Sustainability Verification Report for the Gold Standard Project Activity

atmosfair gGmbH

Improved Cooking Stoves for Nigeria Programme of Activities

CPA # 1 Improved Cooking Stoves for Nigeria GS 1162
CPA # 2 Improved Cooking Stoves for Nigeria, GS 1352
CPA # 3 Improved Cooking Stoves for Nigeria, GS 1353
CPA # 4 Improved Cooking Stoves for Nigeria, GS 2437

in
Nigeria

(Gold Standard ID Number GS 834)

Monitoring Period:

01 July 2018 to 30 June 2019

Report No:

CCIPL740/CDM/GS/VER/ICSNPOA/20191115

Report Date: 28/08/2020

Revision No: 05

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I. PROJECT DATA

Project title:	Improved Cooking Stoves for Nigeria Programme of Activities			
Registration No. / Date:	GS 834 / 13/03/2012	Scale:	Small	
Monitoring period:	01-07-2018 to 30-06-2019	**Monitoring Period Number:**	07	
Methodology:	AMS II G version 03	Sectoral Scope/Technical Area:	3/3.1	
Publication of MR:	The CDM monitoring report (version 01, 06/02/2020); GS MR for Ref, 1162, 1352, 1353 and 2437: All version 1 dated 06/02/2020			
Final Monitoring Report:	GS MR dated 28/08/2020 version 05.0			
Average emission reductions:	Estimated:	PoA: 66,368 tCO_2e CPA 1: 8,505 tCO_2e CPA 2: 11,559 tCO_2e CPA 3: 11,627 tCO_2e CPA 4: 34,677 tCO_2e	Verified:	PoA: 26,905 tCO_2e CPA 1: 7,275 tCO_2e CPA 2: 7,690 tCO_2e CPA 3: 5,835 tCO_2e CPA 4: 6,105 tCO_2e
GHG reducing measure/ technology:	The purpose of the PoA is the dissemination of improved cooking stoves in Nigeria. The ICS disseminated under this CPA save fuel wood and hence reduce greenhouse gas emissions stemming from the use of non-renewable biomass.			

Party	Project participants	Party considered a project participant	Contract party
Nigeria (Host)	atmosfair gGmbH	No	☐
Germany	atmosfair gGmbH	No	☒

II. VERIFICATION TEAM

Verification Team			Role							
Full name	Affiliation	Appointed for Sectoral Scopes (Technical Areas)	Team leader	Local Expert	Team Member (Auditor)	Technical Expert	Trainee Auditor	Technical Reviewer	Expert to TR	Trainee TR
Anubhav Dimri	India	1.1, 1.2, 3.1,13.1	X			X				
Tushar Chaudhari	India	1.1, 1.2, 3.1,13.1			X					
Siyanbola Sunday	India	--		X						
Sanjay Kumar	India	1.1, 1.2, 2.1,						X		

Agarwalla		3.1, 4.1, 5.1, 5.2, 9.1, 9.2, 13.1									

III. VERIFICATION REPORT

Verification Phases and Status:

☒ Desk Review ☒ Follow up interviews, On Site Assessment

☒ Resolution of outstanding issues ☒ Corrective Actions / Clarifications Requested

☒ Full Approval and Submission for Issuance ☐ Rejected

Verification Report	**Version**	**Date**
	Version 01	***03/03/2020***
	Version 03	***08/05/2020***
	Version 04	***27/07/2020***
	Version 05	***28/08/2020***
Final Approval Date	**Approval**	**Distribution**
28-08-2020	**Vikash Kumar Singh, Compliance Officer** Vikash K. Singh	☒ No distribution without permission from the Client or responsible organizational unit ☐ Limited Distribution ☐ Unrestricted distribution

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Abbreviations

BAU	Business As Usual
CA	Corrective Action / Clarification Action
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO_2	Carbon Dioxide
CO_{2e}	Carbon Dioxide Equivalent
CPA	Component Project Activity
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
FA	Final Approval
FAR	Forward Action Request
FVR	Final validation Report
GS	Gold Standard
GHG	Greenhouse gas(es)
GWh	Giga Watt Hour
IPCC	Intergovernmental Panel on Climate Change
MP	Monitoring Plan
MWh	Mega Watt Hour
OSV	On Site Visit
QC/QA	Quality control/Quality assurance
RMP	Revised Monitoring Plan
SD	Sustainable Development
SDI	Sustainable Development Indicators
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVB	Validation and Verification Body
VVS	Validation and Verification Standard
WBT	Water Boiling Test

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Verification Opinion — summary

Carbon Check (India) Private Ltd. has performed the seventh (07th) periodic verification of the CDM/GS project “Improved Cooking Stoves for Nigeria Programme of Activities” and UNFCCC reference number 5067 and GS registry number GS834 for the period 01 July 2018 to 30 June 2019. The verification team assigned by the VVB concludes that the CDM/GS Project Activity as described in the registered GS PoA-DD (version 2.3, dated: 24/10/2011), approved revised PoA-DD (version 3.2 dated 24/09/2014), CDM monitoring report (version 01.0, dated 06/02/2020), GS Transition Annex and the GS monitoring report (version 05.0, dated 28/08/2020), meets all relevant requirements of the Gold Standard, UNFCCC for CDM GS project activities including article 12 of the Kyoto Protocol and paragraph 56 and 62 of CDM M & P, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification has been conducted in-line with the UNFCCC CDM VVS for project activities, version 02.0 requirements and Gold Standard for Global Goals Principles and Requirements, version 1.2.

