workshop organized by the Partnership for Clean Indoor Air (PCIA) and the Global Alliance for Clean Cookstoves, in association with the American National Standards Institute (ANSI), and held in The Hague, Netherlands, in February 2012.<br>Workshop contributors: Ms. Virginia Echavarria<br><a href="https://www.iso.org/obp/ui/fr/#iso:std:iso:iwa:11:ed-1:v1:en">https://www.iso.org/obp/ui/fr/#iso:std:iso:iwa:11:ed-1:v1:en</a> | - | Simoshi Limited      |
| 41. | Ministry of Education and Sports, Kampala, Uganda | <a href="https://twitter.com/Educ_SportsUg/status/1240944249899712513">https://twitter.com/Educ_SportsUg/status/1240944249899712513</a>                                                                                                                                                                                                                                                                                                                                                            | - | Simoshi Limited      |

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

**Table 1. Remaining FAR from validation and/or previous verifications**

This is 2<sup>nd</sup> periodic verification of the project activity. There is no remaining FAR from Validation or 1<sup>st</sup> verification.

| FAR ID                                               | xx | Section no. | Date: DD/MM/YYYY        |
|------------------------------------------------------|----|-------------|-------------------------|
| <b>Description of FAR</b>                            |    |             |                         |
|                                                      |    |             |                         |
| <b>Project participant response</b>                  |    |             | <b>Date: DD/MM/YYYY</b> |
|                                                      |    |             |                         |
| <b>Documentation provided by project participant</b> |    |             |                         |
|                                                      |    |             |                         |
| <b>DOE assessment</b>                                |    |             | <b>Date: DD/MM/YYYY</b> |
|                                                      |    |             |                         |

