

**GOLD STANDARD FOR THE GLOBAL GOALS (GS4GG)  
REPORT  
-  
VPA DESIGN CERTIFICATION (VALIDATION)**



**Project/ VPA Title:** *GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002*  
**GS project ID:** *11440*  
**Internal ID:** *BELL\_CDM\_2021\_KEN KOKO Ethanol ICS PoA\_GS\_VAL*  
**Customer:** *KOKO Networks Limited*  
**Date:** *27/09/2022*  
**Revision:** *03*

| SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                                |                     |
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| Reference No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date (first version)                                         | Version No.                                                                    | Date (last version) |
| BELL_CDM_2021_ KEN KOKO<br>Ethanol ICS VPA_GS_VAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 01/06/2022                                                   | 03                                                                             | 27/09/2022          |
| Client                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | KOKO Networks Limited                                        |                                                                                |                     |
| Project/VPA Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002 |                                                                                |                     |
| Project Developer/CME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KOKO Networks Limited                                        |                                                                                |                     |
| Project Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kenya                                                        |                                                                                |                     |
| Contact Person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Greg Murray                                                  |                                                                                |                     |
| GS4GG Version: 1.2.<br>GS4GG Activity Requirements: Programme Of Activity Requirements, Version 1.2<br>Community Services Activity, Version 1.2<br>Applied Methodology Version: AMS I.E. V-0.9<br>Current Methodology Version: AMS I.E. V-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              | GS4GG Sectoral Scope: 2<br>UNFCCC CDM Sectoral Scope: 1<br>Technical Area: 1.1 |                     |
| First VPA-DD Version: 02<br>Date: 18/01/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              | Final VPA-DD Version: 05<br>Date: 25/09/2022                                   |                     |
| Estimated outcomes of each SDG:<br><b>SDG 3:</b><br>Number of KOKO Users/households experiencing reduction in the indoor air pollution in their kitchen: 149,250 users<br><b>SDG 5:</b><br>Number of women in managerial positions: 15 women employees<br><b>SDG 7:</b><br>Number of Households using KOKO Cookers: 199,000<br><b>SDG 13:</b><br>Emission Reductions: 1,081,893 tons-CO <sub>2</sub> /year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                                                |                     |
| Selected Sustainable Development Goals (SDGs): SDG 3; SDG 5; SDG 7; SDG 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                                                |                     |
| Design Certification Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |                                                                                |                     |
| LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by KOKO Networks Limited (CME) to perform the "GS VER" validation of the CDM GS VPA titled "GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002" (GS ID-11440) applying the methodology AMS I.E., version 09.<br>The purpose and goal of the VPA is to reduce emissions from household cooking stoves. The use of non-renewable fuel such as wood and charcoal for cooking, leads to emission of greenhouses gases, deforestation, and poor indoor climate. The programme will provide clean renewable fuel for cooking and thus eliminate/reduce the need for non-renewable fuel consumption for cooking. This is done by providing highly efficient stoves (Improved Cook Stoves) that are using denatured alcohol (bioethanol) which is a renewable fuel. The income generated from the carbon credits will be used to finance the production of new stoves, distribution and/or aftersales support to ensure that the project remain operational. |                                                              |                                                                                |                     |

## SUMMARY

The implementer of the VPA is KOKO Networks Limited, which is also the CME of the PoA and has the exclusive rights to claim carbon credits from this VPA.

The scope of the validation is defined as an independent and objective review of the Voluntary Project Activity (VPA) design document, the PoA baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against the GS4GG Principle & Requirements, version 1.2.

A desk review and a site visit (remotely) have been conducted to verify the data submitted in the GS4GG PoA-DD and VPA-DD. Applus+ Certification confirms the following have been reviewed:

- The PoA-DD (GS-10884), VPA-DD (GS-11440) and corresponding Transition Request Forms (TRF) /01/, /02/
- GS4GG guideline and related Annexures, specifically Annex B – “Requirements & Procedure to Transition Projects from Other Standards to Gold Standard for the Global Goals” /19.1/
- The applied monitoring methodology, AM-I.E. Version 09. /03/
- Validation Report of the CDM PoA (10476) and CPA-0002 (10476-P1-0002-CP1) /40/
- Latest Monitoring Report and corresponding Verification Report for CPA-0002 /40/
- Deviation No. 247 approved by Gold Standard for GS10885 and GS11440 /44/
- Relevant decisions, clarifications, and guidance from the CMP and the CDM Executive Board.
- All information and references relevant to the programme of activity resulting in estimated emission reductions.

The scope of the validation is defined as an independent and objective review of the VPA design document, against the Kyoto Protocol requirements, UNFCCC rules, applicable CDM requirements and requirement of Gold Standard. The validation report is finalized based on the assessment of the Gold Standard GS4GG VPA-DD and applying standard auditing techniques including but not limited to document reviews, follow up actions (e.g., remote site visit, telephone or e-mail interviews) and also the review of the applicable approved methodology and underlying formulae and calculations.

The report and the annexed validation checklist describe a total of 8 findings which include:

- 04 Corrective Action Requests (CARs);
- 02 Clarification Requests (CLs/CRs);
- 02 Forward Action Requests (FARs). (FAR raised during preliminary review is closed)

The PP has responded these findings by modifying the Gold Standard VPA-DD and providing adequate additional explanations and evidence. Applus+ Certification confirms that all the findings have been “closed out” before submitting the request for registration to GS board.

As a summary of the validation, the review of the Gold Standard GS4GG VPA-DD and the subsequent follow-up interviews have provided Applus+ Certification with sufficient evidence for the determination of the VPA fulfillment with all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and requirement of Gold Standard. Therefore, Applus+ Certification recommends the project for registration by the GS Registry as GS VER VPA.

## ASSESSMENT TEAM

| Team Members                     | Type of Resource <sup>1</sup>                                                                  | Organization (for OEs) |
|----------------------------------|------------------------------------------------------------------------------------------------|------------------------|
| Lead Auditor: Ravi Kant Soni     | <input type="checkbox"/> IR <input checked="" type="checkbox"/> EI <input type="checkbox"/> OE | Not applicable         |
| Auditor: n/a                     | <input type="checkbox"/> IR <input type="checkbox"/> EI <input type="checkbox"/> OE            | Not applicable         |
| Technical Expert: Ravi Kant Soni | <input type="checkbox"/> IR <input checked="" type="checkbox"/> EI <input type="checkbox"/> OE | Not applicable         |

<sup>1</sup> IR (Internal Resource); EI (External Individual); OE (Outsourced Entity)

| ASSESSMENT TEAM                       |                                                                                                |                        |
|---------------------------------------|------------------------------------------------------------------------------------------------|------------------------|
| Team Members                          | Type of Resource <sup>1</sup>                                                                  | Organization (for OEs) |
| Technical Reviewer: Mr. Miguel Cortés | <input type="checkbox"/> IR <input checked="" type="checkbox"/> EI <input type="checkbox"/> OE | Not applicable         |

| ABBREVIATIONS                 |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| <b>AMS</b>                    | Approved Methodology Small Scale                                                      |
| <b>Applus+ LGAI / Applus+</b> | LGAI Technological Center, S.A. (Applus+ Certification)                               |
| <b>BM</b>                     | Build Margin                                                                          |
| <b>CAR</b>                    | Corrective Action Request                                                             |
| <b>CDM</b>                    | Clean Development Mechanism                                                           |
| <b>CDM EB</b>                 | CDM Executive Board                                                                   |
| <b>CER</b>                    | Certified Emission Reduction                                                          |
| <b>CL / CR</b>                | Clarification Request                                                                 |
| <b>CM</b>                     | Combined Margin                                                                       |
| <b>CMP</b>                    | Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol |
| <b>DNA</b>                    | Designated National Authority                                                         |
| <b>DOE</b>                    | Designated Operational Entity                                                         |
| <b>EF</b>                     | Emission Factor                                                                       |
| <b>EIA</b>                    | Environmental Impact Assessment                                                       |
| <b>ER</b>                     | Emission Reduction                                                                    |
| <b>FAR</b>                    | Forward Action Request                                                                |
| <b>GHG</b>                    | Greenhouse Gas(es)                                                                    |
| <b>GS4GG (or GS)</b>          | Gold Standard for Global Goals                                                        |
| <b>IPCC</b>                   | Intergovernmental Panel on Climate Change                                             |
| <b>KP</b>                     | Kyoto Protocol                                                                        |
| <b>MP</b>                     | Monitoring Plan                                                                       |
| <b>NGO</b>                    | Non-Governmental Organization                                                         |
| <b>SDG</b>                    | Sustainable Development Goal                                                          |
| <b>TAC</b>                    | Gold Standard Technical Advisory Committee                                            |
| <b>OM</b>                     | Operational Margin                                                                    |
| <b>PP</b>                     | Project Participant                                                                   |
| <b>PS</b>                     | Project Standard                                                                      |
| <b>UNFCCC</b>                 | United Nations Framework Convention for Climate Change                                |
| <b>VVB</b>                    | Validation and Verification Body                                                      |
| <b>VVS</b>                    | Validation and Verification Standard                                                  |

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## **Appendix:**

**Appendix 1:** Corrective Action Request / Clarification Request / Forward Action Request resolution table.

**Appendix 2:** Audit Team CVs.

**Appendix 3:** GS Safeguarding principles and Requirements.

## 1. INTRODUCTION

### Description of VPA:

The VPA02 titled "GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002" (GS ID-11440) located in Kenya aims to disseminate bioethanol based cookstove that enables switch from a non-renewable biomass to a renewable biomass fuel by the end users, which results in reduction of GHG emissions.

The CME of the VPA is KOKO Networks Limited. The KOKO team members were interviewed by the validation team through remote site visit to understand the framework and check the operational status of the VPA.

The proposed VPA is already registered with CDM (Ref: 10476-P1-0002-CP1) and has undergone issuance of CERs for monitoring period 01/01/2020-to-31/12/2020. Therefore, the validation team reviewed the approved PoA validation report and the verification report to confirm the PoA framework and the operation status.

The stove kit to be disseminated under the VPA consists of a two-burner ethanol stove and it is equipped with a 'smart' canister equipped with an NFC chip. These cannisters avoid misuse of the fuel as well as helps in tracking of household-level fuel purchases. KOKO has installed several cloud-connected KOKO fuel ATMs at local corner shops, which has increased the accessibility and affordability of Ethanol as a fuel. The fuel can only be bought/refilled in a smart cannisters received with the KOKO stove.

The geographical boundaries will cover entire country Kenya. The co-ordinates of the location of the site were appropriately included in the VPA-DD/02/. The location has also been confirmed through website <https://www.google.co.in/maps>. The validation team confirmed during remote site visit that the VPA has become operational in Nairobi and Mombasa County, Kenya.

The PoA follows the host country rules and regulations.

The VPA02 is in Kenya (Nairobi and Mombasa County). The VPA-DD includes further details in the location of the project activity:

|                              |                          |
|------------------------------|--------------------------|
| Southern-most point of Kenya | 4°38'47.4"S 39°12'31.6"E |
| Western-most point of Kenya  | 0°06'58.9"N 33°57'35.3"E |
| Eastern-most point of Kenya  | 3°55'51.6"N 41°51'59.9"E |
| Northern-most point of Kenya | 4°28'42.5"N 35°52'31.8"E |

The co-ordinates of the location of the site were appropriately included in the VPA-DD/02/. The location has also been confirmed through website <https://www.google.co.in/maps>.

The technical description of the voluntary project activity has been validated by assessing the manufacture specification evidence /10/ and the actual photographs/09/. All the information was correctly mentioned in the VPA-DD /02/.

The summary of the proposed VPA and the technology involved are described in the VPA-DD /02/ with sufficient details and clarity. The accuracy of the project description was determined based on the remote site visit as part of validation audit, review of supporting documents (as mentioned in section 4 of this report), and interaction (remote) with the key personnel as listed under section 2.3 of the validation report.

The baseline scenarios have been found in accordance with the applied methodologies AMS I.E. - "Switch from non-renewable biomass for thermal applications by the user", Version 09 and version 12/03/.

The start date of the VPA has been selected in accordance to section 3.4.3 of GS4GG Principles & Requirements and 10 years crediting period which can be renewed after 5 years, with the operational lifetime of the product as more than 5 years.

The sustainable development goals and their outcome is transparently discussed under section A.1 of the VPA-DD/02/. The assessment team has checked and reviewed the VPA-DD with supportive evidence and found the details to be correct.

The validation team looked out for the signs of any ODA that project might have received but did not find anything in this regard. Therefore, it can be confirmed that proposed PoA did not receive any ODA. Additionally, a declaration /13/ in this regard was obtained from CME.

The assessment team confirmed the conformance of the VPA with the following applicable requirements:

- Annex B: "Requirements & Procedure to Transition Projects from Other Standards to Gold Standard for the Global Goals" of GHG Emissions Reduction & Sequestration Product Requirements
- GS4GG Principles & Requirements, Version 1.2
- Community Services Activity Requirements, Version 1.2
- Programme of Activity Requirements, Version 1.2

**General Eligibility Criteria as per Annex B: "Requirements & Procedure to Transition Projects from Other Standards to Gold Standard for the Global Goals" of GHG Emissions Reduction & Sequestration Product Requirements, Version 1.2**

| Eligibility Requirements                                                                             | Justification from PP                                                                                                                                                                                                                                                                                           | Validation Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The CPA must have a crediting period start date with CDM/other standard on or after 01 January 2016. | The CPA was included in the CDM PoA on 28/08/2020 which is after 01 January 2016.                                                                                                                                                                                                                               | The CPA inclusion date was checked from the CDM project view page and found correct.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Is the CPA eligible project type under Gold Standard for the Global Goals?                           | The VPA02 is an eligible project type under Community Services Activities projects. The VPA is an "end-use energy efficiency" project, which is an eligible project type under section 3.1.1(b) of the Community Services Activity Requirements. Please refer to section A.3 of the GS VPA-DD for more details. | The project design and technology were checked by the assessment team by reviewing the cookstove specifications, customer database and by interviewing the customers on sample basis. It was confirmed that the technology will be distributed to communities, particularly households and will reduce the quantity of non-renewable biomass (fuelwood and charcoal) usage in the households. Hence, it was confirmed that the project design meets the requirements of "End-Use Energy Efficiency" project type. |

|                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Does the CPA conform to the relevant Activity Requirements (CSA/RE)?                                                           | The VPA02 is an 'end-use energy efficiency' projects which conform to the relevant requirements of the Community Services Activity Requirements. Please refer section A.3. of the GS VPA-DD for more details.                                                                                                                                                                                            | As discussed above, the assessment team checked the conformance of the VPA with the Community Services Activity Requirements Version 1.2.                       |
| Does the CPA apply an eligible GS methodology?                                                                                 | The CDM-CPA01 has applies the CDM approved methodology AMS-I.E 'Switch from non-renewable biomass for thermal application by the user' version 09.0. The applied methodology is an eligible GS methodology as confirmed from the GS methodological tool "Gold Standard Eligible Impact Quantification Methodologies". Hence, the same methodology is applied for the corresponding GS VER certification. | The GS methodological tool "Gold Standard Eligible Impact Quantification Methodologies" was checked and confirmed that AMS-I.E., is an eligible GS methodology. |
| Does the CPA apply the version of the methodology and applicable tools applied for CDM/other standard registration or renewal? | In accordance with Annex B of GHG Product Requirements, the applicable methodology version for GS-VER registration was the same as applied at the time of CDM CPA inclusion, i.e. Version 09. The GS VPA02 has applied the same.                                                                                                                                                                         | The application of the methodology Version for GS-VPA02 is in accordance with section 4.2.1 of Annex B of GHG Product Requirements.                             |

