

GOLD STANDARD VERIFICATION REPORT

For: Tiipaalga

REPORT NO.: GS2456,3516-3524 VER 06



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Abbreviations used in this Report

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification request
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
DNA	Designated National Authority
DR	Document Review
EF	Emission Factor
ERPA	Emission Reduction Purchase Agreement
ER	Emission Reductions
EIA	Environmental Impact Assessment
FAR	Forward Action Request
GWP	Global Warming Potential
GS	Gold Standard
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
kWh	Kilo Watt Hour
MW	Mega Watt
NC	Non-Conformity
NCV	Net Calorific Value
NGO	Non-governmental Organisation
ODA	Official Development Assistance
PDD	Project Design Document
PD	Project Developer
tCO2e	Tonnes of CO2 equivalents
UNFCCC	United Nations Framework Convention on Climate Change
BH	Borehole
GS4GG	Gold Standard for the Global Goals
ICS	Improved Cookstove
MWh	MegaWattHour
CH4	Methane
MR	Monitoring Report
N2O	Nitrous Oxide
POA	Programme of Activity
SGP	Safeguarding Principles
SDG	Sustainable Development Goal
SC	SustainCERT

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1 OBJECTIVE AND CRITERIA

1.1 Objective

Gold Standard projects must undergo independent verification of emission reductions and overall compliance with Gold Standard rules as the basis for issuance of Gold Standard Voluntary Emission Reductions (GS VERs).

The objectives of this verification are to determine if the GHG statement and other reporting information is accurate and conforms with the criteria defined in Gold Standard rules.

This report details the objectives, scope, criteria, methodology and findings of this process and a final opinion.

The Gold Standard requires that the final version of this report is published in the public domain. The client to whom this report is addressed therefore acknowledges that the final version of this report will be published unless SustainCERT (SC) are informed in writing within 1 business day following issuance of the final version to the client.

1.2 SCOPE

GHG related activity	Verification
Project Title (s)	GS1340 Efficient cookstoves in Burkina Faso - VPA-01 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-02 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-03 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-04 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-05 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-06 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-07 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-08 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-09 - tiipaalga F3PA cookstoves in Bam and Loroum GS1340 Efficient cookstoves in Burkina Faso - VPA-10 - tiipaalga F3PA cookstoves in Bam and Loroum
GS ID (s)	GS 2456, GS3516-24
GS Project Type	Improved Cook Stoves (ICS)
PoA Title (if applicable)	Efficient cookstoves in Burkina Faso

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POA ID (if applicable)

GS1340

The scope of verification covers the emissions reductions project in that is prepared in accordance with the Monitoring Report of GS 2456, 3516-24 listed above.

Consistent with Gold Standard requirements, only the following GHGs are considered within the scope of the assessment: CO₂ CH₄ N₂O.

1.3 Criteria

The criteria for this verification are defined in the following documents stated in the Monitoring Report (MR)

- GS4GG Principles & Requirements, Version 1.2, published October 2019
- 501_V2.0_PR_GHG-EMISSIONS-REDUCTIONS-SEQUESTRATION.PDF, Version 1.1, published March 2018.
- Applied methodology Gold Standard Simplified Methodology for Efficient Cookstoves - Version 1
- 201_V1.1_AR_COMMUNITY-SERVICES-ACTIVITY-REQUIREMENTS.PDF, Version 1.1, published March 2018
- 107_V1.1_PAR_PROGRAMME-OF-ACTIVITY-REQUIREMENTS.PDF, Version 1.1, published March 2018
- Design Certified VPA-PDD (s):
 - GS2456 (VPA-01): 10 - GS3516 (VPA-02): 7 - GS3517 (VPA-03): 7 - GS3518 (VPA-04): 7 - GS3519 (VPA-05): 7 - GS3520 (VPA-06): 5 - GS3521 (VPA-07): 5 - GS3522 (VPA-08): 5 - GS3523 (VPA-09): 5 - GS3524 (VPA-10): 4

Optional Requirements

- 108_V1.1_PAR_MICROSCALE-PROJECT-REQUIREMENTS.PDF, Version 1.2, published October 2019

2 TEAM COMPOSITION

Verification Team

Name	Qualification	Coverage of sectoral/technical area	Host country experience	Conducted Site visit / Remote Audit
ANURAG JUJAL	TL	<input checked="" type="checkbox"/> (Energy)	<input checked="" type="checkbox"/>	
INDRAPAL PARMAR	Verifier	<input checked="" type="checkbox"/> (Energy)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HA THANH HOANG	Expert	<input checked="" type="checkbox"/> (Energy)	<input checked="" type="checkbox"/>	-

Independent Review team and approver

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Name	Role	Coverage of technical area
SHIVRAJ SHARMA	Independent R	<input checked="" type="checkbox"/> (All)
SHIVRAJ SHARMA	Approver	NA