Verification methodology and process

The Verification team confirms the contractual relationship signed on the (18/11/2019) between the VVB, Carbon Check (India) Private Ltd. and the Coordinating Managing Entity/Project Participant, (atmosfair gGmbH). The team assigned to the verification meets the Carbon Check (India) Private Ltd. internal procedures including the UNFCCC requirements for the team composition and competence. CCIPL has conducted a thorough contract review as per UNFCCC and CCIPL’s procedures and requirements.

The verification has been performed as per the requirements described in the Gold Standard for Global Goals Principles and Requirements and VVS and constitutes the review and completion of the following steps:

- Reviewing the approved revised PoA-DD (version 3.2 and dated 24/09/2014), approved revised CPA1 (CPA-DD, version 3.2 and dated 24/09/2014), approved revised CPA 2 (CPA-DD, version 3.2 and dated 24/09/2014), approved revised CPA 3 (CPA-DD, version 3.2 and dated 24/09/2014) and approved revised CPA 4 (CPA-DD, version 3.2 and dated 24/09/2014) including the monitoring plan and the corresponding validation reports, and the Gold Standard Transition Annex, the Sustainability Indicators and monitoring data;
- Upload of GS workplan (06/12/2019);
- On-site assessment (13/12/2019-19/12/2019)[1]
- Review of the applied monitoring methodology (AMS-II. G., version 03);
- Review of any CMP and EB decisions, clarifications and guidance and the Gold Standard Secretariat;
- Desk review of the MR, previous verification reports, deviation request and requests for the revision of monitoring plan and other relevant documents including documents related to the component project activities in emission reductions
- Resolution of CARs and CLs raised during verification
- Issuance of Verification Report

In CCIPL’s opinion, the project activity was correctly implemented according to selected monitoring methodology /B03/, monitoring plan and the approved revised PoA-DD, approved revised CPA-DDs /B06/. The monitoring equipment was installed, calibrated and maintained in a proper manner, while

[1] A joint site visit was undertaken for monitoring and verification for the project activity in accordance with the clarification reference INQ-08508.

collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on site visit the verification team confirms that the PoA (combined CPA1, CPA2, CPA3 and CPA4) has resulted in the 26,905 tCO2e emission reductions during the 6th monitoring period. The GHG emission reductions and non-GHG parameters were correctly calculated/ monitored on the basis of the approved monitoring methodology AMS II. G., version 03 and the monitoring plan contained in the PoA-DD (version 3.2, dated 24/09/2014). Carbon Check as a GS VVB is therefore obliged to issue a positive verification opinion expressed in the attached Certification statement. And certify that the emission reductions from the PoA during the above stated period amount to 26,905 tCO_2 equivalent.

CPA wise verified emission reduction:

CPA 1: 7,275 t CO_2e
CPA 2: 7,690 t CO_2e
CPA 3: 5,835 t CO_2e
CPA 4: 6,105 t CO_2e

Total ERs: 26,905 t CO_2e

The vintage-wise breakdown of the emission reductions is provided below:

CPA1 to CPA 4:
2018 vintage total: 13,563 t of CO_2e
2019 vintage total: 13,342 t of CO_2e

Vintage 2018:
CPA1: 3,667 tCO_2e
CPA2: 3,877 tCO_2e
CPA3: 2,941 tCO_2e
CPA4: 3,078 tCO_2e

Vintage 2019:
CPA1: 3,608 tCO_2e
CPA2: 3,813 tCO_2e
CPA3: 2,894 tCO_2e
CPA4: 3,027 tCO_2e

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1. INTRODUCTION

The Coordinating Managing Entity, atmosfair gGmbH has appointed Carbon Check (India) Private Ltd. to perform an independent verification of the GS Programme of Activity “Improved Cooking Stoves for Nigeria Programme of Activities” in non –Annex 1 host country “Nigeria” (hereafter referred to as “project activity”). This report summarises the findings of the verification of the project, performed on the basis of Gold Standard requirements and toolkit and paragraph 62 of the CDM M & P, as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the CDM Executive Board and Gold Standard Secretariat. Verification is required for all registered CDM GS project activities intending to confirm their achieved emission reductions and proceed with request for issuance of GS CERs. This report contains the findings and resolutions from the verification and a certification statement for the certified emission reductions.

1.1 Objective

Verification is the periodic independent review and ex post determination of both quantitative and qualitative information by a Gold Standard Validation and Verification Body (VVB) of the monitored reductions in GHG emissions that have occurred as a result of the registered CDM GS project activity during a defined monitoring period.

Certification is the written assurance by a VVB that, during a specific period in time, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and certify emission reductions reported and also to verify GS parameters for the “Improved Cooking Stoves for Nigeria Programme of Activities” in country “Nigeria” for the period 01/07/2018 to 30/06/2019.

The purpose of verification is to review the monitoring results and verify that the monitoring methodology was implemented according to the monitoring plan and monitoring data, and used to confirm the reductions in anthropogenic emissions by sources, is sufficient, definitive and presented in a concise and transparent manner. Other non-GHG parameters shall also be assessed as per the requirement of GS. Verification of emission reductions for Gold Standard crediting is only for eligible gases.

In particular, the monitoring plan, monitoring report and the project’s compliance with relevant Gold Standard, UNFCCC and host Party criteria are verified in order to confirm that the project has been implemented in accordance with the previously registered project design and conservative assumptions, as documented. And, also to confirm that monitoring plan is in compliance with the approved revised PoA-DD, approved revised CPA-DDs/B06/, GS Transition Annex /B07/ and approved monitoring methodology /B03/.

1.2 Scope

The scope of the verification is:

- To verify the project implementation and operation with respect to the approved revised PoA-DD, approved revised CPA-DDs and GS Transition Annex.
- To verify the implemented monitoring plan with the approved revised PoA-DD, approved revised CPA-DDs and applied baseline and monitoring methodology.