**The eligibility under section 3.1.1 of GS4GG Principles & Requirements version 1.2 and Community Services Activity Requirements version 1.2 /17/ is as follows:**

| Eligibility Criteria                                                                                                                                                                                                     | Justification from PP                                                                                                                                                                                                                                                           | Validation assessment                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1.1 (a) Types of Project<br>Eligible projects shall include physical action/implementation on the ground. Pre-identified eligible project types are identified in the Eligibility Principles and Requirements section. | The PoA involves implementation on the ground i.e. distribution of bio-ethanol stoves which comes under section 3.1.1 (b) of the approved Gold Standard Activity Requirement - Community Services Activity Requirements Version 1.2 Published October 2019. Therefore, there is | The assessment team has reviewed the VPA-DD and interviewed the CME during remote audit, it is confirmed that the VPA involve distribution of bioethanol stoves.<br><br>Hence, the VPA meets the eligibility criteria of section 3.1.1 of GS4GG Principles & Requirements version 1.2. |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | approved Gold Standard Activity Requirements and thus the project is automatically eligible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.1.1 (b) Location of Project<br>Projects may be in any part of the world.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PoA is located in Kenya.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VPA is in Kenya as confirmed through the VPA database/sales records and through remote interview of the CME. Hence, the VPA meets the eligibility criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.1.1 (c) Project Area, Project Boundary and Scale<br>The Project Area and Project Boundary shall be defined. Projects may be developed at any scale although certain rules, requirements and limitations may apply under specific Activity Requirements, Impact Quantification Methodologies and Products Requirements. In order to avoid double counting the Project shall not be included in any other voluntary or compliance standards programme unless approved by Gold Standard (for example through dual certification). Also, if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature, the project shall demonstrate that there is no double counting of impacts at design and performance certification (for example use of similar technology or practices through which the potential | Physical/ Geographical boundary of the VPA is in Kenya. The same has been defined in detail in section A.2 of the VPA DD.<br><br>The scale of the project defines as per CDM guidance and the compliance of scale which meets the requirement of Annex B Para 5.1.2. and 5.1.3. GHG Emission Reductions and Sequestration Product Requirements<br><br>The ICS will bear a unique serial number and project database will record user location details. Unique serial number and user location details will identify the project devices individually and will separate it from other programs if any in the present or in the future. | The Project Area, Project Boundary and Scale of each VPA has been checked at VPA level.<br><br>Since this is a transition project, the applicable guidance for determining scale is Annex B Para 5.1.2. and 5.1.3. GHG Emission Reductions and Sequestration Product Requirements. As per the referred guidance, the scale of the project as defined during CDM registration shall be followed for the transition process. Hence, the justification was accepted.<br><br>Additionally, the project has sought exemption from the requirement of demonstrating compliance to small-scale threshold, which was approved by the Gold Standard on 27 <sup>th</sup> April 2022 as DEV_247.<br><br>The ICS (bio-ethanol stove) bearing a unique serial number and user location details are recorded in the project database to avoid double counting. This is verified through the baseline survey report and baseline database submitted by the CME. Hence, the VPA meets the eligibility criteria |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arises for double counting or misestimation of impacts amongst projects).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>3.1.1 (d) Host Country Requirements</p> <p>Projects shall be in compliance with applicable Host Country's legal, environmental, ecological and social regulations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Projects is in compliance with applicable Host Country's legal, environmental, ecological and social regulations.</p>                                                                                                                                                | <p>PoA follows host country (Kenya) requirements and the justification of the same was reviewed from the CDM-registered PoA-DD.</p> <p>As the VPA02 is also located in Kenya hence, the VPA meets the eligibility criteria.</p>                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>3.1.1 (e) Contact Details</p> <p>As part of the Project Documentation the Project Developer shall provide</p> <p>(i) name and</p> <p>(ii) contact details of all Project Participants; AND in case of an organisation</p> <p>(iii) the legal registration details and</p> <p>(iv) documentation by the governing jurisdiction that proves that the entity is in good standing (defined as being a legal or other appropriate entity registered in or allowed to operate within the required jurisdiction and with no evidence of insolvency or legal/criminal notices placed against it or any of its Directors). Gold Standard retains the right (at its own discretion) to refuse use of the Standard where reputational concerns are highlighted.</p> | <p>Name and Contact details of the project developer have been provided in the Appendix 2 of the VPA DD.</p> <p>Legal registration details has been provided in the Appendix 2 of the VPA DD.</p> <p>Company Registration certificate has been provided to the VVB.</p> | <p>Name and contact details of the CME have been provided in appendix 2 of the VPA-DD /01/, found to be in accordance with the registration certificate.</p> <p>The details of Local partner organizations and staff involved in the implementation of VPA02 is checked and found consistent with the PoA.</p> <p>The CME has provided the company registration certificate /35/ and found to be satisfactory.</p> <p>Declaration that no evidence of insolvency or legal/criminal notices placed against it or any of its Directors has been submitted by the CME /36/. Hence, the VPA meets the eligibility criteria.</p> |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>3.1.1 (f) Legal Ownership<br/>         Full and uncontested legal ownership of any Products that are generated under Gold Standard Certification, (for example carbon credits) shall be demonstrated. Where such ownership is transferred from project beneficiaries this must be demonstrated transparently and with full, prior and informed consent (FPIC). Note that for certain Project types there is a requirement for full and uncontested legal land title/tenure to be demonstrated. These are contained within specific Activity or Product Requirements. All projects shall immediately report to Gold Standard any land title/tenure disputes arising.</p> | <p>There is a provision in the project device purchase agreement with manufacturer that emission reductions achieved by the project technology are owned by the project developer.</p> <p>Provision in the project device sales agreement (retailer) that emission reductions achieved by the project technology are owned by the project developer.</p> <p>The CME has signed the sales agreement for end users including the provision that emission reductions achieved by the project technology are owned by the CME.</p> | <p>The legal ownership of VPA02 is confirmed through the sales agreement with the end users and confirmed the emission reductions achieved by the project technology are owned by the CME.</p> <p>Hence, the VPA meets the eligibility criteria</p>                                                                                                     |
| <p>3.1.1 (g) Other Rights<br/>         As well as legal title and ownership, the Project Developer shall also demonstrate where required uncontested legal rights and/or permissions concerning changes in use of other resources required to service the Project (for example, access rights, water rights etc.). Any known disputes or contested rights must be declared immediately to Gold Standard by the</p>                                                                                                                                                                                                                                                         | <p>There are no disputes or contested rights that have been identified in relation to rights relevant to the project activity.</p>                                                                                                                                                                                                                                                                                                                                                                                             | <p>During the remote audit, the assessment team has confirmed with the households, as well as the representatives of project developer, that there are no disputes or contested rights relevant to the project activities.</p> <p>Hence, the VPA meet the eligibility criteria of section 3.1.1 of GS4GG Principles &amp; Requirements version 1.2.</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                        |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Developer and resolved prior to further Project implementation in affected areas.                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                        |                                                                                                                                                                                                                                                                                                   |
| <p>3.1.1 (h) Official Development Assistance (ODA) Declaration</p> <p>All Project Developers applying for project activities located in a country named by the OECD Development Assistance Committee's ODA recipient list and seeking Gold Standard Certification for carbon credits shall declare the Official Development Assistance (ODA) support. The Project Developer shall follow the GHG Emissions Reduction &amp; Sequestration Product Requirements and submit the declaration at the time of Design Certification.</p> | The project developer has submitted Official Development Assistance (ODA) Declaration. | <p>The assessment team has verified the ODA declaration of the PoA and VPA /13/ and also confirmed during the remote audit interviews with the representatives of CME and hence it can be concluded that there is no diversion of ODA PoA/VPA. Hence, the VPA meets the eligibility criteria.</p> |

Applus+ Certification confirms that:

- 1) The proposed VPA is a voluntary action by the CME.
- 2) The first VPA02, part of the PoA-DD/02/ (hereinafter referred to as VPA- DD) has been prepared for the bio-ethanol stoves dissemination with UNFCCC methodology /03/ and thereof, the technology is stated in the first VPA-DD/02/ in accordance with the relevant requirements in the "CDM project standard for programmes of activities"/05/.
- 3) Since, the bioethanol stoves having better thermal efficiency, it cuts fuel expenditure, provide access to new clean technology and produces less smoke (less indoor air pollution), and thus, the VPA has social, economic and environmental benefits and contributes to sustainable development of host country.

The description in the VPA-DD/01/ includes all information in line with the guidelines provided under paragraph 32-35 of PS for PoA version 3.0, and the Gold Standard For The Global Goals Programmes of Activities Requirements ver 1.2 Published October 2019 /18/. Hence, it can be concluded that the description of the VPA in VPA-DD/02/ is accurate and complete.

### **Management system:**

The CME of the VPA is KOKO Networks Limited. The CME will either implement the CPA itself or may contract a CPA implementer for implementation of CPA. All CPAs will be centrally managed by the CME. Review of VPA-DD and interview with CME management confirmed the same.

The VPA aims to disseminate the bio-ethanol stove. The end users are informed about the product (bioethanol cookstove) through the advertisements and demonstrations of stove use at the local shops. The demonstrations are done by local KOKO agents. These agents may be the shop owners of the shops where the KOKO fuel ATMs are installed also known as KOKO points. The template for the agreement between the Agent and KOKO was checked to understand their involvement in the process/12/.

The interested end users may register themselves using the interface of KOKOpoints (fuel ATMs) installed at local shops or "myKOKO" mobile application (<https://play.google.com/store/apps/details?id=com.kokonetworks.mykoko>). The end users directly register themselves by adding their details Name, phone number, address etc. on the interface after which they receive an auto generated message to confirm their purchase request. Post registration, the stove can be purchased through KOKO ATMs (cloud-connected fuel points) or the mobile app by the end users. The fees payment can be done directly through online mobile money transfer application "M-PESA" integrated with "mySafaricom" mobile application (<https://play.google.com/store/apps/details?id=com.selfcare.safaricom>). The final product is only released for the end user when the product fees is received by KOKO. Post payment, the cookstove can be collected by the end-user from the nearest KOKOpoint by displaying the confirmation OTP received by end-user from KOKO. The date of collection is registered as the date of installation of the stove. Thus, avoiding false entries in the database for any name that does not actually possess the stove. All stoves will have a unique ID on it which will be linked to the registration details of the end-user. All the information of each buyer is automatically saved on the database. The sales database template/11/ was checked to confirm this. Thus, the database management system was found to be highly robust.

The CME contracts CPA implementers for managing VPA. The KOKO members were interviewed during the virtual site visit to confirm the roles that would be assigned to the CPA implementer.

### **Records of arrangements for training and capacity development for personnel:**

The manufacturing team, testing teams working operation labs, monitoring teams monitoring teams are trained directly by the CME. CME representatives were interviewed during the site visit to corroborate these roles. Annual training schedules/38/ were also shared by the CME to ascertain those trainings will be conducted regularly and records for the same will be maintained.

### **A procedure for technical review of inclusion of CPAs**

The internal technical review of the inclusion of CPAs would be done by the CME. CME representatives interviewed during the virtual site visit ascertained that CDM program manager will conduct technical review and submit the reports to the CEO for approval. Appropriate measures are incorporated in the process to ensure independence of the review process.

### **A procedure to avoid double counting:**

The assessment team has confirmed through onsite interviews and demonstration of end user registration shown by the CME that following factors will aid the CME to avoid double counting:

- i. The CME collects all the data for each user through digital platform connected to all users via mobile network.
- ii. A unique number is allotted to the product at the time of purchase.
- iii. The stoves installed under the project have NFC smart chips, which makes it differentiable than other project stoves/11/.

Thus, it can be ascertained that the chances of double counting are low. There is only one similar PoA (PoA 7359) in Kenya. The VPA DDs/39/ of this PoA were reviewed to identify that the cookstoves registered under the VPAs of PoA 7359 will not be having the smart chip technology. Furthermore, the stoves to be disseminated under the current PoA will also have a KOKO logo differentiating it from the other stoves. The UN website/39/ was also reviewed to confirm that the same CME does not have any other PoA or CPA already registered.

#### **Records and documentation control process for each CPA under the PoA**

Records and documentation of each VPA will be archived for two years after the end of the final crediting period or the last issuance of CERs, whichever occurs later.

#### **Measures for continuous improvements of the PoA management system**

The CME plans to conduct annual management review meeting to assess overall performance, competencies and document control process and apply any scope of improvement if identified.

#### **Conclusion:**

The review of the PoA-DD & VPA-DD, supporting documentation and subsequent follow up actions have provided Applus+ Certification with sufficient evidence to determine the fulfilment of stated criteria.

Applus+ Certification is of the opinion that the VPA "GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002"

"As described in the final VPA- DD meets all relevant requirements of GS4GG and has correctly applied the methodology AMS.I. E version 09. Therefore, the project is recommended for request for registration.

### **1.1 Objective**

The purpose of a validation is to have an independent third-party assessment of the GS4GG VPA-DD and compliance with the GS requirements as described in the Gold Standard documentation and supporting documents by the CME. Validation is part of the GS VER project cycle and will finally result in a conclusion by Applus+ Certification whether a programme of activity is valid and should be submitted for registration of a proposed project activity rests at the GS and the Parties involved.

### **1.2 Scope**

The scope of the services provided by the LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) for the VPA is to perform validation of Programme of Activity and the VPA. The scope of validation is to assess the claims and assumptions made in the VPA-DD against the GS4GG criteria, UNFCCC criteria, including but not limited to, CDM PS, CDM VVS, applied methodology and other relevant rules and requirements established for the GS project activities.

## **2. METHODOLOGY**

The validation process is undertaken by a competent validation team and involves the following:

- (i) The desk review of documents and evidence submitted by the project participant in context of GS for GG criteria along with CDM rules and guidelines issued by CDM EB,

- (ii) Undertaking/conducting remote site visit, interview, or interactions with the representative of the project participant, reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate and
- (iii) Preparing a draft validation opinion based on the auditing findings and conclusions.
- (iv) Technical review of the draft validation opinion along with other documents as appropriate by an independent competent technical review team finalization of the validation opinion (this report)
- (v) An independent technical review team reviews the validation report made by the validation team. After the final report is accepted by the technical reviewer it is then approved by Applus+ Certification which is processed further according to the GS and CDM procedures.

The GS overview documents which is referred as DVR is as below:

| Validation Checklist Table 3: Resolution of Audit Findings                                                                  |                              |                                            |                              |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|------------------------------|
| <b>Type:</b>                                                                                                                | <input type="checkbox"/> CAR | <input type="checkbox"/> CL/CR             | <input type="checkbox"/> FAR |
| <b>Number:</b>                                                                                                              |                              |                                            |                              |
| <b>Raised by:</b>                                                                                                           |                              | <b>Ref. to checklist in table 1&amp;2:</b> |                              |
| <b>Description of the audit finding</b>                                                                                     | <b>Date:</b>                 |                                            |                              |
| The description of the audit finding should be clearly included here.                                                       |                              |                                            |                              |
| <b>Project Participant's response</b>                                                                                       | <b>Date:</b>                 |                                            |                              |
| The responses given by the project participants during the communications with the validation team should be included here. |                              |                                            |                              |
| <b>Documentation provided as evidence by Project Participant</b>                                                            |                              |                                            |                              |
| The evidences provided by the project participants should be included here.                                                 |                              |                                            |                              |
| <b>Auditor's assessment comment</b>                                                                                         | <b>Date:</b>                 |                                            |                              |
| This section should include how the audit finding is assessed by the assessment team.                                       |                              |                                            |                              |

The Complete List of CAR/CL/FAR is included as Appendix 1 of this report

## 2.1 Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center, S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center, S.A. (Applus+ Certification).

The composition of audit team shall be approved by the LGAI Technological Center, S.A. (Applus+ Certification) ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

| <b>Name</b>       | <b>Role</b>                   | <b>SS Coverage</b> | <b>TA Coverage</b> | <b>Financial aspect</b> | <b>Host country experience</b> |
|-------------------|-------------------------------|--------------------|--------------------|-------------------------|--------------------------------|
| Ravi Kant Soni    | Lead Auditor/Technical expert | 1                  | 1.1                | NA                      | Y                              |
| Mr. Miguel Cortés | Technical reviewer            | 1                  | 1.1                | NA                      | N                              |

The complete list of CVs is included as Appendix 2 of this report.

## 2.2 Document review

The validation of the VPA02 is performed primarily as a document review of the VPA design document version 02 dated 18/01/2022, version 03, dated 24/05/2022, version 04, dated 01/06/2022 and the final version 05, dated 25/09/2022. The cross checks between information provided in the PoA-DD, VPA-DD and information from sources other than those used, if available, the validation team's sectoral or local expertise and, if necessary, independent background investigations.

The complete list of documents/evidence assessed by validation team is included under section 4 of this report.

## 2.3 Follow up Interviews

No site visit was conducted for this validation due to outbreak of global pandemic Covid-19 and increased risk of exposure and contraction due to travel. However, following section-4 of the GS4GG's Rule Update- "COVID-19: INTERIM MEASURES"/20/, the assessment team opted and applied the alternative means of conducting the remote audit.

As per para 4.1.1 (b) of COVID 19 Interim Measures/20/, Validation team has used the following alternative means for its assessment and to justify that, they are sufficient for the

purpose of validation of the PoA. Along with desk review, assessment team has conducted remote audit interview corresponding to the PoA as follows:

- Desk review of the PoA-DD & VPA-DD (all versions) and the all-applicable country legal requirement and supportive evidences have been checked by the assessment team.
- Video conferencing with representatives of the CME and stakeholders in order to check the implementation, current situation, management system of the PoA, programme technology, location, training provided, start date etc.
- Photographic evidences of the ICSs , Installed ICSs with Unique Serial IDs/09/, baseline survey reports /08/.
- Information's congregated during the remote audit are further verified through the PoADD and VPA-DD and other supporting documents.