**Table 2. CL from this verification**

| CL ID                                                                                                                                                                                                                                                                                                               | 01 | Section no. | E.6.2 | Date: 21/11/2020 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-------|------------------|
| <b>Description of CL</b>                                                                                                                                                                                                                                                                                            |    |             |       |                  |
| Under the monitoring parameter " $\eta_{new,i,j}$ " in the section D.2 of the hosted MR /01/:                                                                                                                                                                                                                       |    |             |       |                  |
| 1. Under the heading "Monitoring equipment": The mentioned Digital thermometer serial no i.e. SL-DTH01 is inconsistent with the serial no. mentioned under photograph /14/ and the calibration certificate /06/ i.e. SL-TH01.                                                                                       |    |             |       |                  |
| 2. Under the heading "Monitoring equipment": For the monitoring equipment Moisture meter, the mentioned calibration date i.e. 14/09/2020 is inconsistent with the date mentioned under calibration certificate /06/ i.e. 17/09/2020.                                                                                |    |             |       |                  |
| 3. The monitoring frequency is mentioned as annually. Last WBT test was done in May 2019 (during last monitoring period i.e. 01/03/2017 – 31/05/2019) and the latest WBT was done in September 2020 (during this monitoring period). PP need to clarify how the requirement "Annual monitoring" has been fulfilled. |    |             |       |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>Date:</b> 30/11/2020 |
| <p>1. PP has corrected the Digital thermometer serial number in the Monitoring Report to ensure it is consistent with the number shown in the calibration certificate and the picture.</p> <p>2. PP has corrected the calibration date of the Moisture meter in the Monitoring Report to ensure it is consistent with the date mentioned under the calibration certificate.</p> <p>3. PP acknowledges that the performed annual WBT delayed some few months. Nevertheless PP has conducted the WBT once a year and the thermal efficiency result has shown that the efficiency has decreased, therefore using the conservative result for the ER calculations.</p>                                                                                                                                                 |  |                         |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                         |
| Revised Monitoring Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                         |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>Date:</b> 01/12/2020 |
| <p>1. Correction has been done in the revised MR /02/ and found consistent with photograph /14/ and the calibration certificate /06. Hence this part of CL is closed.</p> <p>2. Correction has been done in the revised MR /02/ and found consistent with the calibration certificate /06/. Hence this part of CL is closed.</p> <p>3. The justification provided by the PP is convincing. Last WBT was done in May 2019 and latest WBT was done in September 2020, hence there is delay by few months. Since the efficiency decrease over time, hence delaying the efficiency test will give less efficiency which is conservative for the emission reduction calculation as the latest efficiency test result (September 2020) has been applied for this monitoring period. Hence this part of CL is closed.</p> |  |                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                    |       |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-------|-------------------------|
| <b>CL ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 02 | <b>Section no.</b> | E.6.2 | <b>Date:</b> 21/11/2020 |
| <b>Description of CL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                    |       |                         |
| For the monitoring parameters " $\mu_y$ and $U_{y,inst}$ " in the section D.2 of the hosted MR /01/:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                    |       |                         |
| <p>1. Under the heading "Measuring/reading/recording frequency" it is mentioned quarterly. PP need to clarify whether the quarterly frequency was maintained during this monitoring period as the same could not be verified from the ER calculation sheet.</p> <p>2. Under heading "Values(s) of monitored parameter", the value is mentioned as 1. PP need to clarify the source of the data as the same could not be verified from the ER calculation sheet.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                    |       |                         |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                    |       | <b>Date:</b> 30/11/2020 |
| <p>1. PP hereby confirms that the survey "Kitchen Information Update" was conducted four times for each school, maintaining the quarterly frequency, although this current monitoring period is comprised of ten months from 01/06/2019 and until the 19/03/2020. Nevertheless each school was visited four times to ensure that (i) all IICS are in use, (ii) the condition of the IICS and whether they need maintenance/repair, and (iii) no traditional stoves are seen in use. All surveys have been submitted to the DOE. A new tab was included "Kitchen Information Update" in the ER Calculation Spreadsheet, which includes the dates when the survey was conducted for each school.</p> <p>2. PP quarterly conducts the "Kitchen Information Update" survey to confirm that the IICS are in use, and whether any baseline stoves are still found in use. Under the signed Sales Agreements with each school, it is clearly described under the Terms &amp; Conditions that the school participating under the Project Activity is not allowed to use any other IICS than those approved under the Project Design Document. Therefore the value 1 of the monitored parameter assumes that all IICS are in use and no baseline stoves are operational. This information is quarterly monitored and confirmed, and if the school does not comply, it is automatically excluded from the Project Activity.</p> |    |                    |       |                         |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                    |       |                         |
| Kitchen Information Update Surveys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                    |       |                         |
| Revised Simoshi CER Calculation_verification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                    |       |                         |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                    |       | <b>Date:</b> 01/12/2020 |
| <p>1. Verification team has checked all the survey (i.e. "Kitchen Information Update") dates for this monitoring period under the Tab "Kitchen Information Update" of ER calculation sheet /04/ and found consistent with the supportive document /12/. Quarterly frequency has been maintained most of the times except few delays for some schools. Since the project IICS were always found in use and baseline devices were never found in use, hence these minor delays do not have any impact on the emission reduction calculation. Hence this part of CL is closed.</p> <p>2. The justification provided by the PP seems acceptable. Verification team has verified all the "Kitchen Information Update" /12/ for this monitoring period and found that project IICS were always found in use (for the monitoring parameter <math>U_{y,inst}</math>) and baseline devices were never found in use (for the monitoring parameter <math>\mu_y</math>), hence the selected value of 1 is accepted for both the monitoring parameters. Hence this part of CL is closed.</p>                                                                                                                                                                                                                                                                                                                                       |    |                    |       |                         |

|              |    |                    |       |                         |
|--------------|----|--------------------|-------|-------------------------|
| <b>CL ID</b> | 03 | <b>Section no.</b> | E.6.2 | <b>Date:</b> 21/11/2020 |
|--------------|----|--------------------|-------|-------------------------|