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- To verify that the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data/ and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission data and other non-GHG parameters as per the requirement of GS is sufficiently supported by evidence.

Carbon Check's scope of verification as a third-party verifier is to verify project emission reductions and sustainable development impacts against the requirements set out by the Gold Standard. The verification shall ensure that the reported emission reductions are complete and accurate in order to be certified.

The verification comprises a review of the monitoring report over the monitoring period from 01/07/2018 to 30/06/2019 and based on the approved revised PoA-DD, approved revised CPA-DDs in part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet, monitoring methodology and all related evidence provided by project participant.

On-site visit and stakeholder interviews are also performed as part of the verification process.

1.3 Project Activity Description

The PoA involves four CPAs (i.e. CPA1, CPA2, CPA3 and CPA4) under this seventh (07th) monitoring report. The other included CPA (CPA5) has not been reported in the monitoring reports and has not been verified by the verification team. The PoA involves distribution of improved cook stoves to the households of host country Nigeria. The CPA1, CPA2 and CPA4 involve the distribution of ICS SAVE80 stoves type /12/, and CPA3 involves distribution of Envirofit G3300 stoves type /12/.

The improved cook stove (ICS) disseminated under SSC-CPA 1, SSC-CPA 2 and SSC-CPA 4 is the "SAVE80", a portable stove made of stainless steel, developed and prefabricated by a German manufacturer and assembled locally to create employment and income. The technology used in the stoves claims to save 80% firewood consumption of a traditional three-stone-fire.

The improved cook stove disseminated under the SSC-CPA 3 is Envirofit G3300, a wood efficient burning rocket stove. Its unique design makes it easier to start a fire quickly and produces a much hotter and cleaner fire that uses significantly less fuel. It is claimed that the design of the stove enables a full combustion with a highly reduced smoke emission and only a small production of ash.

There were no changes observed during OSV from the technology stated during the validation and earlier verifications.

The verification team confirm that the project is in line with the plans contained in the approved revised PoA-DD, approved revised CPA-DDs /B06/ and GS Transition Annex /B07/.

2. METHODOLOGY

The verification consists of the following four phases:

1. Completeness check of the Emission Reductions Monitoring report and Gold Standard Sustainability Monitoring Report, and submission to the Gold Stand Registry and Project Administration System;

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2. Review of project documentation (monitoring plan, monitoring report, monitoring methodology, project design document, applicable tools in particular attention to the frequency of measurements, quality of metering equipment's including calibration requirements, QA/QC procedures and other relevant documents and regulations);
3. On-site visit (including follow-up interviews with project stakeholders, when deemed necessary). The on-site assignment includes the following.
    - An assignment of implementation and operation of project activity with respect to approved revised PoA-DD, approved revised CPA-DDs;
    - Review of information flows for generating, aggregating and reporting the monitoring parameters;
    - Interview with relevant personals to determine whether the operational and data collection procedures are implemented and in accordance with monitoring plan of the approved revised PoA-DD, approved revised CPA-DDs;
    - Cross check of information and data provided in the monitoring report with plant logbooks, inventories, purchase records or similar data sources;
    - Check of monitoring equipment's, calibration frequency and monitoring practice in-line with methodology and the approved revised PoA-DD, approved revised CPA-DDs;
    - Review of assumptions made in calculating the emission reductions;
    - Implementation of QA/QC procedure in-line with the approved revised PoA-DD, approved revised CPA-DDs and the methodology requirement.
4. Resolution of outstanding issues and the issuance of the final Verification report and Certification statement.

The following sections outline each step in more detail.

Duration of Verification:

- Signing of Letter of Engagement: 18/11/2019
- Pre-site visit preparation: 02/12/2019 to 06/12/2019
- On Site Visit 13/12/2019 to 19/12/2019
- Reporting/Calculations/Quality and Control checks: 29/02/2020 to 08/05/2020

2.1 Desk review

The following table outlines the documentation reviewed during the verification:

Ref no.	*Reference Document*
/1/	GS Monitoring Report version 1: 1. CPA 1: GS1162, dated: 06/02/2020 2. CPA 2: GS1352, dated: 06/02/2020 3. CPA 3: GS1353, dated: 06/02/2020 4. CPA 4: GS2437, dated: 06/02/2020
/2/	Final Monitoring Report, version 05 dated 28/08/2020
/3/	Emission reduction calculation spread sheets for CPA 1, CPA 2, CPA 3 and CPA 4, related to the Monitoring Report /1.1/
/4/	Final emission reduction spread sheets for CPA1, CPA 2 and CPA 3, related to final version of monitoring report /2/
/5/	Sample size calculation spreadsheet
/6/	Sampling Random Number Generator for: 1. CPA 1, CPA 2 and CPA 4

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	2. CPA 3
/7/	Sampled Households ICS sales receipt records for: 1. Sample ICS sales receipts CPA 1,2,4 2. Sample ICS Sales receipts CPA 3
/8/	Water Boiling test data sheets: 1. CPA 1, CPA 2 and CPA 4 2. CPA 3
/9/	Sample household questionnaire records for: 1. CPA 1, CPA 2 and CPA 4 2. CPA 3
/10/	Training records with attendance register
/11/	Water boiling test records
/12/	Technical details including the calibration records of the monitoring equipment used for thermal efficiency measurement: 1. Technical details of the SAVE 80 and G3300 type stoves implemented under the PoA. 2. Thermocouple Calibration certificate for 08/12/2019 3. Weighing scale calibration certificate for 08/12/2019 4. Manuals for Weighing scale and Thermocouple
/13/	Sales and Monitoring Database
/14/	EB Clarification letters (INQ-04074-EB dated 30/11/2015 and INQ 08508 dated 19/06/2019)
/15/	Records for Quality of Employment
/16/	Records for reporting form Human capacity
/17/	Records for Reporting Form Quantity of Employment and income generation
/18/	Grievance Report for the monitoring period by CME.