List of CME personnel interviewed during remote site visit on 13/08/2021:

| Interviewed Personnel | Functions                                          | Organization          | Subject                                                                                                                                                   |
|-----------------------|----------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Abhishek Mahawar      | Senior Project Manager, KOKO Networks Limited      | KOKO Networks Limited | PoA description, Project boundary, Technical description,                                                                                                 |
| Nancy Koigi           | Head - Market Research                             | KOKO Networks Limited | Monitoring plan, baseline scenario, Technical description                                                                                                 |
| John Ouma             | Associate – Market Research, KOKO Networks Limited | KOKO Networks Limited | Additionality, Project boundary, Ex- ante and Ex- post parameters<br><br>fNRB value, EIA requirement, DNA comments,<br><br>Local stakeholder consultation |

List of end-users interviewed during remote audit:

| Sr.No | Name                  | Mobile number  | ICS Serial number | Key points discussed:                                                                                     |
|-------|-----------------------|----------------|-------------------|-----------------------------------------------------------------------------------------------------------|
| 1     | Monica                | +254 724260954 | 200778213         | 1. How long the customers are using the Product?<br><br>2. What was baseline device used by the customer? |
| 2     | Martha                | +254 743057188 | 200123637         |                                                                                                           |
| 3     | Janet                 | +254 797089616 | 200762073         |                                                                                                           |
| 4     | Sarah Wanjiku Gachina | +254 768313413 | 200626243         |                                                                                                           |
| 5     | Joyce Afandi          | +254 724744048 | 200552046         |                                                                                                           |
| 6     | Esther                | +254 716609958 | 200784054         |                                                                                                           |
| 7     | Mourine               | +254 768493234 | 201167673         |                                                                                                           |

|    |                       |                |           |                                                 |
|----|-----------------------|----------------|-----------|-------------------------------------------------|
| 8  | Martha Wanjiku Kirobi | +254 700404509 | 200123637 | 3. Is the household still using the old device? |
| 9  | Jones Ndolo           | +254 728061915 | 200863230 |                                                 |
| 10 | Samuel                | +254 711398781 | 201035173 |                                                 |
| 11 | Everline              | +254 700923036 | 201034298 | 4. Number of meals cooked in a day              |
|    |                       |                |           | 5. Are they Facing any issues with the Stove    |

During the remote site visit, the assessment team interacted with the household owners randomly. The questions asked and the summary of reply received from the stakeholders are given below:

| Questions?                                                                                                     | Summary of Response by Stakeholders/HHs                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| How long you are using the Product?                                                                            | Each HHs replied with the approximate period by which they were starts using the stoves. The implementation date revealed by the HHs found to be matching with the database.                 |
| Is the ICS being in operating condition now?                                                                   | All the households interviewed reported operational condition.                                                                                                                               |
| Which stove/fuel was used for cooking prior to use of ICS?                                                     | All households confirmed they use traditional wood stove (3 stone fires) primarily for cooking and charcoal & firewood as fuel.                                                              |
| Have you signed end user agreement with CME though which the CER rights are transferred to CME?                | All households confirmed that they have signed end user agreement with CME.                                                                                                                  |
| If any issue with the KOKO Stoves or any grievances, to whom you will report to resolve the issue/ grievances? | All households confirmed that either they report to respective village volunteers or case worker of that area. They also confirmed they have the mobile number of the volunteer/case worker. |
| Have you attended stakeholder consultation meeting?                                                            | Few households confirmed they attended stakeholder consultation meeting conducted on 20/12/2018 at the Pride Inn Hotel, Nairobi.                                                             |
| Do you use still use old traditional stove?                                                                    | All households confirmed that only KOKO cooker (ICS) is used primarily for cooking.                                                                                                          |

### Sampling approach:

VVB has applied acceptance sampling, and as per para 29 and 30 of the guidelines 'Sampling and Surveys for CDM project activities and program of activities /31/ 8 samples had to be selected, however the 11 samples are selected from the samples surveyed by the CME. Sampling has been conducted regarding validation of project description (VPA-DD) in accordance with the "Standard for sampling and surveys for CDM project activities and programme of activities"/25/.

## 2.4 Resolution of Clarification and Corrective Action requests

The objective of this phase of the validation was to resolve the requests for corrective actions and clarification and any other outstanding issues which needs to be clarified for Applus+

Certification positive conclusion on the PoA-DD. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the validation process, the concerns raised, and responses given are summarized in Appendix 1 of this report.

The Gold Standard GS4GG VPA-DD version 04 submitted on 01/06/2022 serves as the basis for the final assessment presented.

## **2.5 Internal Quality Control**

As final step of a validation the final documentation including the validation report and the protocol must undergo an internal quality control by the technical review committee. Each report must be finally approved either by the head of technical review committee or the deputy. In case one of these two persons is part of the audit team, approval can only be given by the other one.

After confirmation of the PP the validation opinion and relevant documents are submitted to the GS Registry.

## **3. PROJECT DESIGN CERTIFICATION ASSESSMENT**

### **3.1 Start date of the VPA**

The starting date of VPA02 is 18/07/2020, the day on which the first ICS was commissioned under the VPA.

In accordance with the para 3.1.4 of GS4GG 'Programmes of Activities Requirements' version 1.2 "For the VPA/CPA Start date definition, refer to the Project Start Date as defined in the Principles & Requirements.

### **3.2 Crediting period type and duration**

The project activity is a "retroactive" project activity and, there is no real action that has been taken before the implementation of the project activity. The latest version of the VPA-DD states that the VPA crediting period will start on 28/08/2020 or 2 years before the date of design certification VPA02, whichever is later, and states that the crediting period for this VPA is 10 years that can be renewed after 5 years, which is within the 20 years duration of the PoA.

Applus+ Certification confirms that the selected duration of the VPA is as per para 13.1.1 of GS4GG 'Programmes of Activities Requirements' version 1.2.

### **3.3 Scale of the Project**

The proposed, VPA falls under the small scale which meets the requirement of Annex B (Criteria 5.1.2. and 5.1.3.) GHG Emission Reductions and Sequestration Product Requirements and it applies the CDM methodology – "AMS I.E., Version 09.

Since this is a transition project, the applicable guidance for determining scale is Annex B Para 5.1.2. and 5.1.3. GHG Emission Reductions and Sequestration Product Requirements. As per the referred guidance, the scale of the project as defined during CDM registration shall be followed for the transition process. The corresponding CDM CPA-DD was checked and confirmed that the CPA was registered as a small-scale project. It is also verified from the specifications of the cookstove model (KOKO Cooker) that the project is meeting the requirements of micro-scale CDM

units and all other relevant Gold Standard guidelines. The project is also exempted from demonstrating any compliance to small scale threshold as approved by Gold Standard in DEV\_247.

### 3.4 Environmental impacts

The environmental impacts have been assessed at the VPA level during validation of CPA 10476 under CDM. The validation team concludes that the project activity does not cause adverse environmental impacts and meets the local/national regulations of Kenya.

Applus+ Certification confirms that the VPA complies with the local environmental regulations of the host country.

### 3.5 Contribution to sustainable development goals

Specific contributions to be determined at VPA level are:

| SDGs                                      | Targets                                                                                                                                                                   | Relevant Indicator                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SDG 3. Good Health and Well being         | 3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.                        | Number of KOKO Users /households experiencing reduction in the indoor air pollution in their kitchen |
| <b>SDG 5. Gender Equality</b>             | <b>5.5</b> Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life | Number of women in managerial positions                                                              |
| <b>SDG 7. Affordable and Clean Energy</b> | 7.1 By 2030, ensure universal access to affordable, reliable, and modern energy services.                                                                                 | Proportion of population or number of households with primary reliance on clean fuels and technology |
| <b>SDG 13. Climate Action</b>             | 13.2. Integrate climate change measures into national policies, strategies and planning                                                                                   | Total GHG emission reduction achieved by the project                                                 |

### 3.6 Baseline Scenario

The assessment team has reviewed the GS PoA-DD & the VPA-DDs, the baseline scenario is the same as the current practice, in accordance with the baseline study. The baseline scenario is that households use non-renewable woody biomass for cooking.

The assessment team confirms that the approved baseline methodology "AMS I.E (09)" has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GS -VPA. The

baseline scenario identification has already been validated at the time of inclusion of the CDM CPAs in the CDM registered CPA 10476.

### 3.7 Project Boundary

The project boundary as per the VPA-DD is the geographical boundary of the Republic of Kenya. The latitude and longitude have been provided in the VPA-DD which is found correct.

The physical boundary will include various regions of Kenya, where the stove will be disseminated. The project boundary was checked during the on-site visit to the project location to confirm that CME will disseminate the stoves only within the geographical boundary of Kenya.

The geographical and physical project boundary of the project activity was determined by the validation team during the CDM validation CPA 10476. The coordinates were correctly documented in the PoA-DD/VPA-DD.

The project boundary is correctly identified in accordance with the methodology AMS-I.E. (Version 9). All greenhouse gas emissions (CO<sub>2</sub>) occurring within the proposed project activity boundary because of the implementation of the proposed VPA have been appropriately addressed in the VPA-DD.

### 3.8 Criteria for Inclusion of SSC-VPA in the PoA

| No. | Eligibility criterion - Category/Required condition                                                                                                                                                           | Means of validation                                                                                                                                                               | Conclusion                                                                                                                                                                                                |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | <u>Location of Project/ Geographic Boundary</u><br><br>The cookstove under the VPA must operate within the geographical boundary of the PoA i.e., Kenya                                                       | Sales database listing all the installed cookstoves is checked by the validation team to confirm that the ICS are installed within Kenya.                                         | VPA02 is in Kenya, hence in compliance with the criteria.                                                                                                                                                 |
| 2.  | <u>Double Counting</u><br><br>The emission reductions claimed by the VPA should be unique and not counted more than once.                                                                                     | Each cookstove has a unique ID number which avoids double counting of the same ICSs. The unique id shall be checked by the team involved in inclusion of VPA.                     | The specific numbering system will be included in the specific CPA-DDs and the end user agreement with each participating household will be checked by the VVB.                                           |
| 3.  | <u>Avoiding Double Counting of Programme Activities</u><br><br>CME shall check GS and UNFCCC's project database and ensure that VPAs are neither registered as CDM/GS project activities, included in another | Declaration from CME that VPA is neither registered as GS or CDM project activities, included in another registered PoAs, nor the project activities that have been deregistered. | The CME has provided the declaration stating that VPA is neither registered as GS or CDM project activities, included in another registered PoAs, nor the project activities that have been deregistered. |

|    |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | registered PoAs, nor the project activities that have been deregistered.                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. | <p>Technology output</p> <p>The specifications of technology/measure including the level and type of service, performance specifications including compliance with testing/certifications</p>                                                    | <p>The CPA consists of a solution to reduce emission from burning non-renewable woody biomass for cooking. The solution includes:</p> <ul style="list-style-type: none"> <li>Ethanol stove that shall have a thermal output of no more than 60 kW and a thermal efficiency of no less than 45%.</li> </ul> | <p>The thermal output and thermal efficiency of the ethanol stoves used in the VPA was checked from the product specification sheet of KOKO Cookers.</p> <p>It was confirmed that the KOKO Cooker thermal output is 2.1 kW, and the efficiency is 60%.</p> <p>The criterion is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding VPAs in the PoA.</p> |
| 5. | Start date of VPA                                                                                                                                                                                                                                | Start date of VPA shall be the date on which first ICS was distributed. The start date of any proposed VPA will be on or after the start date of the proposed PoA                                                                                                                                          | Start date of VPA is 18/07/2020, is being defined as the earliest date on which the Project Developer has committed real action (i.e., the date of selling the first efficient ICS).                                                                                                                                                                                                                                          |
| 6. | <p><u>Applicability of the methodologies</u></p> <p>Conditions to ensure the compliance with other requirements of the applied methodologies, the applied standardized baselines, and the other applied methodological regulatory documents;</p> | CPA must follow AMS.I-E ver 09.0. The VPA to be included will also be checked for the same.                                                                                                                                                                                                                | The VPA applies the methodology AMS I.E., version 9.0, consistent with the VPA. The applicability of the methodology is demonstrated in Section B.2 of the VPA-DD.                                                                                                                                                                                                                                                            |
| 7. | <p><u>Additionality</u></p> <p>Technology distributed under the VPA must meet the following criteria: (a) Positive list (Annex B. 1.1.3).</p>                                                                                                    | The VPA is a registered CDM CPA and has demonstrated additionality at the time of CDM registration based on the applicable CDM requirements. As per GS transition requirement, further additionality assessment is not required.                                                                           | <p>The CPA corresponding to this VPA complies with the additionality criteria as described under the CDM PoA-DD. The justification for additionality under CDM registration is duly validated and approved by CDM EB.</p> <p>As per Annex B of GHG Product Requirements, the CDM PoA/CPAs are not required to carry out additional assessment</p>                                                                             |

|     |                                                                                                                                                                          |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                          |                                                                                                                                                                                                                                                   | for demonstration of additionality over and above what has been done for registration/determination with the CDM unless the project falls into a category that is deemed non-additional in an applicable Gold Standard Activity Requirement.                                                                                                                                                                                                                                                 |
| 8.  | Stakeholder consultation and Engagement                                                                                                                                  | <p>Stakeholder consultation and engagement will be done at the PoA level.</p> <p>The Stakeholder consultation shall be done at the PoA level instead of Activity level.</p>                                                                       | <p>A local stakeholder consultation was held 20/12/2018. The stakeholder consultation was carried out at the PoA level. This was found to be appropriate given that the PoA is single country with the project boundary being Kenya. Also, the SFR is conducted for both PoA and VPA as per the GS requirements.</p> <p>Since the VPA02 expanded to Mombasa, hence separate SFR is conducted (from 10/03/2022 to 21/05/2022) and physical meetings with stakeholders done on 02/04/2022.</p> |
| 9.  | <u>Public Funding (Non-Diversion of ODA)</u><br>Affirmation that funding from Annex I Parties, if any, does not result in a diversion of official development assistance | CME has provided a declaration to confirm that the VPA has received no ODA.                                                                                                                                                                       | The No ODA declaration was checked and found to be as per GS requirement.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10. | <u>Target Group and Distribution Mechanism</u><br>Target Group: Households<br>Distribution Mechanism: Via local partners                                                 | It was confirmed through interview (remotely) of the CME representatives and some households that the target group is households and distribution is done by local partners. The same will be followed by each VPA to be included under this PoA. | The eligibility criterion for inclusion of corresponding CPAs in the proposed GS PoA are defined in accordance with the project standard for PoA, para 124(c)/05/.                                                                                                                                                                                                                                                                                                                           |
| 11. | Sampling plan                                                                                                                                                            | VPAs under the program will adhere to all requirements as                                                                                                                                                                                         | Simple random sampling shall be conducted based on the age group of all the cookstoves                                                                                                                                                                                                                                                                                                                                                                                                       |

|     |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                                   | mentioned in Standard: Sampling and surveys for CDM project activities and programme of activities                                                                                                                                                                                                       | distributed under VPAs at the time of verification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12. | <p>Scale of the Activity</p> <p>Each VPA in aggregate meets the small-scale threshold criteria and remains within those thresholds throughout the crediting period of the VPA</p> | <p>The scale of the project defines by the CDM guidance and the compliance of scale meets the requirement of Annex B criteria 5.1.2. and 5.1.3. GHG Emission Reductions and Sequestration Product Requirements which means that the project activity will remain same as per the CDM registered VPA.</p> | <p>The proposed, VPA falls under the small scale which meets the requirement of Annex B (Criteria 5.1.2. and 5.1.3.) GHG Emission Reductions and Sequestration Product Requirements and it applies the CDM methodology – “AMS I.E., Version 09.</p> <p>Since this is a transition project, the applicable guidance for determining scale is Annex B Para 5.1.2. and 5.1.3. GHG Emission Reductions and Sequestration Product Requirements. As per the referred guidance, the scale of the project as defined during CDM registration shall be followed for the transition process. The corresponding CDM CPA-DD was checked and confirmed that the CPA was registered as a small-scale project.</p> |
| 13. | De-bundling                                                                                                                                                                       | Not Applicable                                                                                                                                                                                                                                                                                           | CPAs are solely composed of “microscale CDM units”, hence the CME is not required to perform de-bundling check.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 14. | Approval of CPA by CME                                                                                                                                                            | CME approved each CPA to be included into the registered PoA.                                                                                                                                                                                                                                            | The CME has confirmed that the VPA can be included in the PoA, which was also confirmed during the remote site visit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15. | <p>Carbon Emission Reduction Rights</p> <p>End users of technology will cede their rights to claim and own carbon emission reductions to the CME</p>                              | A default sales agreement for end users including the provision that emission reductions achieved by the project technology are owned by the CME                                                                                                                                                         | PP has clearly communicated to the stakeholders of each VPA about the claiming of ownership rights through Carbon right transfer form /07/, during the Local stakeholder consultation, as confirmed during remote interviews. The users are fully aware that the carbon ownership rights will be transferred to the project                                                                                                                                                                                                                                                                                                                                                                         |

|     |                         |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |
|-----|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                         |                                                                                                                                                                                                                                       | implementer (CME) as indicated in carbon right transfer form /07/.                                                                                                                                                                                        |
| 16. | SDG assessment outcome  | VPA under the PoA shall demonstrate positive impacts on the SDGs as defined under section A.3. of the PoA-DD.                                                                                                                         | The VPA has positive impacts on SDG 3, SDG 5, SDG 7 and SDG 13.<br><br>SDG contribution with explanation is provided in section B.6 of the VPA- DD.<br><br>The assessment team checked the calculations of the SDG outcomes and found them to be correct. |
| 17. | Safeguarding principles | The CPA must positively contribute towards the sustainable development goals identified in the PoA-DD.<br><br>Please note the SDG assessment has been done at a PoA level and any CPA must conform to the set SD assessment outcomes. | The SDG outcomes for the selected SDGs will be monitored and reported in the monitoring report from each of the households monitored. The approach has been found as appropriate.                                                                         |
| 18. | Retroactive VPA         | Not applicable                                                                                                                                                                                                                        | Not applicable as the VPA is registered under CDM.                                                                                                                                                                                                        |