| Description of CL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| For the monitoring parameter " $N_{y,inst}$ " in the section D.2 of the hosted MR /01/:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| The monitoring frequency has been mentioned as "Three times a year". PP need to clarify how the same is maintained during this monitoring period as the last monitoring was around October 2019 and the latest monitoring was in October 2020. Also how the monitoring done in October 2020 is relevant for the current monitoring period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Project participant response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date: 30/11/2020 |
| Because of COVID-19 lockdown measures, schools were obliged to close from 20/03/2020. The school Term 1 starts at the beginning of February, and finishes at the end of April. PP collects the parameter " $N_{y,inst}$ " at the end of each term, to ensure the most accurate information is obtained at the end of each term – which includes the number of children and teachers enrolled, and the amount of firewood consumed during that term. Therefore PP was not able to conduct the survey at the end of April. Nevertheless the PP did conduct the survey in October as soon as schools were allowed to open again, and although the date for each survey is dated October 2020, the data collected corresponds to the number of children and teachers enrolled during Term 1 until the schools closed on 20/03/2020. The frequency three times a year was maintained. |                  |
| Documentation provided by project participant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| School Term Update Surveys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| DOE assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date: 01/12/2020 |
| The justification provided by PP seems acceptable. It was also confirmed during the remote audit of the selected samples. Verification team has verified all the School term update sheets /11/ and confirm that the Monitoring frequency was maintained. Hence this CL is closed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |

Table 3. CAR from this verification

| CAR ID                                                                                                                    | 01 | Section no. | E.8.1 | Date: 21/11/2020 |
|---------------------------------------------------------------------------------------------------------------------------|----|-------------|-------|------------------|
| Description of CAR                                                                                                        |    |             |       |                  |
| Under section E.1 of the hosted MR /01/, two different values are mentioned for " <i>By ,savings ,i</i> " for day school. |    |             |       |                  |
| Project participant response                                                                                              |    |             |       | Date: 30/11/2020 |
| PP has corrected the value in the Monitoring Report accordingly.                                                          |    |             |       |                  |
| Documentation provided by project participant                                                                             |    |             |       |                  |
| Revised Monitoring Report                                                                                                 |    |             |       |                  |
| DOE assessment                                                                                                            |    |             |       | Date: 01/12/2020 |
| Corrections have been done in the revised MR /02/ and found consistent with the ER sheet /04/. Hence this CAR is closed.  |    |             |       |                  |

| CAR ID                                                                                                                                                                                                                                                                                                                                           | 02 | Section no. | E.6.2 | Date: 21/11/2020 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-------|------------------|
| Description of CAR                                                                                                                                                                                                                                                                                                                               |    |             |       |                  |
| Under the monitoring parameter "Date of commissioning of project device i" in the section D.2 of the hosted MR /01/:                                                                                                                                                                                                                             |    |             |       |                  |
| 1. The values under the heading "Value(s) of monitored parameter" are missing.                                                                                                                                                                                                                                                                   |    |             |       |                  |
| Project participant response                                                                                                                                                                                                                                                                                                                     |    |             |       | Date: 30/11/2020 |
| The "Date of commissioning of each project device" for each school is indicated in ER Calculation Spreadsheet, under the tab "ER Calculations" column D and under the "IICS serial numbers" tab on column E.                                                                                                                                     |    |             |       |                  |
| Documentation provided by project participant                                                                                                                                                                                                                                                                                                    |    |             |       |                  |
| Revised Simoshi CER Calculation verification                                                                                                                                                                                                                                                                                                     |    |             |       |                  |
| DOE assessment                                                                                                                                                                                                                                                                                                                                   |    |             |       | Date: 01/12/2020 |
| Corrections have been done in the revised MR /02/ and found OK. The corrections are consistent with the ER sheet /04/. Verification team has checked all the commissioning dates of the IICS (mentioned under tab E of tab "IICS serial numbers" of ER sheet /04/) with the sales agreement /10/ and found consistent. Hence this CAR is closed. |    |             |       |                  |