During the desk review, Carbon Check applied the standard auditing techniques to assess the quality of information provided.

2.2 Background documents:

Ref no.	*Reference Document*
/B01/	1. CDM Validation and Verification Standard for PoA version 02 2. CDM Project Standard for PoA version 02 3. CDM Project Cycle Procedure for PoA version 02
/B02/	1. Gold Standard Principles and Requirements version 1.2, dated 24/10/2019 2. Gold Standard Programme of Activity Requirements version 1.2, dated 24/10/2019 3. GS Validation & Verification Body Requirements version 1.0, dated 01/03/2018
/B03/	Applied baseline and monitoring methodology, AMS II. G., version 03
/B04/	Template of MR available on Gold Standard website (version 1, dated June 2017)
/B05/	CDM Registered PoA-DD, version 2.3, Dated: 24/10/2011 CPA 1: CPA-DD, version 2.1, Dated: 24/10/2011 CPA 2: CPA-DD, version 2.0, Dated: 12/06/2012 CPA 3: CPA-DD, version 2.0, Dated: 12/06/2012 CPA 4: CPA-DD, version 2.1, Dated: 15/05/2013 CPA 5: CPA-DD, version 2.1, Dated: 15/05/2013 And corresponding validation reports
/B06/	Approved revised CDM PoA-DD, version 3.2, Dated: 24/09/2014 CPA 1: CPA-DD, version 3.2, Dated: 24/09/2014 CPA 2: CPA-DD, version 3.2, Dated: 24/09/2014 CPA 3: CPA-DD, version 3.2, Dated: 24/09/2014 CPA 4: CPA-DD, version 3.2, Dated: 24/09/2014 CPA 5: CPA-DD, version 3.2, Dated: 24/09/2014
/B07/	1. GS Transition Annex for CPAs 1, 2 and 4 2. GS Transition Annex for CPAs 3 and 5
/B08/	Guideline on the application of Materiality in verifications (version 02.0)
/B09/	Monitoring reports and corresponding verification report of 1st, 2nd, 3rd, 4th,5th and 6th periodic verification available on UNFCCC website/GS website.
/B10/	Weblinks: 1. http://cdm.unfccc.int/ 2. https://www.goldstandard.org

2.3 On-site visit and follow-up interviews with project stakeholders

An OSV was performed by the verification team of CCIPL from 13/12/2019 to 19/12/2019 and the following activities were performed:

i. An assessment of the implementation and operation of the registered project activity as per the approved revised CPA-DDs;
ii. A review of information flows for generating, aggregating and reporting the monitoring parameters;
iii. Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the CPA-DDs;
iv. A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources;

v. A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the CPA-DDs and the selected methodology and corresponding tool(s), where applicable;
vi. A review of calculations and assumptions made in determining the GHG data and emission reductions;
vii. An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.
viii. Verification of the monitoring of sustainable development indicators

In accordance with exemption letter reference number INQ-04704-EB and INQ-08508 provided by UNFCCC/13/, the monitoring activity was undertaken along with the verification by the verification team. The verification team was able to survey (verify) all the households visited as part of the monitoring survey (PP's set of records).

The project representatives and stakeholders interviewed:

	Name	Organization	Topic	Means of interview
/i/	Toyin Oshaniwa	atmosfair gGmbH	Project implementation and operation, monitoring procedure, data and information flow, compliance of monitoring plan with monitoring methodology and approved revised PoA-DD, approved revised CPA-DDs, Roles and responsibility, Sustainability Monitoring Plan, Survey records, Sales/Distribution records	On site (face to face)
/ii/	Tosin Olorunmaiye	atmosfair gGmbH	Monitoring procedure, QA/QC Procedures, Stove Efficiency Tests, Quality Assurance – Management and operating system	On site (face to face)
/iii/	Mikolajewski Katrin	atmosfair gGmbH	CER calculation and completeness of monitoring report, Electronic Monitoring system, Sustainability Monitoring Plan, Sampling Plan, Survey records, Sales/Distribution records, CER waiver records and procedure, QA/QC Procedures, Quality Assurance – Management and operating system	Skype
/iv/	Rachel Olajide	atmosfair gGmbH	Monitoring procedures, Survey records	On site (face to face)

Through the above mentioned activities the verification team confirmed the following Gold Standard project aspects in relation to the project activity:

- The implementation and operation of the project activity is as described in the monitoring plan in the approved revised PoA-DD and approved revised CPA-DDs/B06/ and GS Transition annex /B07/.
- The operational and data collection procedures are implemented as per the monitoring plan in the approved revised PoA-DD, approved revised CPA-DDs/B06/ and GS Transition Annex/B07/.
- The information flow for generating, grouping and reporting of the monitored parameters
- Procedures to avoid double counting are in place.

2.4 Resolution of outstanding issues

The objective of this phase of the verification is to resolve any outstanding issues (issues that require further elaboration, research or expansion) which have to be clarified/corrective action done prior to final VVB's conclusions on the project implementation, monitoring practices and achieved emission reductions. In order to ensure transparency a verification protocol is completed for the project activity. The protocol shows in transparent manner criteria (requirements), means of verification and resulting statements on verification actual project activity against identified criteria.

The verification protocol serves the following purposes:

- It organises in a table form, details and clarifies the requirements, which CDM project is expected to meet CDM requirements.
- It ensures a transparent verification process where the VVB will document how a particular requirement has been verified and the result of the verification.
- It ensures that the issues are accurately identified, formulated, discussed and concluded in the validation report.
- It ensures the determination of achieving credible emission reductions from the project activity.