### 3.9 Eligibility Principles Assessment

- Principle 1. Contribution to Climate Security & Sustainable Development**

The VPA employs the approved baseline methodology AMS I.E., Version 09", the applied methodology is an eligible GS methodology as confirmed from the GS methodological tool "Gold Standard Eligible Impact Quantification Methodologies"

The applicability conditions are justified in the PoA-DD/VPA-DD. The applicability conditions of the methodology are assessed for this PoA as below:

| Applicability Criteria as per methodology                                                                                                                                                   | VVB assessment                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1) This methodology comprises of activities to displace the use of non-renewable biomass by introducing renewable energy technologies. Examples of these technologies include, but are not | The purpose of the VPA to distribute of bio-ethanol stoves for cooking, as checked through sale database/11/ and visual observation during virtual site visit. Since the bio-ethanol fuel is classified as |

|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| limited to biogas stoves, bio-ethanol stoves, solar cookers, passive solar homes                                                                                                                                                 | renewable fuel, the implementation of project activity is found appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| (2) Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods or referring to published literature, official reports or statistics                             | <p>Energy and Development in Kenya – Opportunities &amp; Constraints, The Beijing Institute &amp; The Royal Swedish Academy of Sciences Stockholm, Sweden/32/ was reviewed to study the use of fuelwood and charcoal to meet non-commercial energy demand since 1980. It confirmed that Republic of Kenya has been primarily dependent on fuelwood and charcoal for household energy use long before 1980. Furthermore, the consumption of non-renewable biomass as the primary household fuel till date has been verified from the baseline analysis of the National Climate Change Action Plan 2013-2017/33/ and Second National Communication to UNFCCC/34/.</p> <p>Thus, the applicability criterion was found to be met.</p> |
| (3) The methodology is applicable for technologies displacing use of non-renewable biomass by renewable energy                                                                                                                   | The VPA distribute of bio-ethanol stoves for cooking, as checked through visual observation on-site. The use of bioethanol stove requires bio-ethanol fuel as fuel, which is classified as renewable fuel, the implementation of project activity is found appropriate. Thus, the project will displace the use of non-renewable biomass by renewable biomass.                                                                                                                                                                                                                                                                                                                                                                    |
| (4) Project participants or coordinating and managing entities shall describe in the PDD/VPA-DD how the double counting of emission reductions has been addressed (e.g. between end users, distributors and producers of stoves) | <p>The assessment team has confirmed through virtual interviews and demonstration of end user registration shown by the CME that following factors will aid the CME to avoid double counting:</p> <ul style="list-style-type: none"> <li>(a) The CME collects all the data for each user through digital platform connected to all users via mobile network. There can be only one stove bought for one mobile number.</li> <li>(b) A unique number is allotted to the product at the time of purchase.</li> <li>(c) The price of the stove in comparison to other stove in the market is high. It is highly unlikely</li> </ul>                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>that one household would be able to afford more than one stove.</p> <p>(d) The stoves installed under the project have NFC smart chips, which makes it differentiable than other project stoves/10/.</p> <p>Thus, it can be ascertained that the chances of double counting are low.</p> |
| <p>(5) For project activities introducing bioethanol cookstoves project participants or coordinating and managing entities shall demonstrate that the bioethanol cookstoves are designed, constructed, and operated to the requirements (e.g., with regard to safety) of a relevant national or local standard or comparable literature. Latest guidelines issued by a relevant national authority, or an international organisation may also be used.</p> | <p>Kenya Standard KS 2759/17/ covers the requirements for ethanol fuelled appliances for cooking and heat generation in households.</p> <p>The details of KOKO stove were checked from the manufacturer's specifications/10/ and found to comply with standard/17/.</p>                     |

- **Principle 2: Safeguarding Principles**

The CME has done the safeguarding principles assessment analysis and presented assessment in the gold standard PoA-DD. The assessment has been performed in accordance with requirements prescribed under "Safeguarding Principles & Requirements" version 1.2.

The safeguarding principles assessment are done at PoA level. The VPAs included under this PoA will deploy a similar technology, i.e. improved cook stoves. The management structure of the VPAs, the target population and other stakeholders of the VPAs will be similar, hence safeguarding assessment at PoA level is accepted.

The assessment team has reviewed the initial GS local stakeholder consultation report and GS4GG PoA-DD/CPA-DD and found that the CME has assessed all the required critical safeguarding principle of United Nations in project activity. The assessment team can confirm that the project activity fulfills all the principles like Human Rights, Labor standards, environment protection, and anti-corruption.

The validation opinion of the GS Safeguarding Principles Assessment is detailed in Appendix 03 of this report.

- **Principle 3: Stakeholder Inclusivity**

In accordance with the section 4.1.26 of "Principles & Requirements" v.1.2 "*The Stakeholder Consultation shall comprise of a minimum of two rounds of consultation including one mandatory physical meeting and one stakeholder feedback round lasting for at least two months and these consultations shall be open to anyone wishing to attend*".

Since the PoA/VPAs is already registered CDM (UN-10476) and physical meetings with the local stakeholders was already conducted during CDM registration, hence separate consultation is not required.

The local consultation meeting was held on 20/12/2018 at the Pride Inn Hotel, Nairobi. The meeting was organized in line with the requirements of CDM guidelines.

The invitations were made to include the stakeholders at a national level. Targeted invitations were made for stakeholders from the areas where the CPAs are already being implemented i.e., Nairobi. The invitations were sent 1 week prior to the event to enable adequate preparation by the stakeholder. The purpose of the meeting was communicated with the stakeholders through the invitation letters addressed to respective stakeholders and through the public notice published in the local daily newspaper to invite all the relevant stakeholders" who did not receive a personal invitation.

The assessment team has verified the list of invitees/21/ and attendance list/21/ and confirmed that relevant stakeholder was part of the local stakeholder meeting. The CME has submitted the LSC report that includes the photographs of the physical meeting/35/. The CME has invited the following stakeholders:

- Representatives of local, county, and national government agencies relevant to the project
- Kenyan citizens impacted by the project or official representatives
- Kenyan and international non-governmental organizations (NGOs) working on topics relevant to your project
- The local DNA representative

The assessment team has verified the presentation and videos /29/ shown to the stakeholder were scrutinized to confirm that it includes:

- (a) A summary of the proposed CDM PoA, explaining in simple, non-technical terms, and containing a description of the direct positive and negative impacts;
- (b) Information on the projected scope, lifetime, and direct positive and negative impacts of the proposed CDM PoA;
- (c) Other relevant information about the proposed CDM VPA, considering confidentiality provisions of the applicable CDM M&P above.
- (d) The means to provide comments about the proposed CDM VPA.

The assessment team has verified the minutes of meeting, stakeholders feedback forms and it is observed that no negative comment or grievance found recorded during the stakeholder meeting. Furthermore, the assessment has interviewed the local stakeholders during remote site visit that no negative comments from stakeholders received.

It is noted that the CME had conducted the stakeholder consultation at the PoA level. The PoA involves sale and distribution of ethanol stoves within the Republic of Kenya. The project technology entails use of ethanol stoves which use bio ethanol. The ethanol stoves have a thermal output of no more than 10 kW and a thermal efficiency of no less than 50%. The VPAs covered by this stakeholder consultation have been implemented within the same geographic area i.e., the Republic of Kenya, hence the stakeholder consultation at PoA level is found to be appropriate and acceptable.

#### **Stakeholder Feedback Round (SFR, Nairobi):**

As per the GS guidelines, PoA-level Stakeholder Feedback Round (SFR) was conducted online by seeking public consultation on the project, via KOKO Networks website – [www.kokonetworks.com](http://www.kokonetworks.com), where project documents were made available from 27/05/2021 to 17/08/2021 (more than 2-month period). The stakeholders who were invited in the

first consultation were also invited through email to share their feedback in the SFR. The validation team verified the availability of the consultation notice from 27/05/2021 to 17/08/2021 on the company website of KOKO Networks.

The validation team also verified the minutes of meeting to note that no negative comments were received and the same was cross checked with the information obtained during follow up interviews with the stakeholders during remote site visit. The assessment team has verified the stakeholder meeting records and confirmed that all the stakeholders invited during the first stakeholder consultation were also invited for further comments during the stakeholder feedback round.

The assessment team is in opinion after witnessing the consultation process and document review and interaction with the local stakeholders during remote site visit that SFR has been conducted in line with GS guidelines and a grievance/input mechanism is established. No negative comments were received during the stakeholder feedback round. It is concluded that the stakeholder consultation carried out adequately.

#### **Stakeholder Feedback Round (SFR, Mombasa):**

Since the VPA02 is expanded to Mombasa County, hence an additional Stakeholder Feedback Round (SFR) was conducted online by seeking public consultation on the project, via KOKO Networks website – [www.kokonetworks.com](http://www.kokonetworks.com), where project documents were made available from 10/03/2022 to 21/05/2022 (more than 2-month period). The aim of this SFR to consult the stakeholders those were affected due to expansion of VPA. The stakeholders were invited through email to share their feedback in the SFR. The validation team verified the availability of the consultation notice from 10/03/2022 to 21/05/2022 on the company website of KOKO Networks.

During the SFR, a physical meeting with local stakeholders was organized on 02/04/2022 in Mombasa. The validation team also verified the minutes of meeting/45/ to note that no negative comments were received and concluded that the stakeholder consultation carried out adequately.

#### **Grievance mechanism:**

The assessment team has verified the minutes of meeting for the stakeholder feedback round conducted and confirmed that the local villagers and other stakeholders were informed about the continuous input mechanism, the expression method and contact details were briefed. This was also confirmed by the assessment team with the stakeholders during the remote site visit. The grievance book has been placed at each regional nodal office to receive the feedback or confirmation of corresponding stakeholder which is accessible to the stakeholders. The assessment team also verified the telephone numbers and e-mail ID provided in the VPA-DD and found that to be valid, hence concluded that a grievance/input mechanism is established.

Applus+ Certification confirms that LSC and SFR were conducted in accordance with the Stakeholder Consultation and Engagement Requirements Version 1.2 and Programme of Activity Requirements Version 1.2.

- **Principle 4: SDG Demonstration of real outcomes**

The sustainable development co-benefits are reported in PoA-DD. As per Annex B criteria 9.1.1. PoA/VPA have demonstrate at least three Sustainable Development Goals (SDGs), one of which must be SDG 13. Further, it is also confirmed that PP/CME will monitor the sustainable development co-benefits of the following SDG's indicators:

- SDG 3 – Good Health and Well being
- SDG 5: Gender Equality
- SDG 7 – Affordable and clean energy
- SDG 13 – Climate action

The assessment team assessed the CMEs claim on the contributions to the SDGs as below:

| SDG   | SDG Indicator                                                                                        | SDG Target                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG 3 | Number of KOKO Users /households experiencing reduction in the indoor air pollution in their kitchen | <p>Target 3.9: "By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination"</p> <p>The use of bioethanol fuel cookstoves will lead to a charcoal usage reduction compared to traditional stoves. The reduction of the charcoal consumption is usually associated with reduced smoke, which can lessen exposure to dangerous indoor air pollution of especially the women and girls responsible the cooking activities. As lower respiratory infection is one of the main causes of death and disability it can be inferred that a reduction in charcoal consumption will be beneficial to the health of stove users.</p> <p>The PoA will reduce the number of deaths and illnesses from indoor air pollution by providing access to clean and renewable energy – ethanol-based stoves. Hence the assessment team confirms the VPA's contribution to SDG 3.</p> |
| SDG 5 | Number of women in managerial positions                                                              | <p>Target 5.5:<br/>         "Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life".</p> <p>The project will employ local women and distribute stoves to vulnerable communities. The project does not reduce or put at risk women's access to or control of resources, entitlements, and benefits. On the contrary, the project will have many benefits for women.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SDG 7 | Proportion of population with                                                                        | Target 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|        |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | primary reliance on clean fuels and technology       | <p>"By 2030, ensure universal access to affordable, reliable and modern energy services"</p> <p>As the project involves access to the affordable energy to the rural households, it ensures replacement of fossil fuel/non-renewable biomass based cookstoves with an efficient bio ethanol based cookstove. The project is designed to provide cleaner, safer, more affordable, and more efficient cooking equipment than traditional stoves to poor household by means of carbon finance. The indicator to monitor the access to affordable and clean energy is the increase in number of households using clean cooking devices such as Improved Cook Stoves. The prime advantage of using the ethanol as fuel is that it is supplied in affordable quantities, and it is a modern energy service suitable for both rural and urban areas. Hence the technology is an affordable, reliable, and sustainable form of energy for cooking. Hence the assessment team confirms the contribution to SDG 7.</p> |
| SDG 13 | Total GHG emission reduction achieved by the project | <p>Target 13.2</p> <p>"Integrate climate change measures into national policies, strategies and planning"</p> <p>The efficient cookstoves will use less fuelwood for the cooking task and thus reduce GHG emissions compared to the traditional way of cooking. The indicator to monitor the target is the amount of the reduced GHG emissions annually through the project as contribution to a lower greenhouse gas emission development path of Kenya it will contribute to the reduction of the emission of GHG. Hence, the PoA reduces GHG emission compare to baseline condition. Hence validation team confirms the VPAs contribution to SDG 13.</p>                                                                                                                                                                                                                                                                                                                                                  |

- **Principle 5: Financial Additionality & Ongoing Financial Need**

The additionality of PoA has been determined as per para 4.1.1 of the GS4GG Programme of Activity Requirements (Version 1.2), as per the guidance as outlined under para 4.1 "The additionality shall be demonstrated at both the PoA and VPA/CPA level, where required, in line with the Principles & Requirements or relevant Activity Requirements. The CME may seek exception by providing convincing justifications validated by Validation/Verification Body (VVB) and approved by Gold Standard as to why demonstration of programme level additionality is appropriate for proposed PoA."

The additionality has been demonstrated at PoA and VPA level, this approach is found to be in line with the para 4.1.1 of the GS4GG Programme of Activity Requirements (Version 1.2), hence accepted.

As per point 4.1.9 of the GS4GG Community Services Activity Requirements Version 1.2 /17/, "Projects that meet any of the following criteria are considered as deemed additional

and therefore are not required to prove Financial Additionality at the time of Design Certification”:

- (a) Positive list (Annex B of this document)
- (b) Projects located in LDC, SIDS, LLDC
- (c) Microscale projects

The project technology entails distribution and use of bioethanol stoves which fall under the positive list of technologies and project activity types that are defined as automatically additional. As stipulated in the methodology, the positive list includes “Project activities solely composed of isolated units where the user of the technology / measure are households or communities or small and medium enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM threshold. As the proposed solutions fall within this definition, the project is considered additional. This is detailed in section B.5 of the CPA-DD.

The additionality demonstration has already been validated at the time of inclusion of the CDM CPAs in the CDM registered PoA 10476 and hence the additionality related information provided in the GS VPAs are found correct. The registered CDM CPA has demonstrated additionality at the time of CDM registration based on the applicable CDM requirements and also each VPA Community Service Activity project is deemed additional and therefore is not required to prove Financial Additionality at the time of Design Certification.

Hence, as per GS transition requirement, further additionality assessment is **not** required because it meets Community Service Activity Requirements criteria 4.1.9 (a): Positive list (Annex B) criteria 1.1.3

### 3.10 Monitoring plan

All parameters required for quantification of SDG outcomes were identified and assessed by the assessment team and found complete. The team leader has conducted the site visit (remotely) to the project location to confirm that:

- i. The monitoring arrangements described in the monitoring plan are feasible within the project design
- ii. The means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, are sufficient to ensure that SDG outcomes achieved by the VPA can be reported ex post and verified.