| CAR ID             | 03 | Section no. | E.8.1 | Date: 21/11/2020 |
|--------------------|----|-------------|-------|------------------|
| Description of CAR |    |             |       |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Under the ER sheet /03/:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| 1. Under the tab “ER Calculations”, the mentioned IICS Commissioning Dates are inconsistent with the sales agreements /10/.<br>2. Under the tab “ER Calculations”, the 2020 calculation of “tfraction,i” for the school “Hoys Secondary School” is not correct as it is divided by 265 instead of 365.<br>3. Under the tab “Ny Term Information Update”, there are no. of errors in the formula to calculate the population for each school.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Date:</b> 30/11/2020 |
| 1. PP has adjusted the IICS commissioning dates accordingly in the tab “ER Calculations” spreadsheet. The closing date of the monitoring period has been adjusted to 19/03/2020 because the schools were obliged to close from 20/03/20.<br>2. PP has adjusted the “ER Calculations tab” accordingly for Hoys Secondary School.<br>3. PP has adjusted the formula accordingly under the tab “Ny Term Information Update”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Revised Simoshi_CER Calculation_verification<br>Ministry of Education and Sports circular number 23 -<br><a href="https://twitter.com/Educ_SportsUg/status/1240944249899712513">https://twitter.com/Educ_SportsUg/status/1240944249899712513</a><br>Revised Monitoring Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Date:</b> 01/12/2020 |
| 1. Corrections have been done in the revised ER sheet /04/ and found OK. Verification team has checked the commissioning dates of all the IICS (mentioned under tab E of tab “IICS serial numbers” of ER sheet /04/) with the sales agreement /10/ and found consistent. Further all the Education Institutions in Uganda were closed from 20/03/2020 as ordered by Ministry of Education and Sports, Kampala, Uganda /41/, hence PP has limited the monitoring period till 19/03/2020 which was 31/03/2020 earlier. Changing end date of the monitoring period is acceptable as per the requirement of EB 41, Para 78 “78. <i>The Board decided to allow DOEs to request a change in the dates of a monitoring period undergoing verification, provided the change is the result of the corrective action request raised by the DOE during the verification process.</i> ”. Now the revised monitoring period to be verified is 01/06/2019 – 19/03/2020 (including both the days).<br><br>Further now the ex-ante estimates have been correctly calculated for the revised chosen monitoring period (01/06/2019 – 19/03/2020 (including both the days)) as verified from revised MR /02/. Hence this part of CAR is closed.<br>2. Correction has been done in the revised ER sheet /04/ and found OK. Hence this part of CAR is closed.<br>3. Correction has been done in the revised ER sheet /04/ and found OK. Verification team has checked all the calculations under the tab “Ny Term Information Update” of ER calculation sheet /04/ and found correct. Hence this part of CAR is closed. |                         |

Table 4. FAR from this verification

No FAR raised during this (2<sup>nd</sup>) verification

|                                                      |    |                    |  |                         |
|------------------------------------------------------|----|--------------------|--|-------------------------|
| <b>FAR ID</b>                                        | xx | <b>Section No.</b> |  | <b>Date:</b> DD/MM/YYYY |
| <b>Description of FAR</b>                            |    |                    |  |                         |
|                                                      |    |                    |  |                         |
| <b>Project participant response</b>                  |    |                    |  | <b>Date:</b> DD/MM/YYYY |
|                                                      |    |                    |  |                         |
| <b>Documentation provided by project participant</b> |    |                    |  |                         |
|                                                      |    |                    |  |                         |
| <b>DOE assessment</b>                                |    |                    |  | <b>Date:</b> DD/MM/YYYY |
|                                                      |    |                    |  |                         |

## Document information

| <i>Version</i>                                                                                                                             | <i>Date</i>     | <i>Description</i>                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03.0                                                                                                                                       | 31 May 2019     | Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);</li> <li>• Make structural and editorial improvements.</li> </ul> |
| 02.1                                                                                                                                       | 11 January 2018 | Editorial revision to correct the numbering of appendices in the instructions.                                                                                                                                                                             |
| 02.0                                                                                                                                       | 31 October 2017 | Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).                                                                                                                           |
| 01.0                                                                                                                                       | 23 March 2015   | Initial publication.                                                                                                                                                                                                                                       |
| Decision Class: Regulatory<br>Document Type: Form<br>Business Function: Issuance<br>Keywords: project activities, verifying and certifying |                 |                                                                                                                                                                                                                                                            |