The verification protocol consists of two tables. Table 1 reflects the verification requirements and reference to the materials used to verify the project activity against those requirements, as well as means of verification, reference to Table 2 (i.e. tables of findings) and preliminary and final opinion of the VVB on every particular requirement listed in table 1.

Verification Protocol Table 1: Requirement checklist				
Checklist question	***Verification Team Comment/MoV***	***Reference***	***Findings comments references, data source / Draft Conclusion***	***Final Conclusion***
The checklist items in Table 1 are linked to the various requirements the project should meet. The checklist is organised in various sections. Each section is then further sub-divided as per the requirements of the topic and the individual project activity.	*The section is used to elaborate and discuss the checklist item in detail. It includes the assessment of the Verification team and how the assessment was carried out. The reporting requirements of the VVS and Project Standard shall be covered in this section.*	*Gives reference to the information source on which the assessment is based on*	*Assessment based on evidence provided if the criterion is fulfilled (OK), or a CAR, CL or FAR is raised (see below). The assessment refers to the draft verification stage.*	*In case a corrective action or a clarification request the final assessment at the final verification stage is given.*

The findings of verification process are summarized in the tables below.

Finding (reference section of table 1)			
Classification	☐ CAR	☐ CL	☐ FAR
Description of finding *(VVB)*			
Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*			
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*			
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☐ The finding is closed		

In Table 2 FAR, shall reflect the forward actions initiated by the verification team if the monitoring and reporting require attention and/or adjustment for the next verification period. The completed verification protocol for this project is enclosed in Appendix A to this report.

Findings during the verification can be interpreted as a non-compliance with CDM criteria or a risk to the compliance.

Corrective action requests (CARs) are raised, in case:

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(a) Non-conformities with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
(b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
(c) Mistakes have been made in applying assumptions, data or calculations of emission reductions which will impair the estimate of emission reductions;
(d) Issues identified in a FAR during validation/previous verification(s) that are not been resolved by the project participant(s) to be verified during current verification.

Requests for clarification (CLs) are raised, if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met.

A forward action request (FAR) is raised during verification to highlight issues related to project implementation/monitoring that require review during the subsequent verification of the project activity. FARs shall not relate to the CDM requirements for issuance.

2.5 Internal quality control

The final verification report has passed a technical review before being submitted to the project participant(s) and UNFCCC Executive Board. The technical review was performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification.

2.6 Verification Team

Carbon Check has appointed a competent team as per the Accreditation Standard and Carbon Check internal procedures, the team is outlined below:

Verification Team			Type of Involvement							
Full name	**Location**	**Appointed for Sectoral Scopes (Technical Areas)**	Supervising the work	Desk review	Site Visit + Interview	Report and protocol Writing	Technical Expert Input	Reporting Support	Technical Reviewer	Trainee TR
Anubhav Dimri	India	1.1, 1.2, 3.1, 13.1	X	X	X	X	X			
Tushar Chaudhari	India	1.1, 1.2, 3.1, 13.1		X	X	X				
Siyanbola Sunday	Nigeria	--			X					
Sanjay Kumar Agarwalla	India	1.1, 1.2, 2.1, 3.1, 4.1, 5.1, 5.2, 9.1, 9.2, 13.1							X	

Anubhav Dimri: is an appointed Team Leader. He holds a Post Graduate Diploma in Industrial Safety and Environmental Management. He is a trained GHG Lead Auditor. He is participated and passed 5 days ISO 50001 Lead Auditor (UNIDO sponsored) training course. He has experience in the field of Carbon Offsets both in the regulatory and voluntary front, including project validation. He has participated in GS, VCS and CDM validations and validations. He has been involved in the GS Verification of “The Breathing Space Improved Cooking Stoves Programme, India” with GS reference number GS 916. He has also been involved in verification of other GS projects with reference numbers: GS 916, GS 1231, GS 1029, GS 1030, GS 1031, GS 1385, GS 411, GS 1162, GS1352, GS1353. He has been involved in more than 100 CDM projects/programme of activities submitted to UNFCCC for Request for Registration/Inclusion/Request for Issuance. He has also worked on a number of VCS projects. He has also attended Several Gold Standard VVB webinar training and training for GS4GG. He has also undergone training for ISO 9001, GHG verifier training, and technical area 1.2 training. He is qualified as technical expert for TA 1.1, 1.2, 3.1 and 13.1 under CDM SS/TA categorization.

Tushar Chaudhari: He is an appointed Team Member for technical area 1.1, 1.2,3.1,13.1. He holds a Masters in Environment Management from North Maharashtra University, Jalgaon and B.Sc. Zoology from M.J. College, in North Maharashtra University, Jalgaon. He is also successfully completed ISO 14001:2015 Lead Auditor course. He had also completed GRI training course. He is having more than 11 years of experience, which involves experience in renewable energy consultancy and auditing. Including 8+ years auditing experience in Climate Change - Clean Development Mechanism. Worked on various projects under CDM, VCS, Gold standard validation and verification process. He has also worked as freelancer EHS, Sustainability consultant and third-party auditor for ISO 14001, EHS compliance and GHG quantification, assessment and auditing, carbon foot printing assessment and third-party auditing. He has worked on project GS561 as consultant. He was also involved in validation and verification the following Gold Standard Projects: GS 5923, GS 6886, GS 6887, and GS 916 PoA [GS 5417 (VPA 012); GS 5418 (VPA 013)].

Siyanbola Sunday: is local host country expert for this project and speaks the local languages spoken in Nigeria.