The ex-ante and monitoring parameters related to SDG 13 were found to be in accordance with the requirements of the applied methodology and are duly validated and approved by the CDM EB during CDM registration process. There are no other ex-ante parameters related to other SDGs which was confirmed by the assessment team through review of the calculation’s user for quantifying SDG outcomes of other SDGs. The monitoring parameters reported for other SDGs are discussed below:

**Parameter fixed ex-ante:**

| Relevant<br>SDG<br>Indicator | Parameter                                    | Value in<br>VPA-DD                                | Assessment                                                                                                                                                                                                                                         |
|------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1.1                       | $f_{NRB}$ ,                                  | 0.9268                                            | The value is sourced from the list of the default $f_{NRB}$ values published on UNFCCC website. The same has been fixed ex-ante based on the calculations as indicated in the CDM CPA-DD/ERs sheet, which is found correct by the assessment team. |
| 13.1.1                       | $NCV_{biomass}$<br>(TJ/Tonne)                | 0.0156 for wood and 0.0295 for charcoal           | These values sourced from the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 2: <a href="http://www.ipcc.nggip.iges.or.jp/public/2006gl/vol2.html/41/">http://www.ipcc.nggip.iges.or.jp/public/2006gl/vol2.html/41/</a> .     |
| 13.1.1                       | $EF_{projected}$<br>(tCO <sub>2</sub> e/TJ)  | 63.7                                              | The value is sourced from the equation 1 of applied methodology/3/.                                                                                                                                                                                |
| 13.1.1                       | $L_{AFy}$ ,<br>(Fraction),                   | 0.95                                              | Default value has been applied as per the methodology /03/.                                                                                                                                                                                        |
| 13.1.1                       | $BC_{BL,PP,y}$<br>(tonnes/person/year)       | 1.71                                              | The value is calculated and found consistent with the registered CPA-DD.                                                                                                                                                                           |
| 13.1.1                       | $N_{p,HH}$ (Number)                          | 4.0                                               | The value has been sourced from the ArcGIS website data published in 2019/24/. The approach was found to be in line with the applied methodology/3/.                                                                                               |
| 13.1.1                       | $EF_{bioethanol\_product}$<br>$ion_y$        | 8.73g<br>CO <sub>2</sub> /Litre                   | The parameter has been determined in line with the registered CDM CPA DD.                                                                                                                                                                          |
| 13.1.1                       | $\eta_{Eth}$ , %                             | 60                                                | The value of this parameter sourced from the manufacturer's specifications and found with the registered PoA DD/40/                                                                                                                                |
| 13.1.1                       | $EF_{EF,j,y}$ ,<br>tCO <sub>2</sub> /MWh     | 1.3                                               | The parameter has been found consistent with the CDM registered PoA DD and CPA-DD/40/.                                                                                                                                                             |
| 13.1.1                       | TDL, %                                       | 20                                                | The parameter has been found consistent with the CDM registered PoA DD and CPA-DD/40/.                                                                                                                                                             |
| 13.1.1                       | $\eta_{old,i}$ , %                           | 20%                                               | The parameter has been found consistent with the CDM registered PoA DD and CPA-DD/40/.                                                                                                                                                             |
| 13.1.1                       | $EF_{CO_2, f}$ ,<br>(gCO <sub>2</sub> /t km) | 245 for light vehicles and 145 for heavy vehicles | The parameter has been found consistent with the CDM registered PoA DD and CPA-DD/40/.                                                                                                                                                             |

**Data and parameters to be monitored:**

The parameters relevant to GHG emission reductions calculation (SDG 13) are reported in the VPA-DD and already validated under CDM. Additional parameters relevant to other SDGs are as following:

| SDG   | Monitoring Parameter                                                                      | Type of Measurement | Validation Remarks                                                                                                                                                                                                                                                                               |
|-------|-------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG 3 | Users' perception on smoke reduction (Air Quality, %)                                     | Qualitative         | The parameter will be monitored annually and accessed through users' interviews during the ICS User Survey. The Annual ICS User Survey will be conducted following the Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB 86, Annex 4).     |
| SDG 5 | Number of women employed by KOKO Networks Limited in managerial positions<br>$N_{f,KOKO}$ | Quantitative        | The parameter will be monitored annually and accessed through HR Records of the employed staff in all the registered companies owned/operated by KOKO Networks Limited.                                                                                                                          |
| SDG 7 | Number of KOKO Cookers operational under the project                                      | Number              | The parameter will be monitored annually and accessed through user's interviews during the ICS User Survey. The Annual ICS User Survey will be conducted following the Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB 86, Annex 4)/31/. |

The assessment team confirms that the monitoring plan as reported in the VPA-DD comply with the applied monitoring methodology and is adequate to quantify all reported SDG outcomes.

### 3.11 Calculation algorithm and/or formula used to determine emission reductions

The applied methodology AMS I.E. defines the methodological steps to determine the emission reduction, difference of non-renewable and renewable, leakages and anthropogenic emissions by the proposed project activity.

The baseline emissions are determined are as follows:

$$BE_y = B_y * f_{NRB,y} * NCV_{biomass} * EF_{projected} \dots\dots\dots(i)$$

Where,

|        |                                                             |
|--------|-------------------------------------------------------------|
| $BE_y$ | Baseline emissions during the year y in t CO <sub>2</sub> e |
|--------|-------------------------------------------------------------|

|                              |                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| $B_y$                        | Quantity of woody biomass that is substituted or displaced in tonnes                                                                           |
| $f_{NRB,y}$                  | Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass ( $f_{NRB}$ ) |
| $NCV_{biomass}$              | Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)                       |
| $EF_{projected\_fossilfuel}$ | Emission factor for the substitution of non-renewable woody biomass by similar consumers. Use a value of 63.7 t CO <sub>2</sub> /TJ            |

Since the VPA02 involves dissemination bio-ethanol stoves to both households only, hence the "Quantity of woody biomass that is substituted or displaced in tonnes" ( $B_y$ ) for households is calculated as follows:

$$B_y = N_{p,HH} * N_{HH} * (BC_{BL,PP,y} - BC_{PJ,PP,y}) \dots\dots\dots(ii)$$

Where,

|                |                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $N_{HH}$       | Number of households in the project activity, number                                                                                                                                                                                            |
| $N_{p,HH}$     | Average number of persons served per household prior to the project Implementation                                                                                                                                                              |
| $BC_{BL,PP,y}$ | Average annual consumption of woody biomass per person before the start of the project activity, tonnes/person/year                                                                                                                             |
| $BC_{PJ,PP,y}$ | If it is found that pre-project devices were not completely displaced but continue to be used to some extent, average annual consumption of woody biomass per person in the pre-project devices during the project activity, tonnes/person/year |

### **Project Emissions:**

#### **Project emission due to biomass cultivation:**

The project boundary is the physical, geographical site of the use of biomass or the renewable energy. So, for the VPA, the boundary would be sites where the project stoves are installed. Continued use of non-renewable biomass within the project boundary will be monitored through parameter  $BC_{PJ,PP,y}$  and factored out already from the baseline emission as seen in equation (ii) above.

Since the bioethanol(biomass) production did not involve dedicated plantation and the bioethanol used under the PoA is sourced from the Molasses production unit, where bioethanol is produced as a by-product. Hence, the scenario of dedicated plantation is not considered to be applicable on this VPA.

Project emissions from the project activity have also been determined using para 22 of the applied methodology/3/:

- /1/. **CO<sub>2</sub> emissions from on-site consumption of fossil fuels due to the project activity**, calculated using the latest version of "TOOL03: Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion". The biomass(bioethanol) produced does not undergo any further processing under the VPA and used as a fuel in the same form as it is taken from the source.

The only point of fossil fuel consumption in the VPA is transportation and storage of fuel. The storage of the fuel does not lead to emission and the emission related to transportation are discussed below.

/2/. **CO<sub>2</sub> emissions from production of bioethanol-** since the tool referred in the methodology does not prescribe a method to calculate this if the production is not under the control of CME. The CME has determined a value of emission factor for 1L of bioethanol production based on the published study report. The sourced were verified during CDM validation and found to be reliable. The project emissions would be calculated based on the amount of bioethanol consumed multiplied with the specific CO<sub>2</sub> emissions due to the production of bioethanol.

/3/. **Emissions from electricity consumption:**

The only source of electricity consumption in the PoA is operation of display screen at KOKOpoints. It was confirmed through virtual interviews of the distribution chain that there was no other source of electricity consumption in the VPA. The project emissions associated with electricity consumption at KOKO points will be monitored continuously as per the applied methodology/03/. Following formula would be used to determine the PE<sub>EC,y</sub>

$$PE_{EC,y} = \sum EC_{PJ,j,y} \times EF_{EF,j,y} \times (1+TDL_{j,y})$$

$$= N_{KP} \times EC_{PJ,j,y} \times EF_{EF,j,y} \times (1+TDL_{j,y})$$

Where,

PE<sub>EC,y</sub> - Project emissions from electricity consumption in year y (tCO<sub>2</sub>/yr)

N<sub>KP</sub> – Number of KOKOpoints installed under the project activity

EC<sub>PJ,j,y</sub> - Quantity of electricity consumed by the project electricity consumption source j in year y (MWh/yr); monitored ex-post

EF<sub>EC,j,y</sub> - Emission factor for electricity generation for source j in year y (t CO<sub>2</sub>/MWh); A conservative default value of 1.3 tCO<sub>2</sub>/MWh is used, according to option A.2 (a) of the tool, since only project emissions are calculated and not baseline emissions.

TDL<sub>j,y</sub> - Average technical transmission and distribution losses for providing electricity to source j in year y; A conservative default value of 20% is used, according to option parameter/data table 3 of the tool, since leakage emissions are calculated.

/4/. **Emissions from transport:**

Following formula would be used to determine PE<sub>TR,m</sub>

$$PE_{TR,m} = \sum D_{f,m} \times FR_{f,m} \times EF_{CO_2,f} \times 10^{-6}$$

Where:

PE<sub>TR,m</sub> = Project emissions from transportation of freight monitoring period m (t CO<sub>2</sub>)

D<sub>f,m</sub> = Return trip distance between the origin and destination of freight transportation activity f in monitoring period m (km)

$FR_{f,m}$  = Total mass of freight transported in freight transportation activity f in monitoring period m (ton)

$EF_{CO_2,f}$  = Default CO<sub>2</sub> emission factor for freight transportation activity f (g CO<sub>2</sub>/t km)

The approach was found to be in line with the applied methodology AMS-I.E. version 9/03/ and CDM registered CPA DD/40/.

#### **Leakage calculation:**

The CME has applied a gross adjustment factor of 0.95 as an alternative to leakages stated in para 34(a) and (b). The approach was found in line with the applied methodology/03/.

#### **SDG Outcome Assessment:**

The CME has submitted the ex- ante calculation in the excel sheet for VPA. The baseline and project calculations in the excel sheet have been checked to confirm that the calculation is which is following the methodology /03/. Based on the ex-ante calculations, the net benefit for each SDG outcome has been summarized as following:

#### **SDG 3**

| Year                                            | Baseline estimate | Project estimate | Net benefit    |
|-------------------------------------------------|-------------------|------------------|----------------|
| Year 1                                          | N/A               | N/A              | 149,250        |
| Year 2                                          | N/A               | N/A              | 149,250        |
| Year 3                                          | N/A               | N/A              | 149,250        |
| Year 4                                          | N/A               | N/A              | 149,250        |
| Year 5                                          | N/A               | N/A              | 149,250        |
| Total                                           | -                 | -                | 746,250        |
| <b>Annual average over the crediting period</b> | -                 | -                | <b>149,250</b> |

#### **SDG 5**

| Year   | Baseline estimate | Project estimate | Net benefit |
|--------|-------------------|------------------|-------------|
| Year 1 | N/A               | N/A              | 7           |
| Year 2 | N/A               | N/A              | 8           |
| Year 3 | N/A               | N/A              | 15          |
| Year 4 | N/A               | N/A              | 20          |
| Year 5 | N/A               | N/A              | 25          |
| Total  | -                 | -                | 75          |

|                                                 |   |   |           |
|-------------------------------------------------|---|---|-----------|
| <b>Annual average over the crediting period</b> | - | - | <b>15</b> |
|-------------------------------------------------|---|---|-----------|

#### SDG 7

| Year                                            | Baseline estimate | Project estimate | Net benefit    |
|-------------------------------------------------|-------------------|------------------|----------------|
| Year 1                                          | N/A               | N/A              | 199,000        |
| Year 2                                          | N/A               | N/A              | 199,000        |
| Year 3                                          | N/A               | N/A              | 199,000        |
| Year 4                                          | N/A               | N/A              | 199,000        |
| Year 5                                          | N/A               | N/A              | 199,000        |
| Total                                           | -                 | -                | 995,000        |
| <b>Annual average over the crediting period</b> | -                 | -                | <b>199,000</b> |

#### SDG 13

| Year                                            | Baseline estimate   | Project estimate | Net benefit      |
|-------------------------------------------------|---------------------|------------------|------------------|
| Year 1                                          | 1,083,190.70        | 1297.58          | 1,081,893        |
| Year 2                                          | 1,083,190.70        | 1297.58          | 1,081,893        |
| Year 3                                          | 1,083,190.70        | 1297.58          | 1,081,893        |
| Year 4                                          | 1,083,190.70        | 1297.58          | 1,081,893        |
| Year 5                                          | 1,083,190.70        | 1297.58          | 1,081,893        |
| Total                                           | 54,15,953.50        | 6,487.90         | 5,409,465        |
| <b>Annual average over the crediting period</b> | <b>1,083,190.70</b> | <b>1297.58</b>   | <b>1,081,893</b> |

The assessment team confirms that the estimation of SDG outcomes has been conducted as follows:

- Appropriate methods and formulae for calculating baseline emission, project emissions and leakage have been followed.
- Any assumptions used in emission or removal calculations have been justified.
- Appropriate emission factor and other reference values have been correctly applied. It can be confirmed that the baseline calculation is overall correct.
- The ER calculation sheet /3.1/ provided is clear, transparent and the calculations provided in the sheet are reproducible.

(e) The claimed emission reductions are free from material errors, omissions, or misstatements.

#### 4. **REFERENCE**

| No . | Author | Title                                                                                                                                             | References to the document   | Provider |
|------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------|
| 1    | CME    | Project Design Document (PoA-DD)                                                                                                                  | Version 02, dated 12/04/2021 | CME      |
|      |        | Project Design Document (PoA-DD)                                                                                                                  | Version 03, dated 09/09/2021 |          |
|      |        | Project Design Document (PoA-DD)                                                                                                                  | Version 03, dated 10/11/2021 |          |
|      |        | Project Design Document (PoA-DD)                                                                                                                  | Version 04, dated 20/11/2021 |          |
|      |        | Project Design Document (PoA-DD)                                                                                                                  | Version 05, dated 31/03/2022 |          |
| 2    | CME    | VPA-DD                                                                                                                                            | Version 02, dated 18/01/2022 | CME      |
|      |        | VPA-DD                                                                                                                                            | Version 03, dated 24/05/2022 |          |
|      |        | VPA-DD                                                                                                                                            | Version 04, dated 01/06/2022 |          |
|      |        | VPA-DD                                                                                                                                            | Version 05, dated 25/06/2022 |          |
| 3    | UNFCCC | Small-scale Methodology AMS-I.E 'Switch from non-renewable biomass for thermal applications by the user'                                          | Version 09 and version 12    | Others   |
| 3.1  | CME    | ER Calculation sheet VPA002                                                                                                                       | -                            | CME      |
| 4    | UNFCCC | PCP for PoA                                                                                                                                       | Version 3.0                  | Other    |
| 5    | UNFCCC | PS for PoA                                                                                                                                        | Version 3.0                  | Other    |
| 6    | UNFCCC | VVS for PoA                                                                                                                                       | Version 3.0                  | Other    |
| 7    | CME    | Sample copies of end user agreement between EPC and end user                                                                                      | -                            | CME      |
| 8    | ESPL   | CDM Validation Report for Registered PoA-DD                                                                                                       | Version 04, dated 12/07/2019 | Others   |
| 9    | CME    | CONTROLLED COOKING TEST Report (Nairobi)                                                                                                          | December 2020                | CME      |
| 10   | CME    | Stove specifications for models disseminated monitoring period in line with the Inclusion Criteria 4- Technical Specification of bioethanol stove | -                            | CME      |

|    |                           |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |        |
|----|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|
| 11 | CME                       | Sample Purchase orders (Samples) for import of cookstoves from India issued by KOKO Networks Ltd PO01616 to PO1700<br>Digital Database of (KOKO stove sold) and sample digital application form<br>Registration of household in app-based software: screenshot of smart phone application (sample copy) from the KOKO Mobile App – Customer Journey | -                                                                                                                | CME    |
| 12 | Kenya Bureau of Standards | Kenya Standard KS 2759:2018                                                                                                                                                                                                                                                                                                                         | 2018                                                                                                             | Other  |
| 13 | CME                       | ODA declaration for the PoA                                                                                                                                                                                                                                                                                                                         | -                                                                                                                | CME    |
| 14 | UNFCCC                    | Methodological tool: Calculation of the fraction of non-renewable biomass                                                                                                                                                                                                                                                                           | Version 01.0, EB 97, Annex 9                                                                                     | Others |
| 15 | GS registry               | GS4GG Principles & Requirements                                                                                                                                                                                                                                                                                                                     | Version 1.2                                                                                                      | Others |
| 16 | GS registry               | GS4GG Stakeholder Consultation And Engagement Guidelines                                                                                                                                                                                                                                                                                            | Version 1.2                                                                                                      | Others |
| 17 | GS registry               | GS4GG Community Services Activity-Requirements                                                                                                                                                                                                                                                                                                      | Version 1.2                                                                                                      | Others |
| 18 | GS registry               | GS4GG Programme Of Activity Requirements                                                                                                                                                                                                                                                                                                            | Version 1.2                                                                                                      | Others |
| 19 | GS registry               | GS4GG Safeguarding Principles & Requirements                                                                                                                                                                                                                                                                                                        | Version 1.2                                                                                                      | Others |
| 20 | GS registry               | COVID 19: Interim Measures                                                                                                                                                                                                                                                                                                                          | Dated 17/05/2021                                                                                                 | Others |
| 21 | CME                       | <b>Local stakeholder consultation:</b><br>Minutes of local stake holder consultation process<br><br>Advertisement in local news paper<br><br>Mail invitation to stakeholders<br><br>Attendance sheet of LSC<br><br>LSC photos                                                                                                                       | Dated 20/12/2018<br><br>Dated 12/12/2018<br><br>Dated 12/12/2018<br><br>Dated 20/12/2018<br><br>Dated 20/12/2018 | CME    |
| 22 | CME                       | <b>Stakeholder Feedback Round (SFR):</b><br>The email sent to local NGOs and International NGOs<br><br>MoM Stakeholder Feedback Round<br><br>SFR public notice                                                                                                                                                                                      | Dated 28/05/2021<br><br>Dated 27/07/2021 (Nairobi) and 02/04/2022 (Momobasa)<br><br>27/05/2021 (Nairobi) &       | CME    |

|    |                           |                                                                                                                                                                                          |                         |        |
|----|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|
|    |                           |                                                                                                                                                                                          | 10/03/2022<br>(Mombasa) |        |
| 23 | UNFCCC                    | Tool 30: Calculation of the fraction of non-renewable biomass"                                                                                                                           | Version 03              | -      |
| 24 | ArcGIS                    | ArcGIS published data<br><a href="http://www.arcgis.com/home/item.html?id=d8c1d70fbb2d49028e0713d425b26805">http://www.arcgis.com/home/item.html?id=d8c1d70fbb2d49028e0713d425b26805</a> | 2019                    | Others |
| 25 | UNFCCC                    | Standard: Sampling and surveys for CDM project activities and programmes of activities                                                                                                   | Version 9.0             | Others |
| 26 | Govt. of Kenya            | The Energy Act 2006                                                                                                                                                                      | 2006                    | Other  |
| 27 | Ministry of Energy, Kenya | Feed-in Tariff Policy 2008: Development of electricity generation projects from renewable sources                                                                                        | 03/2008                 | Other  |
| 28 | Republic of Kenya         | The Energy (Energy Management) Regulations 2012: Promotion of Energy Management and Conservation in Kenya                                                                                | 2012                    | Other  |
| 29 | Republic of Kenya         | The Energy Bill 2017: National Integrated Energy Policy                                                                                                                                  | 2017                    | Other  |
| 30 | United Nation             | Universal declaration of Human Rights<br><a href="https://www.un.org/en/universal-declaration-human-rights/">https://www.un.org/en/universal-declaration-human-rights/</a>               | -                       | Other  |
| 31 | UNFCCC                    | Guidelines: Sampling and surveys for CDM project activities and programmes of activities                                                                                                 | Version 04              | Others |
| 32 | UNFCCC                    | Standard: Sampling and surveys for CDM project activities and programme of activities                                                                                                    | Version 09.0            | Others |
| 33 | CME                       | Email regarding listing date (Preliminary review closure)                                                                                                                                | Dated 02/03/2022        | CME    |
| 34 | CME                       | Local Stakeholder Consultation report (Mombasa)                                                                                                                                          | Dated 02/04/2022        | CME    |
| 35 | Kenya Government          | Certificate of Incorporation CME                                                                                                                                                         | Dated 31/08/2015        | CME    |

|    |                       |                                                                                                                                                                                                                                    |                        |        |
|----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------|
| 36 | CME                   | Declaration that no evidence of insolvency or legal/criminal notices placed against it or any of its Directors                                                                                                                     | -                      | CME    |
| 37 | CME                   | Template for KOKO Agents                                                                                                                                                                                                           | -                      | CME    |
| 38 | CME                   | Annual Training Calendar schedule                                                                                                                                                                                                  | -                      | CME    |
| 39 | UNFCCC                | PoA 7359<br><a href="https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/2XJUR5NOWHY7T8BDAFM4613CIG9VS0/view">https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/2XJUR5NOWHY7T8BDAFM4613CIG9VS0/view</a>                          | -                      | Others |
| 40 | UNFCCC                | PoA 10476<br><a href="https://cdm.unfccc.int/ProgrammeOfActivities/Validation/DB/VDXJMSCMQSCBLXH5OXS8E9HC11I630/view.html">https://cdm.unfccc.int/ProgrammeOfActivities/Validation/DB/VDXJMSCMQSCBLXH5OXS8E9HC11I630/view.html</a> | -                      | Others |
| 41 | CME                   | CDM registered CPA-DD "CPA-0002: KOKO Kenya - Ethanol Cookstoves Program"                                                                                                                                                          | V 04, dated 27/07/2020 | Others |
| 42 | ESPL                  | CDM validation report for "CPA-0002: KOKO Kenya - Ethanol Cookstoves Program"                                                                                                                                                      | V 03, dated 05/08/2020 | Others |
| 43 | Applus+ Certification | Verification report CPA-0002 (MP: 01/01/2020 to 31/12/2020)                                                                                                                                                                        | V 06, dated 10/11/2021 | Others |
| 44 | Gold Standard         | Approved Deviation No. 247 for GS10885 and GS11440 for exemption from small scale threshold compliance                                                                                                                             | dated 27/04/2022       | CME    |
| 45 | KOKO Networks Limited | Minutes of Meeting for physical consultation with stakeholders conducted on 2 <sup>nd</sup> April 2022 at The Royal Castle Hotel in Mombasa                                                                                        | V 01, dated 06/05/2022 | CME    |

## 5. FINAL PROJECT DESIGN CERTIFICATION STATEMENT

Applus+ Certification was contracted by KOKO Networks Limited for validation of the CDM GS VPA "GS10884 - KOKO Kenya - Ethanol Cookstoves Program - CPA-0002" (GS ID-11440). The validation was performed based on rules and requirements defined by UNFCCC for the CDM project activities and GS4GG rules and requirements.

The project activity involves dissemination of bioethanol based cookstove thereby promotes clean energy production and reduces CO2 emissions that are real, measurable, and mainly helps in mitigating climate change. It is demonstrated that the baseline scenario is equal to current practice and the emission reductions attributable to the project are, hence, additional to any that would occur in the absence of the proposed VPA.

The project correctly applies baseline and methodology A.M.S.-I.E Version 09 and is assessed against latest valid GS4GG requirements.

Applus+ Certification applied the following validation process and methodology using a competent validation team.

- The desk review of documents and evidence submitted by the CME in context of the reference GS and CDM rules and guidelines issued by CDM EB and GS secretariat,
- Undertaking/conducting remote site visit, interview, or interactions with the representative of the project CME,
- Reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate and
- Preparing a draft validation opinion based on the auditing findings and conclusions.

The review of the VPA-DD, supporting documentation and subsequent follow-up actions (remote interviews) have provided sufficient evidence to determine the fulfilment of stated criteria. The proposed VPA is meeting all the requirements of the GS4GG standards, Project Standard for VPA version 3.0 and VVS for PoA version 3.0.

**Date:** 27/09/2022

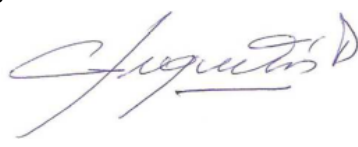
**Lead Auditor:** Ravi Kant Soni

**Tech. Expert:** Ravi Kant Soni

**Tech. Reviewer:** Mr. Miguel Cortés

**Approver** (*Applus+ Certification VVB Technical Manager*)

Mr. Agustín Calle de Miguel

| ASSESSMENT TEAM                                                                                   |                                                                                                    |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Lead Auditor:</b> Ravi Kant Soni                                                               | <b>Technical Reviewer:</b> Mr. Miguel Cortés                                                       |
| Signature:<br> | Signature:<br> |
| <b>Approver:</b> Mr. Agustín Calle de Miguel                                                      |                                                                                                    |
| Signature:<br> |                                                                                                    |

**Appendix 1: Corrective Action Request/Clarification Request/Forward Action Request resolution table**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                     |                                    |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------|--------------------|
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> CAR <input checked="" type="checkbox"/> FAR <input type="checkbox"/> CL/CR | Number:                            | 01                 |
| Raised by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                     | Ref. to checklist in above tables: | Preliminary Review |
| Description of the audit finding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: 20/05/2022                                                                                    |                                    |                    |
| <p>PP is requested to address the FAR raised during the preliminary review by the Gold Standard.</p> <p>FAR # 1: Section A.1.1: the VVB shall validate the compliance to the eligibility criteria of the GHG Emissions Reduction &amp; Sequestration product requirements.</p> <p>FAR # 2:</p> <p>Section A.3: According to the Methodological tool for Demonstration of additionality of microscale project activities, the "CDM micro unit" is defined as "1500 kW electrical installed capacity" for project with distributed energy generation (not connected to a national or regional grid). The VVB shall assess how the proposed project is relevant to this requirement while this is not the electricity generation project.</p> <p>Footnote 12 of the latest version of Tool 19 also clearly mentioned that "Renewable technologies that do not generate electricity, such as heating and cooling technologies, are not eligible."</p> <p>FAR #4: Section B.7.1: The PP shall use the consistent description of indicators between section B.6 and B.7</p> <p>FAR #6: Appendix 1, Principle 2, 6: the PP is requested to provide reference links to the mentioned sources.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                     |                                    |                    |
| Project Participant's response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date: 24/05/2022                                                                                    |                                    |                    |
| <p>FAR#01</p> <p>VVB has responded.</p> <p>FAR#02</p> <p>The VPA applies CDM Tool 19 Version 8 which Is allowed by the GS guidelines (Tool applicable at the time of CDM registration). As per footnote 12 of paragraph 8(c) of the Tool 19 Version 8, project activities generating thermal energy are eligible. It states, "This means that projects applying "AMS-I.D: Grid connected renewable electricity generation" are not eligible. However, project activities generating thermal energy such as solar water heaters displacing grid-connected electric heaters can apply paragraph 8(c)." The guidance clarifies that it Is not restricted to electricity generation units but can be applied for thermal energy generation units as well. This is further explained In SSC Clarification 576 where UN clarified that any project generating thermal energy are eligible under 8(c). The clarification also explains that the capacity 1500 kWe can be converted to thermal capacity by applying a multiplication factor of 3.</p> <p>If we refer to the latest Version 9 of the CDM Tool 19, then the applicable clause for demonstration of additionality will be paragraph 11(c). The footnote (footnote 12) that Sustain-Cert team is referring to is applicable for clause 11(d). However, the project does not demonstrate additionality under clause 11(d) but it does so use the provisions of 11(c). Paragraph 11(c) clearly identifies "Clean and Energy Efficient cookstove" projects as deemed additional.</p> <p>FAR#04</p> <p>The description of indicators between section B.6 and B.7 is made consistent.</p> <p>FAR#06</p> <p>Appendix 1, Principle 2, 6: The required reference links is provided in the VPA-DD.</p> |                                                                                                     |                                    |                    |
| Documentation provided as evidence by Project Participant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                     |                                    |                    |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| Revised VPA-DD v 03, dated 24/05/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |            |
| Auditor's assessment comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Date: | 01/06/2022 |
| <p><b>FAR#01</b><br/>         The CME has included the step-by step validation of compliance to all the eligibility criteria of the GHG Emissions Reduction &amp; Sequestration product requirements in section 1 "Introduction" of the VPA Design Certification Report.</p> <p><b>FAR#02</b><br/>         The VPA is already registered under CDM and applied version 08 of CDM Tool 19 (latest version available at the time of CDM registration). In accordance with the footnote 12, the project activities project activities generating thermal energy are eligible but projects applying "AMS-I. D: Grid connected renewable electricity generation" are not eligible, however the project activities generating thermal energy such as solar water heaters displacing grid-connected electric heaters can apply paragraph 8(c). The VVB is checked the clarification SSC 576 and confirmed that project generating thermal energy are eligible under 8(c).<br/>         The VPA follows the paragraph 11(c) of CDM Tool 19 v09 (latest version) "Demonstration of additionality of microscale project activities", as per the para 11(c) item (ix), "Clean and Energy Efficient cookstove" projects as deemed additional. Hence the VVB can confirm that the VPA complies with the relevant criteria of CDM Tool 19 v 09.</p> <p><b>FAR #4:</b> Section B.7.1: The CME has updated the description of indicators and made consistent in section B.6 and B.7</p> <p><b>FAR#06</b><br/>         Appendix 1, Principle 2, 6: The CME has provided the links in the VPA-DD.</p> <p><b>FAR #1 is closed.</b></p> |       |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                     |                                    |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------|--------------------|
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input checked="" type="checkbox"/> FAR | Number:                            | 01                 |
| Raised by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                     | Ref. to checklist in above tables: | Preliminary Review |
| Description of the audit finding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                     | Date:                              | 20/05/2022         |
| <p>PP is requested to address the FARs raised during the preliminary review by the Gold Standard.</p> <p><b>FAR # 5:</b> According to UNFCCC website, the project got CER issuance from CDM, the VVB must assess the selected start date and period of CP under GS4GG follow the Transition requirement that the project "shall not claim emission reductions under both GS4GG and CDM for the same vintage"</p> <p><b>FAR # 7:</b> Appendix 1, Principle 9.1: the VVB shall validate and confirm the evidence for PP's statement that: "The bioethanol supplied as fuel for KOKO cookers is produced from molasses which is a low value agro residue of the sugarcane crop".</p> |                                                                                                     |                                    |                    |
| Project Participant's response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     | Date:                              | 24/05/2022         |
| <p><b>FAR#05</b><br/>         VVB responded to the comment.</p> <p><b>FAR#07</b><br/>         There are many publicly available independent reports which confirms that all the ethanol produced in Kenya is produced from molasses. (Evidence 1)<br/>         The CME has also submitted a declaration letter which confirms that KOKO Networks is procuring ethanol from 3 plants in Kenya - Mumias Sugar Company, Agro-Chemical &amp; Food Company, Kibos Sugar &amp; Allied Industries, Kisumu.</p>                                                                                                                                                                           |                                                                                                     |                                    |                    |
| Documentation provided as evidence by Project Participant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                     |                                    |                    |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| FAR#07_Evidence 1 Fuel Baseline Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |
| FAR#07 Evidence 2 CME Declaration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |
| Auditor's assessment comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date: | 01/06/2022 |
| <p>FAR#05</p> <p>During each monitoring period issuance request, the VVB will check from CDM portal if any CERs issuance request is published/approved by UNFCCC. VVB will not approve the GS verification if CERs are already issued for that monitoring period. In case, the request is published but not issued under UNFCCC, then VVB will raise a CAR and close it only when the request is withdrawn by the CME.</p> <p>FAR#07</p> <p>The VVB reviewed the submitted evidence and confirmed that KOKO Networks is procuring fuel from local ethanol suppliers. It was also validated that the ethanol produced locally is derived from molasses feedstock as all bioethanol production plants are in sugar refineries.</p> <p>The VVB also confirmed the above information from an independent news article from a reputed news agency – Reuters. (<a href="https://www.reuters.com/world/africa/nairobis-fuel-dispensers-replace-charcoal-kerosene-with-biofuel-2021-10-04/">https://www.reuters.com/world/africa/nairobis-fuel-dispensers-replace-charcoal-kerosene-with-biofuel-2021-10-04/</a>).</p> <p>FAR #2 is closed.</p> |       |            |

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|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|------------|
| Type:                                                                                                                                  | <input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR<br><input type="checkbox"/> FAR | Number:                            | 01         |
| Raised by:                                                                                                                             |                                                                                                        | Ref. to checklist in above tables: | 1.1        |
| Description of the audit finding                                                                                                       |                                                                                                        | Date:                              | 20/05/2022 |
| The number of SDGs to be monitored as mentioned in the PoA-DD is not consistent with the VPA-DD.                                       |                                                                                                        |                                    |            |
| Project Participant's response                                                                                                         |                                                                                                        | Date:                              | 24/05/2022 |
| The PoA-DD and VPA-DD are revised to make the information consistent.                                                                  |                                                                                                        |                                    |            |
| Documentation provided as evidence by Project Participant                                                                              |                                                                                                        |                                    |            |
| SDGs are made consistent in both PoA-DD and VPA-DD. 4 SDGs – SDG 3, SDG 5, SDG 7 and SDG 13 will be reported in each VPA-DD.           |                                                                                                        |                                    |            |
| Auditor's assessment comment                                                                                                           |                                                                                                        | Date:                              | 01/06/2022 |
| The number & information's relevant to the SDGs are updated in the PoA-DD and found to be consistent with the VPA-DD. CL #1 is closed. |                                                                                                        |                                    |            |