Sanjay Kumar Agarwalla: Sanjay Kumar Agarwalla: He is an appointed Team Leader and Technical Expert for technical area 1.1, 1.2, 2.1, 3.1, 4.1, 5.1, 5.2, 8.1, 9.1, 9.2 and 13.1. He is having more than 20 years of experience, which involves more than 10 years of industrial experience and almost ten years in climate change. He worked in various capacities at Kesoram Rayon, Durgapur Chemicals Limited, Gensol Consultants, TUV Rheinland India Pvt Ltd and LRQA. He is involved in more than 70 GHG audits including validation/verification/post registration changes. He also has GS Audit Experience and attended the Gold Standard webinar. The GS projects on which he has worked are 1309, 850, 6191, 411, 1353 and 939.

3. VERIFICATION FINDINGS

The findings of the verification are described in the following sections. The verification criteria (requirements), the means of verification and the results of verification are documented in detail in the verification protocol in Appendix A.

3.1 Compliance with the sustainability monitoring plan

Sustainability monitoring plan as contained in the approved revised CPA-DDs/B06/ and GS Transition Annex/B07/ has been monitored by the CME and the same is provided in the Monitoring report/02/. Sustainability monitoring plan was assessed and verified by the verification team during the on-site visit and by means of interview with the local stakeholders and the CME Personnel (who interacted with the users before and after implementation of the project for baseline and project field survey and WBTs). All the mitigation measures have been put in place to prevent the violation or to neutralise a SDI.

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All the non-neutral indicators are monitored by PP and verified by the verification team. Following documents are reviewed during the verification process:

a) Spot check user records/07/, /09/
b) Training record/10/
c) Sustainable Development evidences/15/, /16/, /17/

3.2 Monitoring of Gold Standard Sustainability Indicators

Verification team checked the sustainable development indicator parameters through documents review/15//16//17/ and on-site visit interviews.

Following table provides the information on additional parameters that are monitored in accordance with the monitoring plan for sustainability indicators as referred in the Gold Standard Transition Annex/B07/ and monitoring report/02/ (version 05 dated 28/08/2020).

The discussion on any additional parameters that are monitored in accordance with the monitoring plan for sustainability indicators as referred in the Gold Standard Transition Annex/B07/ and monitoring report (version 05 dated 28/08/2020) is provided below.

Indicator	Monitoring Source	Variables, Unit and Frequency of measurement	Assessment
SDG indicator 5.4.1: Proportion of time spent on unpaid domestic and care work, by sex, age and location	Recording number of cooking demonstrations.	At least biennial Number of cooking demonstrations carried out	The parameter has monitored through the records of cooking demonstrations carried out during the monitoring period. Since, no cooking demonstrations were carried out during the monitoring period a 0 value has been reported. CME has clarified that the sales activities are put on hold due to the challenges related to terrorism and political instability. Therefore, no cooking demonstrations took place during this monitoring period. Furthermore, it was also checked during the site visit by the verification team with the CME

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			representatives.
SDG indicator 7.1.2: Proportion of population with primary reliance on clean fuels and technology	Sales records (Database), Sample survey will include question on improvement of air quality.	At least biennial Air Quality: Number of SAVE80 systems in use Results from spot checks conducted in user HH	The parameter has been calculated by conducting sample surveys with the households in CPA 1, CPA 2 and CPA 4 and a value of 91.89% was determined where the households responded that they perceive better air quality. For CPA 3, conducting sample surveys with the households resulting in 94.59% where the households responded that they perceive better air quality. Furthermore, it was also checked during the site visit by the verification team and same question were checked from the sample households. All the households responded that they perceive better air quality.
SDG indicator 7.1.2: Proportion of population with primary reliance on clean fuels and technology	1. Primary data collection: dedicated monitoring team 2. Sample sales receipts, cost calculation stoves	At least biennial Access to affordable and clean energy services: 1. Change in traditional Fuel Consumption 2. Discounted stove price for end users: profitable market price > sales price	The stove distribution has been done at the capped price which is much less than the landed cost of each ICS. This has been compared against the sample sales receipt/07/. For all the CPAs, the parameter has been monitored through the savings of the traditional fuel by comparing the baseline fuel usage with the fuel usage in the project scenario. The values reported have also been

			compared against the reported values in the CPA-DDs/B06/.
SDG indicator 7.1.2: Proportion of population with primary reliance on clean fuels and technology	1. Sales records (Database) 2. Report about the status of shift of production steps	At least biennial Technology transfer and technological self-reliance 1. Types, Number and nature of ICS disseminated / in use 2. Shift of production steps to Nigeria	The technology transfer has been verified as the SAVE 80 type stoves have been assembled in the host country Nigeria. This has been cross verified with the database/07/. For CPA 3 Envirofit G3300 is also imported, cross verified from the sales database/07/.
SDG indicator 8.5.2: Unemployment rate, by sex, age and persons with disabilities	Recording time of 3 assemblies	At least biennial Quality of employment: Time needed for assembly of ICS	The anticipated assembly time for SAVE 80 stoves under CPA 1, CPA 2 and CPA 4 was 40 minutes. No assembly of ICS took place in MP7. This parameter has been measured through the training conducted during the monitoring period/10//15/. For CPA 3 no assembly is required as cook stoves are delivered as a fully assembled product. This parameter has been measured through the training conducted during the monitoring period/10//15/.
SDG indicator 8.5: Unemployment rate, by sex, age and persons with disabilities	Staff figures reported by the distributors	At least biennial Quantitative employment and income generation Number of jobs created by the project activity, e.g. through project management and monitoring	The parameter is monitored through the total number of jobs created and their responsibilities; also the number of stoves in use is checked. The values reported have been compared with the values in the reporting form for the parameter/17/.