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| Type:                                                                                              | <input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR<br><input type="checkbox"/> FAR | Number:                            | 02         |
| Raised by:                                                                                         |                                                                                                        | Ref. to checklist in above tables: | 1.1        |
| Description of the audit finding                                                                   |                                                                                                        | Date:                              | 01/06/2022 |
| Start date of the VPA as mentioned in the VPA-DD is not consistent with the CDM registered CPA-DD. |                                                                                                        |                                    |            |

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| Project Participant's response                                                                                                                                                                                                                                                                                                                  | Date: | 02/06/2022 |
| <p>The start date of CPA was inadvertently mentioned as 20/05/2020. However, as per the Sales database maintained by the CME, the actual start date of CPA is 18/07/2020. This is the date on which 1<sup>st</sup> cooker was sold to customer under CPA-0002. The CME is also submitting the sales database for the purpose of validation.</p> |       |            |
| Documentation provided as evidence by Project Participant                                                                                                                                                                                                                                                                                       |       |            |
| <p>VPA-DD v04<br/>         Sales Database from May 2019 - March 2022.</p>                                                                                                                                                                                                                                                                       |       |            |
| Auditor's assessment comment                                                                                                                                                                                                                                                                                                                    | Date: | 04/06/2022 |
| <p>Start date of VPA 02 was wrongly mentioned in the CDM CPA-DD, the CME has corrected the same in the revised VPA-DD. The assessment has checked the sales database and confirmed that the first KOKO cooker was sold on 18/07/2020, hence this date is considered as start date of VPA02.<br/>         CL #2 is closed.</p>                   |       |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                     |                                    |    |
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| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR | Number:                            | 01 |
| Raised by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     | Ref. to checklist in above tables: | 1  |
| Description of the audit finding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date:                                                                                               | 20/05/2022                         |    |
| <p>Under section B.3, the PP has provided measures to avoid double counting; PP is required to justify the following with supporting document:</p> <ul style="list-style-type: none"> <li>• How the framework can detect situation where a household is taking part in more than one project activity</li> <li>• Uniqueness of the end users in the database, kindly justify what is the basis of identification of the system user.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                     |                                    |    |
| Project Participant's response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date:                                                                                               | 24/05/2022                         |    |
| <p>CME has implemented various measures to avoid double counting at any level. Double counting can take place at Household Level or at CPA level.</p> <p>Measures to avoid double counting at Household Level</p> <p>A unique numbering system for cookstoves will be applied in each CPA/VPA. This will assign a unique serial number to each cookstove and allow CME to clearly identify each cookstove. Before handing over the cookstove to the end-user, the complete information of the end-user is electronically registered and stored on the cloud server and the cookstove serial number is assigned to the registered user.</p> <p>Measures to avoid double counting at CPA level</p> <p>Each CPA/VPA is exclusively bound to this PoA. A written confirmation will be taken from each CPA implementer that the CPA has not been and will not be registered either as a single CDM project activity or as a CPA under another PoA. A statement will be provided by the CPA/VPA implementer that</p> <p>the CPA/VPA is not part of any other carbon offset project activity.</p> <p>It shall also be noted that this is a proprietary technology which is not freely available in the market. Hence, any user can only acquire technology for use from the CME.</p> |                                                                                                     |                                    |    |
| Documentation provided as evidence by Project Participant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                     |                                    |    |
| <p>GS VPA-DD v 03<br/>         Sales database</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |                                    |    |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
| <b>Auditor's assessment comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Date:</b> | 31/05/2022 |
| <p>The CME has described the measures to avoid double counting in the PoA-DD and VPA-DD as well. The following information's are verified by the assessment team during the virtual interviews and documents review:</p> <ul style="list-style-type: none"> <li>(a) The CME collects all the data for each user through digital platform connected to all users via mobile network. There can be only one stove bought for one mobile number.</li> <li>(b) A unique number is allotted to the product at the time of purchase.</li> <li>(c) The price of the stove in comparison to other stove in the market is high. It is highly unlikely that one household would be able to afford more than one stove.</li> <li>(d) The stoves installed under the project have NFC smart chips, which makes it differentiable than other project stoves.</li> </ul> <p>Thus, the chances of double counting are low.<br/>         CAR #1 is closed.</p> |              |            |

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| <b>Type:</b>                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR<br><input type="checkbox"/> FAR | <b>Number:</b>                            | 02         |
| <b>Raised by:</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                        | <b>Ref. to checklist in above tables:</b> | 3.8        |
| <b>Description of the audit finding</b>                                                                                                                                                                                                                                                                                               |                                                                                                        | <b>Date:</b>                              | 20/05/2022 |
| <p>PP is requested to provide the following documentation:</p> <ul style="list-style-type: none"> <li>a) Supportive for the technical specifications of KOKO Cooker as mentioned in section A.3 of the VPA-DD</li> <li>b) Supportive for the stated efficiency of KOKO Cooker as mentioned under section A.3 of the VPA-DD</li> </ul> |                                                                                                        |                                           |            |
| <b>Project Participant's response</b>                                                                                                                                                                                                                                                                                                 |                                                                                                        | <b>Date:</b>                              | 24/05/2022 |
| <p>The following documents are submitted:</p> <ul style="list-style-type: none"> <li>• Technical Specifications of cooker</li> <li>• Efficiency is also included in the specifications</li> </ul>                                                                                                                                     |                                                                                                        |                                           |            |
| <b>Documentation provided as evidence by Project Participant</b>                                                                                                                                                                                                                                                                      |                                                                                                        |                                           |            |
| <ul style="list-style-type: none"> <li>• Technical Specifications of cooker</li> <li>• Efficiency is also included in the specifications</li> <li>• Revised VPA-DD</li> </ul>                                                                                                                                                         |                                                                                                        |                                           |            |
| <b>Auditor's assessment comment</b>                                                                                                                                                                                                                                                                                                   |                                                                                                        | <b>Date:</b>                              | 31/05/2022 |
| <p>The CME has provided the technical specifications including efficiency test results of KOKO Cooker, found to be appropriate. The CME has described the SDGs and safeguarding principles assessment in the relevant sections of the PoA-DD and VPA-DD as well.<br/>         CAR #2 is closed.</p>                                   |                                                                                                        |                                           |            |

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|-----------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|
| <b>Type:</b>                            | <input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR<br><input type="checkbox"/> FAR | <b>Number:</b>                            | 03         |
| <b>Raised by:</b>                       |                                                                                                        | <b>Ref. to checklist in above tables:</b> | 3          |
| <b>Description of the audit finding</b> |                                                                                                        | <b>Date:</b>                              | 20/05/2022 |

As per the PoA-DD, stakeholder consultation at PoA level only. The CME is requested to clarify, how it is ensured that all the stakeholders involved in the VPA02 are consulted.

As per section 6.1.1 Stakeholder Consultation and Engagement Requirements Version 1.2 "The Stakeholder Consultation shall comprise of a minimum two rounds of consultation including one mandatory physical meeting and one stakeholder feedback round lasting for at least two months". Kindly clarify how this requirement is met.

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| Project Participant's response | Date: | 24/05/2022 |
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The justification of stakeholder consultation is provided below:

Requirements:

Minimum 2 rounds of consultation with 1 mandatory physical meeting

(Section 6.1.1, Stakeholder Consultation and Engagement Requirements Version 1.2)

Gender-sensitive Consultation

(Section 4.1.3, Stakeholder Consultation and Engagement Requirements Version 1.2)

Justification

1st Public Consultation: CME conducted 1 round of local stakeholder consultation which involved physical meeting in the area of implementation, Nairobi, Kenya. The 1st open stakeholder consultation was conducted on 20th December 2018 in Nairobi, Kenya.

2nd Public Consultation: CME conducted 1 PoA-level combined stakeholder consultation and stakeholder feedback round (physical meeting) in Nairobi, Kenya. The online stakeholder feedback round was carried out for a period of 2 months. The details are available in the stakeholder consultation report.

3rd Public Consultation: CME conducted another PoA-level combined stakeholder consultation and stakeholder feedback round (physical meeting) in Mombasa, Kenya. This was carried out to involve those stakeholders who were affected by the project expansion to Mombasa. The details are available in the stakeholder consultation report.

The above consultation completed by the CME meets the minimum requirement prescribed by the relevant standards.

The project is currently operational in Nairobi and Mombasa. The consultations conducted by CME adequately covers the minimum requirements for stakeholder engagement stipulated by GS guidelines.

Gender-Sensitive Consultation

Since the project will have 80% of the beneficiaries as women, it will have immeasurable impact on the lives of women. Considering the same, CME was vigilant to seek opinions and feedback of the women. Hence, most invitations (67%) were sent to female stakeholders for stakeholder consultation. CME ensured that majority (more than 50%) of attendees in these stakeholder consultations are women. This allowed them to raise their queries and concerns in a free manner without any gender bias or stereotyping. The CME team actively moderated the consultation process to involve women participants. The minutes of the meetings are also provided to VVB for assessing the involvement of the women participants.

Documentation provided as evidence by Project Participant

- i. The email sent to local NGOs and International NGOs
- ii. MoM Stakeholder Feedback Round
- iii. SFR public notice
- iv. Minutes of local stake holder consultation process
- v. Advertisement in local news paper
- vi. Mail invitation to stakeholders
- vii. Attendance sheet of LSC

|                              |       |            |
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| Auditor's assessment comment | Date: | 01/06/2022 |
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As per the GS guidelines, PoA-level Stakeholder Feedback Round (SFR) was conducted online by seeking public consultation on the project, via KOKO Networks website – www.kokonetworks.com, where project documents were made available from 27/05/2021 to 17/08/2021 (more than 2-month period). The stakeholders who were invited in the first consultation were also invited through email to share their feedback in the SFR.

Since the VPA02 is expanded to Mombasa County, hence an additional Stakeholder Feedback Round (SFR) was conducted online by seeking public consultation on the project, via KOKO Networks website – www.kokonetworks.com, where project documents were made available from 10/03/2022 to 21/05/2022 (more than 2-month period). The aim of this SFR to consult the stakeholders those were affected due to expansion of VPA. The stakeholders were invited through email to share their feedback in the SFR. The validation team verified the availability of the consultation notice from 10/03/2022 to 21/05/2022 on the company website of KOKO Networks.

During the SFR, a physical meeting with local stakeholders was organized on 02/04/2022 in Mombasa. The validation team also verified the minutes of meeting to note that no negative comments were received and concluded that the stakeholder consultation carried out adequately.

Applus+ Certification confirms that LSC and SFR were conducted in accordance with the Stakeholder Consultation and Engagement Requirements Version 1.2 and Programme of Activity Requirements Version 1.2.

CAR #3 is closed.

|                                                                                                                         |                                                                                                        |                                    |                    |
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| Type:                                                                                                                   | <input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR<br><input type="checkbox"/> FAR | Number:                            | 04                 |
| Raised by:                                                                                                              |                                                                                                        | Ref. to checklist in above tables: | Preliminary review |
| Description of the audit finding                                                                                        |                                                                                                        | Date:                              | 01/06/2022         |
| Please address the following issues:                                                                                    |                                                                                                        |                                    |                    |
| i. TRF.2, the status of "Latest monitoring period" shall be "Issued" but not "Awaiting issuance"                        |                                                                                                        |                                    |                    |
| ii. TRF.3, item 9.3 and 9.4 and Table 2 in page 20: Please correct the "Error! Reference source not found"              |                                                                                                        |                                    |                    |
| iii. TRF.3, item 10: the period of SFR is inconsistent with the SCR report.                                             |                                                                                                        |                                    |                    |
| Project Participant's response                                                                                          |                                                                                                        | Date:                              | 02/06/2022         |
| The TRF form is corrected for the identified inconsistencies.                                                           |                                                                                                        |                                    |                    |
| Documentation provided as evidence by Project Participant                                                               |                                                                                                        |                                    |                    |
| Revised TRF form                                                                                                        |                                                                                                        |                                    |                    |
| Auditor's assessment comment                                                                                            |                                                                                                        | Date:                              | 04/06/2022         |
| TRF. 2,: The CME has updated the status of "Latest monitoring period" as "Issued", found to be correct.                 |                                                                                                        |                                    |                    |
| TRF.3, item 9.3 and 9.4 and Table 2 in page 20: The CME has rectified the formatting error and found to be satisfactory |                                                                                                        |                                    |                    |
| TRF.3, item 10: the period of SFR is corrected and made consistent with the SCR report.                                 |                                                                                                        |                                    |                    |
| CAR #4 is closed.                                                                                                       |                                                                                                        |                                    |                    |

## **Appendix 2: Audit Team CVs**

| <b>Name</b>       | <b>SHORT CV. BACKGROUND INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ravi Kant Soni    | He is a certified lead auditor for Lead Auditor ISO 14001:2004&Lead Auditor ISO 14064:2006 GHG Inventory and verification. He has more than 10 years of work experience across Climate Change, Environmental Management & Monitoring, Health & Safety Management, and Statutory Compliance. He was involved in more than 100 CDM validation and verifications activities and Gold Standard, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1 technical area 1.2. He has done Master in Technology (Energy Management) from a premier institute, School of Energy & Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from M.I.T.S Gwalior Jiwaji University Gwalior, India |
| Mr. Miguel Cortés | Mr. Miguel Cortés holds a Bachelor's Science Degree on Civil and Environmental Engineering, being specialized on Hydric Resources. He has worked as CDM/VCS/GS and environmental consultant for different industries of multidisciplinary sectors world widely.<br><br>Mr. Miguel Cortés counts with several years of GHG assessment experience, working and being qualified as Lead Auditor and Technical Reviewer for different DOEs world widely, as well as has been part of Gold Standard expert's committees. Furthermore, he has performed his professional GHG assessment portfolio career worldwide and focusing in Latin America, developing assessments for projects in Argentina, Mexico, Panama, Colombia and Chile, among others.                                      |

## **Appendix 3: GS Safeguarding principles and Requirements**

| <b>Safeguarding principle</b>            | <b>Assessment question</b>                                                                                                                                                                 | <b>Justification</b>                                                                                                                                                                                                                                                                                         | <b>Mitigation measure (if required)</b> | <b>Validation Opinion</b>                                                                                                                                                                                                   |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Social Safeguarding Principles</b> |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                             |
| Principle :1 Human Rights                | a. The Project Proponent and the Project shall respect Internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the | Kenya has signed the Universal Declaration of Human Rights. Validation team confirms that, the project will not breach the principles Also CME is working for environment, poverty alleviation, unemployment, health and literacy in the project area. CME also confirmed that the project actively promotes | Not required                            | The project respects human rights in all points mentioned in the Safeguarding Principles (version 1.1) of the Gold Standard for Global Goals. Kenya has ratified all necessary conventions on human rights. Hence accepted. |