SDG Contributions:

SDG Contributions				
Goal 5; Target 5.4; Indicator 5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age and location	Estimated:	Envisaged number of cookstove demonstrations during implementation phase: 10/year	Verified:	Number of cookstove demonstrations 0/year
Goal 7; Target 7.1; Indicator 7.1.2 Proportion of population with primary reliance on clean fuels and technology	Estimated:	- Air quality: 100% of the HH benefitting from better air quality - Access to affordable and clean energy services: 3.8 tonnes of fuel saved per appliance and year; Discounted stove price for end users: profitable market price > sales price - Technology transfer and technological self-reliance: CPA1: 3200 stoves, CPA2: 3200 stoves; CPA3: 3750 stoves; CPA4: 9600 stoves; Shift of production steps to Nigeria	Verified:	• **Air quality:** for CPA 1: 2,612 households (100%) for CPA 2: 2,760 households (100%) for CPA 3: 1,948 households (97.14%) for CPA 4: 2,192 households (100%)) • **Access to affordable and clean energy services- Tonnes of fuel saved per appliance and year:** for CPA 1: 3.275 for CPA 2: 3.275 for CPA 3: 3.786 for CPA 4: 3.275 • Discounted stove price for end users: profitable market price > sales price • **Technology transfer and technological self-reliance:** CPA1: 2,842 stoves, CPA2: 3.004 stoves; CPA3: 2,120 stoves, CPA4: 2,385 stoves; Assembly was done in Nigeria.
Goal 8; Target 8.5; Indicator 8.5.2 Unemployment rate, by sex, age and persons with disabilities	Estimated:	- Quantitative employment and income generation: Number of Jobs: Project Management 1 person; Monitoring: 2 persons - Quality of employment: Assembly time <40min	Verified:	• **Quantitative employment and income generation:** Number of Jobs: Project Management 1 person; Monitoring: 6 persons • **Quality of employment:** 0, No assembly done during MP7

Grievance:

The verification team checked the grievance mechanism and the list of inputs maintained at the project site and found to be appropriate. Verification team confirms that the grievances were registered by the project participant during the monitoring period and all the suggestions / requests of the stakeholders were compiled by the CME/18/. This was confirmed from the review of the Grievances provided in the GS MR/02/ and also during on site visit interviews by the verification team.

3.3 Issues remaining from the previous verification period or during validation

There are no issues pending from the previous verifications.

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APPENDIX A

Carbon Check

Gold Standard Sustainability Monitoring Protocol

Efficient Fuel Wood Stoves for Nigeria
in

Nigeria

Report No. CCIPL740/CDM/GS/VER/ICSNPOA/20191115

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Carbon Check's Checklist question	Ref.	MoV[2]	Findings, comments, references, data sources	Draft conclusion	Final conclusion
1. Sustainability Monitoring					
1.1 Have all non-neutral indicators been monitored as per the sustainability monitoring plan?	/1/ /B07/	DR, I	Yes, all the non-neutral indicators have been monitored as per the sustainability monitoring plan.	OK	OK
1.2 Have the methods to monitor data changed? And are they suitable to the project scale and type?	/1/, /B06/, /B07/	DR, I	Methods to monitor data have not changed as compared with the monitoring plan in the approved revised PoA-DD/B06/ and Transition Annex/B07/.	OK	OK
1.3 Has the way of monitoring been followed? With the inclusion of dates and parameters?	/1/ /B07/	DR, I	The sustainability monitoring plan has been followed as per described in the approved revised PoA-DD /B06/ and Transition Annex/B07/.	OK	OK
1.4 Have mitigation measures been put in place to prevent the risk of the violation of the safe guarding principle of "Do No Harm" assessment or to neutralise a Sustainable Development Indicator that is being monitored?	/1/ /B07/	DR, I	The mitigation measures have been put in place that has been put in records as a proof of the same. Several supporting documents as listed under section 2.1 have been provided. Also, the physical verification of the households and interviews of the trained personals of PP were performed during on site visit.	OK	OK

[2] MoV = Means of Verification, DR = Document Review, I = Interview, www = internet search.

1.5 Has all the data in the Sustainability development matrix been verified and cross checked against available sources of project data? Has it been described how sustainable development would be affected if a variance occurred?	/1/ /B07/	DR, I	Yes, all data in the sustainability development matrix have been verified and cross checked from the supporting documents and during on site visit.	OK	OK
2. Other					
2.1 Are there any issues from the previous validation/verification? (ie FARs, requests/approvals for RMP)	/1/ /B09/	DR, I	There are no issues pending from the previous verification or from validation.	OK	OK
2.2 Has the project ever received any requests for reviews or incompletes from the UNFCCC or GS Secretariat?	/1/ /B09/	DR, I	No there are no request for reviews or incomplete for the project.	OK	OK
2.3 The evaluation of the status of mitigation and compensation measures has been verified.	/1/ /B09/	DR, I	Yes, the status of mitigation and compensation measures has been verified.	OK	OK

List of findings

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

FAR ID	xx	**Section no.**	E.2	**Date:** DD/MM/YYYY
Description of FAR				
Project participant response				**Date:** DD/MM/YYYY
Documentation provided by project participant				
VVB assessment				**Date:** DD/MM/YYYY

Table 2. CL from this verification

CL ID	01	**Section no.**	NA	**Date:** 04/03/2020
Description of CL				
The information on number of stoves distributed under CPA 1 is inconsistent in MR, ER spreadsheet and CDM MR for the current monitoring period.				
Project participant response				**Date:** 23/04/2020
CME corrected the number of stoves distributed to be consistent in the MR and in line with the ER spreadsheet and CDM MR for the current monitoring period.				
Documentation provided by project participant				
Revised GS MR				
VVB assessment				**Date:** 24/04/2020
The revised MR has been checked and now found that CME has now corrected the information on number of stoves distributed under the CPAs and accordingly updated the relevant information on SDG impacts consistently in revised CDM MR, ER spreadsheet for the current monitoring period. **Thus, this CL 01 is closed.**				