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          | <p>Universal Declaration of Human Rights.</p> <p>b. The Project shall not discriminate with regards to participation and inclusion.</p>                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>participation of both the local population regardless of the sex, religion, age, disability etc. Moreover, the project is implementation of ethanol stoves in households which will not affect the human rights in any way.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                                                                                                                                                                                                    |
| <p>Principle 2: Gender Equality &amp; Women's Rights</p> | <p>Does the Project directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women?<br/>         e.g., Is there a possibility that the Project might:</p> <ul style="list-style-type: none"> <li>- reduce or put at risk women's access to or control of resources, entitlements, and benefits?</li> <li>- adversely affect men and women in marginalized or vulnerable communities</li> <li>- is there an inequality between men and women in terms of benefitting more from the Project's activities?</li> </ul> | <p>The project enhances women's access and entitlement of benefits. Since the women will be direct user of the stoves, it will benefit women by reducing their exposure to the indoor air pollution thereby improving their health.</p> <p>The project will not adversely affect men and women in marginalized or vulnerable communities. Implementation of the project will contribute towards preservation of common resources in form of "firewood". Households' duties related to firewood collection, cooking and cleaning utensils predominantly remain with women.</p> <p>The project will enhance social participation and decision-making role of women. Moreover, the women are expected to develop entrepreneurial skills which will enable them economically to deal with the household problems. The potential of the project to empower women economically will help reduce discrimination against women rather than deepening it.</p> | <p>Not required</p> | <p>The project does not reduce or put at risk women's access to or control of resources, entitlements, and benefits. On the contrary, the project will have many benefits for women. This was checked and confirmed through the discussions with CME during remote site visit.</p> |
|                                                          | <p>2. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women.</p>                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>No, the project doesn't directly or indirectly lead to/contribute to adverse impacts on gender equality. In contrast, the project will contribute to health and well-being of women. Moreover, the project will deploy adequate measures to foster social status of women.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Not required</p> | <p>The project considers the abilities of women or men to participate in the decisions/designs of the project's activity. This was checked and confirmed through the discussions with CME during remote site visit.</p>                                                            |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>a. Sexual harassment and/or any forms of violence against women - address the multiple risks of gender-based violence, including sexual exploitation or human trafficking.</p> <p>b. Slavery, imprisonment, physical and mental drudgery, punishment or coercion of women and girls.</p> <p>c. Restriction of women's rights or access to resources (natural or economic).</p> <p>d. Recognise women's ownership rights regardless of marital status - adopt project measures where possible to support to women's access to inherit and own land, homes, and other assets or natural resources.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | <p>3. Projects shall apply the principles of non-discrimination, equal treatment, and equal pay for equal work, specifically:</p> <p>a. Where appropriate for the implementation of a Project, paid, volunteer work or community contributions will be organised to provide the conditions for equitable participation of men and women in the identified tasks/activities.</p>                                                                                                                                                                                                                         | <p>The women and men will be equally considered in the participation of the project. Without any discrimination, both will be equally trained on the maintenance and to the use of ethanol units for daily cooking needs. The CME has previously implemented similar projects and from checking the implementation and operation of those projects, it can be confirmed that the PP has not discriminated man and women in any activity. The stakeholder consultation documents also verified and found that there is no discrimination in the consultation.</p> | Not required | <p>Men- women have equal participation and equal pay is given for equal work.</p> <p>The safeguarding assessment has been done transparently and it is confirmed that all the relevant stakeholders were involved in the process during the stakeholder consultation meeting, which was also confirmed at the time of remote site visit.</p> <p>The justification provided by CME is found to be appropriate for this project activity context. Hence validation team concludes it</p> |

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|  | <p>b. Introduce conditions that ensure the participation of women or men in Project activities and benefits based on pregnancy, maternity/paternity leave, or marital status.</p> <p>c. Ensure that these conditions do not limit the access of women or men, as the case may be, to Project participation and benefits.</p> | <p>The CME also confirmed that CME will consider gender roles and the abilities of women or men to benefit from the Project's activities.</p> <p>As confirmed by CME, the PoA will not contribute to increase women's workload, rather it will reduce women's workload as the project will avoid/reduce the cooking time and fuel wood collection time. So, women can utilize the saved time in other income generated activities.</p> <p>The PoA provides opportunities to women to participate in the project activities and the CME will provide training to the women in the new technology. Hence the project will make the women more competent and hence it will help in reducing the discrimination against women.</p> <p>Also, the PoA does not limit women's ability to use, develop and protect natural resources.</p> <p>The PoA will not expose women and girls to further risks or hazards. In fact, it will reduce the risk and hazards to women and girls by avoiding the fuel wood collection time and providing clean and safe cooking.</p> |              | <p>does not lead to any gender-based discrimination in this project activity and also it will not harm any women's right.</p> <p>The Project design does not contribute to an increase in women's workload that adds to their care responsibilities or that prevents them from engaging in other activities. This was checked and confirmed through the discussions with CME during remote site visit.</p> |
|  | <p>4. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks.</p>                                                                                                                                                                              | <p>The project follows all the measures to promote gender equality and the empowerment of women. The project shall not create nor any gender risks but will instead help in addressing any potential risks. The same is found to be in line with the National Policy on Gender and Development in 2000 which stipulates a policy approach of gender mainstreaming.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not required | <p>CME does not involve in any form of discrimination in any kind. There are no specific gender risks identified during the project design. However, if any assessment is required to frame gender risks associated with the project, the project participant ensures its full commitment to do so.</p>                                                                                                    |

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| Principle 3:<br>Community Health, Safety and Working Conditions                      | The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community.                                                                                                             | Dissemination activity under the project doesn't involve any activity that triggers safety requirements.<br>On the contrary the project is expected to alleviate existing health risks due to indoor pollution.                                                                                       | required     | The project avoids community exposure to increased health risks and do not adversely affect the health of the workers and the community. The project does not expose women and girls to further risks or hazards. Women are consulted regarding the project and their comments are considered. This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.<br>All employees undergo training and Safety measure for Occupational Safety, Health and Working Conditions and UN Agreement on Human Rights <sup>2</sup> . |
| Principle 4:<br>Cultural Heritage, Indigenous Peoples, Displacement and Resettlement | 4.1 Sites of Cultural and Historical Heritage: Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, or practices)? | The project units will be simple and small in dimension. The project will not result in any change in cooking habits because of substitution of fuel. Therefore, the result of this project won't damage or remove cultural heritage, since the project is implemented in the households of families. | Not required | This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                      | 4.2 Forced Eviction and Displacement: Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?                                                                                            | The project is a household based clean cookstove project, thus the project does not involve physical or economic relocation of peoples                                                                                                                                                                | Not required | The project involves distribution of ethanol stoves in households. Hence the validation team confirms the project does not require any physical or economic relocation of peoples.                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                      | 4.3 Land Tenure and Other Rights Does                                                                                                                                                                                                                        | The project is a household based clean cookstove project, thus                                                                                                                                                                                                                                        | Not required | The project involves distribution of ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

<sup>2</sup> <https://www.ohchr.org/EN/Countries/AsiaRegion/Pages/INIndex.aspx>

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|                                         | the Project require any change to land tenure arrangements and/or other rights?                                                                                                                             | the project does not require change to land tenure arrangements and/or other rights.                                                                                                                                                                                                                              |              | <p>stoves in households. Hence the validation team confirms the project not require any change in land tenure arrangements or other rights.</p> <p>This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.</p>                                                                                    |
|                                         | <p>4.4 Indigenous Peoples</p> <p>Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples?</p>        | The project is a household based clean cookstove project, thus the project does not involve any land ownership. The project will make stoves available for all people living in the project region.                                                                                                               | Not required | <p>The project involves distribution of ethanol stoves in households. The ownership of the ethanol stoves are with the beneficiary only. Hence validation team confirms there is no impact on the rights of indigenous people.</p> <p>This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.</p> |
| Principle 5: Corruption                 | Does the Project engage in, contribute to or reinforce corruption of any kind?                                                                                                                              | The project is not expected to involve any corrupt practices or reinforce the same.                                                                                                                                                                                                                               | Not required | The project does not involve any government contribution and hence the project will not be complicit in corruption. This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.                                                                                                                       |
| <b>Economic Safeguarding Principles</b> |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                                                                                   |
| Principle 6: Economic Impacts           | <p>6.1 Labour Rights</p> <p>1. The Project Developer shall ensure that there is no forced Labour and that all employment is in compliance with national Labour and occupational health and safety laws.</p> | <p>The CME confirms that the monitoring personals involved in the project are through voluntary interest of the staff and it will not be through forced or compulsory labor.</p> <p>The project activity provides employment and respects the local regulations. CME confirms they will not object labours in</p> | Not Required | <p>Kenya has ratified ILO "C138 – Minimum Age Conventions" and "C182 – Worst Forms of Child Labour Convention"<sup>3</sup>.</p> <p>Any deployment of child Labour onsite which is prohibited under relevant provision of Employment Act 2007<sup>4</sup>. This was checked and confirmed through the discussions with</p>                         |

<sup>3</sup> [https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:11200:P11200\\_COUNTRY\\_ID:102691](https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:11200:P11200_COUNTRY_ID:102691)

<sup>4</sup> [https://www.health.go.ke/wp-content/uploads/2015/09/kenya\\_employment\\_act\\_2007.pdf](https://www.health.go.ke/wp-content/uploads/2015/09/kenya_employment_act_2007.pdf)

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|  | 2. Workers shall be able to establish and join Labour organizations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | any kind in establishing and join labour organizations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | CME/stakeholder's during remote site visit.                                                                                                         |
|  | 3. Working agreements with all individual workers shall be documented and implemented. These shall at minimum comprise:<br>(a) Working hours (must not exceed 48 hours per week on a regular basis), AND<br>(b) Duties and tasks, AND<br>(c) Remuneration (must include provision for payment of overtime), AND<br>(d) Modalities on health insurance, AND<br>(e) Modalities on termination of the contract with provision for voluntary resignation by employee, AND<br>(f) Provision for annual leave of not less than 10 days per year, not including sick and casual leave. | <p>CME also confirmed that working agreements with all individual workers will be documented and implemented. Signed contracts can be verified by verifying VVB during the verification.</p> <p>CME confirmed the employment model to be executed will be legally appropriate and as per the current practices followed in the local. Signed contracts will be established which can be verified by verifying VVB during the verification.</p> <p>The working conditions of the employees and workers follow national guidelines of the host country (Kenya). Hence, this safeguarding principle will not be triggered.</p> | Not required | This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.                                             |
|  | 4. Child Labour, as defined by the ILO Minimum Age Convention is not allowed. The Project Developer shall use adequate and verifiable mechanisms for age verification in recruitment procedures. Exceptions are children for work on their families' property as long as:<br>(a) Their compulsory schooling (minimum of 6 schooling years)                                                                                                                                                                                                                                      | The CME confirms that it will not employ any child labour. Also, the installation of these units helps reduce the wood collection time for children, allowing them to regularly attend the school.                                                                                                                                                                                                                                                                                                                                                                                                                          | Not required | No Child Labour is involved in the project. This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit. |

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|  | is not hindered, AND<br>(b) The tasks they perform do not harm their physical and mental development, AND (c) The opinions and recommendations of an Expert Stakeholder shall be sought and demonstrated as being included in the Project design.                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                                                                                                                               |
|  | 5. The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures                                                                                                                                                                                                                                        | The project participants will provide appropriate equipment for assembly of the stoves as well as safety material (gloves, first aid kit). The project partners will provide and document training of workers employed in the project.                                                                                                                                                                                                                                                               | Not required | In order to enhance education of local staff and for professional purposes, Greenway is providing training about environmental stakes, climate change, and operational issues or potential improvement for all the employees. This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit.                                         |
|  | 6.2 Negative Economic Consequences:<br><br>The Projects shall consider economic impacts and demonstrate a consideration of potential risks to the local economy and how these have been taken into account in Project design, implementation, operation and after the Project. Particular focus shall be given to vulnerable and marginalized social groups in targeted communities and that benefits are socially inclusive and sustainable | No risks are foreseen for the local economy through the realization of the project, since stoves are not distributed for free, but need be purchased by the users.<br>The project activity shall provide employment opportunities through the manufacture and sale of the stoves. Indirect employment opportunities will also be created in the supply of denatured ethanol by suppliers, and during the annual monitoring surveys. The income generated which will be a boost to the local economy. | Not required | The project will improve the economy of the beneficiary and there are no potential risks to the local economy.<br><br>Hence, validation team confirms there are no negative economic consequences due to the implementation and operation of the project activity.<br>This was checked and confirmed through the discussions with CME/stakeholder's during remote site visit. |

| <b>Environmental &amp; Ecological Safeguarding Principles</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |              |                                                                                                                                               |
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| Principle 7.<br>Climate and Energy                            | 7.1 Emissions<br>Will the Project increase greenhouse gas emissions over the Baseline Scenario?                                                                                                                                                                                                                                                                                                                                                                                       | The project does not lead to an increase in greenhouse gas emissions above the baseline emissions. The efficient cook stoves will reduce the release of CO2 emissions compared to the traditional three stone fires. | Not required | No, the PoA will not increase greenhouse gas emissions over the Baseline Scenario. The project will lead to reduction of GHG's emissions.     |
|                                                               | 7.2 Energy Supply<br>Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?                                                                                                                                                                                                                                                                 | The project does not use energy from the local grid or power supply that is also being used by other users; hence it does not affect the availability and reliability of energy supply to other users.               | Not required | The project use fuel resource (bioethanol), hence the Project will not use energy from a local grid or power supply                           |
| Principle 8.<br>Water                                         | 8.1 Impact on Natural Water Patterns/Flows<br><br>a. Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?<br><br>b. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion? If 'Yes' or 'Potentially' proceed to question | There will be no direct impact on the water body through the project.                                                                                                                                                | Not required | The Project will not cause additional erosion directly or indirectly and/or water body instability or disrupt the natural pattern of erosion. |
|                                                               | 8.2 Erosion and/or Water Body Instability                                                                                                                                                                                                                                                                                                                                                                                                                                             | The project entails use of ethanol stoves which reduces the use of woody biomass in the project area. This will potentially result in minimization of deforestation in the project boundary, consequently leading    | Not required | The project will not have any impact on the water resources in the region.                                                                    |

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|                                                |                                       | to reduction in the potential occurrence and severity of soil erosion.<br>There will be no direct impact on the water body through the project.                                                                                                                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Principle 9. Environment, Ecology and Land Use | 9.1 Landscape Modification and Soil   | The project is an ethanol stoves project that aims at providing affordable, clean, efficient and easy-to-use cooking stoves for households. It therefore does not involve production of crops neither will it lead to soil degradation. Hence the project does not alter soil quality. | Not required | The project involves use of improved cook stoves which does not involve any landscape modification or leads to vulnerable natural disasters. It also does not involve any manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials. It leads to less pollution (air pollution due to firing of firewood) compared to baseline scenario as the project technology itself is saving in less firewood consumption compared to baseline scenario. Hence, the principle is safeguarded by the project activity. |
|                                                | 9.2 Vulnerability to Natural Disaster | The project's environmental impact is positive, no negative impacts are expected.                                                                                                                                                                                                      | NR           | The project is distribution of ethanol-based stoves to the households and do not affect any natural phenomenon. Hence validation team conclude that the project activity does not lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions.                                                                                                                                                                                                                     |
|                                                | 9.3 Genetic Resources                 | Moreover, the stove distribution activities do not include planting or other agricultural activities, producing chemicals or use of GMOs.                                                                                                                                              |              | The project is distribution of ethanol-based stoves to the households and therefore, is not linked to any activity related to genetic resources.                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                | 9.4 Release of Pollutants             | The project is a household based clean cookstove project, thus the project does not result in the release of pollutants to the environment.                                                                                                                                            |              | By avoiding the traditional cook stove-based cooking the project activity avoids the release of pollutants. Hence, the indoor air pollution will be improved due to the project activity. Hence validation                                                                                                                                                                                                                                                                                                                                           |

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|  |                                                          |                                                                                                                                                                                                                                                       |  | team conclude that the project will not result in the release of pollutants to the environment; instead it will reduce the release of pollutants.                                                                                                                                                         |
|  | 9.5 Hazardous and Non-hazardous Waste                    | The project is a household based clean cookstove project, thus the project does not involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials.                                                   |  | Project does not involve in hazardous material production, trade, or release.                                                                                                                                                                                                                             |
|  | 9.6 Pesticides & Fertilizer's                            | The project is a household based clean cookstove project, thus the project does not involve the application of pesticides and/or fertilizers.                                                                                                         |  | The project is an ethanol stoves project that does not use pesticides nor fertilizers.                                                                                                                                                                                                                    |
|  | 9.7 Harvesting of Forests                                | The project is a household based clean cookstove project, thus the project does not involve the harvesting of forests.                                                                                                                                |  | The project does not involve in harvesting of project. The project will result in reduction of human pressure in the forests by reducing the fuel wood collection due to the use of ethanol stoves in cooking. Hence, validation team confirms the project will not have any adverse impact over forests. |
|  | 9.8 Food                                                 | The project is a household based clean cookstove project, thus the project does not modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives.                             |  | The project is an ethanol stoves project and does not affect crop production, quality, quantity and availability of the same in any way.                                                                                                                                                                  |
|  | 9.9 Animal Husbandry                                     | The project is a household based clean cookstove project, thus the project does not involve animal husbandry.                                                                                                                                         |  | The project is an ethanol stoves project and does not involve animal husbandry practices.                                                                                                                                                                                                                 |
|  | 9.10 High Conservation Value Areas and Critical Habitats | The project is a household based clean cookstove project, thus the project does not physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified. |  | The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are<br>(a) legally protected,<br>(b) officially proposed for protection,                                                                                    |

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|  |                         |                                                                                                                                                                                                        |  | <p>(c) identified by authoritative sources for their high conservation value, or</p> <p>(d) recognized as protected by traditional local communities.</p> <p>The proposed project activity target area shall be households.</p>                                                                                                                                                                                       |
|  | 9.11 Endangered Species | The project is a household based clean cookstove project, thus the project does not impact areas where endangered species may be present through transboundary affects or endangered species directly. |  | <p>The project shall not lead to the reduction or negative impact of any recognized endangered, vulnerable, or critically endangered species. The project is an ethanol stoves project which will entail distribution and use of ethanol stoves at households. The project activity shall not impact on any habitats of endangered species since it entails distribution and use of ethanol stoves at households.</p> |