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CL ID	02	Section no.	NA	Date: 04/03/2020
Description of CL				
In the section C of the MR, ….“I*n response to the political situation in Nigeria the UN approved following exception which is valid until the 14th of June 2020”.* However as per referred INQ-008508 valid for additional one year from 14/06/2019 means 13/06/2020.				
Project participant response				**Date:** 23/04/2020
CME corrected the validity date.				
Documentation provided by project participant				
INQ-04074-EB, Revised GS MR				
VVB assessment				**Date:** 24/04/2020
CME has now corrected the validity of referred UNFCCC clarification INQ 04074-EB and INQ-08508 in the section C of revised MR. **Thus, this CL 02 is closed.**				

CL ID	03	Section no.		Date: 04/03/2020
Description of CL				
1. In the section D.2 of the MR, for the parameter DO_y, the actual dropout from total population of appliances in period is more than the defined 5% value mentioned in the Transition Annex. 2. For the parameter, η_{new} in the MR, the values mentioned in the MR are inconsistent with ER calculation sheet. 3. The number of samples mentioned under section D.3.1 and D.3.2 of the MR is inconsistent with values mentioned in the CDM MR. 4. The information on FAR raised during GS review process has not been provided.				
Project participant response				**Date:** 23/04/2020
1. The value for DOy mentioned in Section D.2 of the MR is the real drop-out value monitored for this monitoring period. The value of 5% for the drop-out rate mentioned in the transition Annex was an ex- ante estimate used for ex- ante calculation of emission reductions. *2. The parameter was corrected to be consistent with the ER calculation sheet.* *3. CME corrected the number of samples.* *4. No FARs have been raised during the transition review or earlier performance reviews by the Gold Standard.*				
Documentation provided by project participant				
Revised MR				

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VVB assessment	Date: 24/04/2020
1. The provided clarification is found appropriate. Further, the value mentioned for the parameter DO_y is found consistent with ER calculation sheet. **Thus, this part of CL is closed.** 2. CME has now corrected the value of η_{new} in the revised MR. The same has been checked and found consistent with ER calculation sheet. **Thus, this part of CL is closed.** 3. CME has now corrected the values of number of samples under table D.3.1 and D.3.2 of the revised MR. The same has been checked and found consistent with provided ER calculation sheet. **Thus, this part of CL is closed.** 4. CME has clarified the that there is no FAR raised during GS review. Hence, no FAR from GS review needs to be taken during this verification. **Thus, this part of CL is closed.**	

Table 3. CAR from this verification

CAR ID	01	**Section no.**	NA	**Date:** 04/03/2020
Description of CAR				
In the section A.4. of the MR, the crediting period mentioned as 11/10/2011 to 10/10/2018 is inconsistent with the corresponding CPA DD.				
Project participant response				**Date:** 23/04/2020
CME corrected the crediting periods of the CPAs and the renewal period of the PoA.				
Documentation provided by project participant				
Revised MR				
VVB assessment				**Date:** 24/04/2020
CME has now corrected the corrected the crediting period as 10/11/2011 to 09/11/2018. The same has been checked and now found consistent with corresponding CPA-DDs and PoA page on UNFCCC website. **Thus, this CAR 01 is closed.**				

Table 4. FAR from this verification

FAR ID	xx	**Section No.**		**Date:** DD/MM/YYYY
Description of FAR				
Project participant response				**Date:** DD/MM/YYYY
Documentation provided by project participant				

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VVB assessment	**Date:** DD/MM/YYYY

APPENDIX B

Certificates of Competence

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Carbon Check (India) Private Ltd.

Anubhav Dimri

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	☒	**Team Leader**	☒	**Technical reviewer**	☒
Verifier	☒	**Technical Expert**	☒	**Local Expert**[1]	☒

In the following Technical Areas:

TA 1.1	☒	**TA 3.1**	☒	**TA 5.2**	☐	**TA 9.2**	☐	**TA 13.2**	☐
TA 1.2	☒	**TA 4.1**	☐	**TA 8.1**	☒	**TA 10.1**	☐	**TA 14.1**	☐
TA 2.1	☐	**TA 5.1**	☐	**TA 9.1**	☐	**TA 13.1**	☒		

Vikash

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2019

Valid Till
24/12/2020

Revision History of the Document

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2016	Annual Revision
24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision

[1] India, South Africa

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Carbon Check (India) Private Ltd.

Tushar Eknath Choudhari

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	☒	Team Leader	☒	Technical reviewer	☐
Verifier	☒	Technical Expert	☒	Local Expert[1]	☒

In the following Technical Areas:

TA 1.1	☒	TA 3.1	☐	TA 5.2	☐	TA 9.2	☐	TA 13.2	☐
TA 1.2	☒	TA 4.1	☐	TA 8.1	☐	TA 10.1	☐	TA 14.1	☐
TA 2.1	☐	TA 5.1	☐	TA 9.1	☐	TA 13.1	☒		

Vikash

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2019

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[1] India

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Carbon Check (India) Private Ltd.

Sanjay Agarwalla

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	☒	Team Leader	☒	Technical reviewer	☒
Verifier	☒	Technical Expert	☒	Local Expert[1]	☒

In the following Technical Areas:

TA 1.1	☒	TA 3.1	☒	TA 5.2	☒	TA 9.2	☒	TA 13.2	☐
TA 1.2	☒	TA 4.1	☒	TA 8.1	☐	TA 10.1	☐	TA 14.1	☐
TA 2.1	☒	TA 5.1	☒	TA 9.1	☒	TA 13.1	☒		

Vikash

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2019

Valid Till
24/12/2020

Revision History of the Document

26/12/2014	Initial Adoption
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