3 PROJECT INFORMATION

3.1 Monitoring Period

Start of Monitoring Period	01/01/2020 (ALL VPAs)
End of Monitoring period	31/12/2020 (ALL VPAs)
Total Emission Reductions, SDG 13	GS 2455 (VPA-01): 8,400 GS 3516 (VPA-02): 7,832 GS 3517 (VPA-03): 9,507 GS 3518 (VPA-04): 9,908 GS3519 (VPA-05): 8,841 GS3520 (VPA-06): 9,592 GS3521 (VPA-07): 8,535 GS 3522 (VPA-08): 9,311 GS 3523 (VPA-09): 10,000 GS 3524 (VPA-10): 10,000 Total: 91,926
Total SDG 1 (No Poverty)	No. of leader women benefitting from microcredit: 867 (across all VPAs)
Total SDG 3 (Good Health)	Reduction in respiratory related illnesses like coughing, itchy eyes, etc.: 100% (for all VPAs)
Total SDG 4 (Quality Education)	Number of training initiatives for staff involved in the programme: 1 Number of workshops carried out for women: 368
Total SDG 5 (Gender Equality)	Reduced amount of time spent on wood fuel collection: 100% Reduced amount of money spent on wood fuel purchase: 100%
Total SDG 7 (Affordable and Clean Energy)	Number of F3PA efficient cookstoves disseminated VPA 01: 8,351 VPA 02: 8,390 VPA 03: 8,536 VPA 04: 9,562 VPA 05: 8,067 VPA 06: 9,634 VPA 07: 8,522 VPA 08: 8,171 VPA 09: 8,189 VPA 10: 7,854

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	Total: 85,276
Date of MR Report	06/04/2022
Version of MR Report	3

3.2 Annual projections

Annual Average Emission Reductions (SDG 13)	GS2456 (VPA-01): 9,991 VER GS3516 (VPA-02): 9,563 VER GS3517 (VPA-03): 10,000 VER GS3518 (VPA-04): 9,995 VER GS3519 (VPA-05): 9,994 VER GS3520 (VPA-06): 10,000 VER GS3521 (VPA-07): 10,000 VER GS3522 (VPA-08): 9,994 VER GS3523 (VPA-09): 9,990 VER GS3524 (VPA-10): 9,999 VER Total: 99,526 VER
Total SDG 1 (No Poverty)	No. of leader women benefitting from microcredit: 867 (across all VPAs)
Total SDG 3 (Good Health)	Reduction in respiratory related illnesses like coughing, itchy eyes, etc.: 100% (for all VPAs)
Total SDG 4 (Quality Education)	Number of training initiatives for staff involved in the programme: 1 Number of workshops carried out for women: 368
Total SDG 5 (Gender Equality)	Reduced amount of time spent on wood fuel collection: 100% Reduced amount of money spent on wood fuel purchase: 100%
Total SDG 7 (Affordable and Clean Energy)	Number of F3PA efficient cookstoves disseminated VPA 01: 8,351 VPA 02: 8,390 VPA 03: 8,536 VPA 04: 9,562 VPA 05: 8,067 VPA 06: 9,634 VPA 07: 8,522 VPA 08: 8,171 VPA 09: 8,189 VPA 10: 7,854 Total: 85,276

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4 VERIFICATION/VALIDATION OPINION

Unmodified Opinion	<input checked="" type="checkbox"/>
Modified Opinion (see reasons below)	<input type="checkbox"/>
Adverse Opinion (see reasons below)	<input type="checkbox"/>
Disclaimer of Opinion	<input type="checkbox"/>

The project representative to whom this report is addressed is responsible for the preparation and fair presentation of GHG and other reporting information in accordance with Gold Standard rules.

SustainCERT is responsible for expressing this verification opinion on the GHG and other reporting information based on the evidence gathering procedures documented in this report. The GHG verification was planned and carried out in accordance with ISO 14064-3 (Specification with guidance for the verification and validation of greenhouse gas statements) to provide a reasonable level of assurance that the information is accurate.

Reason for Modified Opinion (if applicable)	N/A
Reason for Adverse Opinion (if applicable)	N/A
Reason for Disclaimer (not issuing) of Opinion (if applicable)	N/A

Conclusion:

SustainCERT (SC) concludes that:

The GHG emission reductions are calculated without material misstatements for the aforementioned monitoring period and has been prepared in accordance with the verification criteria and is a materially correct and fair representation of GHG other reporting information. Our opinion refers to reported project's information on GHG emissions and resulting reductions, which were determined using the valid and certified baseline, monitoring plan and other relevant documents.

Based on the information we have assessed; we can confirm that the implementation of the project resulted in the aforementioned emission reductions during the corresponding monitoring period

Authorised Signatory Name:	Shivraj Sharma – Director of Standard Certification
Signature	 <small>DocuSigned by: Shivraj Sharma 4E3DA74DBE7A462...</small>

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Date of this report approval	22/06/2022
Version of this report	01
Office Location	Luxembourg

The verification / validation of the GHG statement was conducted in accordance with ISO 14064-3 and corresponding GHG scheme.

5 METHODOLOGY

5.1 Desk Review

An initial verification documentary review was conducted by SustainCERT involving

- A review of the data and information presented in the MR to verify their completeness.
- A review of the approved monitoring plan and monitoring methodology
- An evaluation of data management and quality control system used in the generation and reporting of data and information

A Protocol was used to assess each requirement during the execution of assessment activities and is explained below.

Whenever the assessment question does not immediately lead to a conclusion, clarifications (CLs) and corrective action requests (CARs) are issued as Findings/Comments against the relevant Rule and Assessment Question.

If a Findings is closed, it will result in a conclusion of either OK, a Forward Action Request (FAR) or an Observation (OBS). If a Finding cannot be closed and a requirement cannot be shown to be met, an NC (Non-conformity) is issued.

OK, CARs, CLs, FARs, OBS and NC are further explained below:

- OK - issued when a requirement has been met.
- CAR (Corrective Action Request) - issued if one of the following occurs:
 - There is a risk that emission reductions cannot be monitored or calculated
 - Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions
 - Gold Standard requirements have not been shown to be met
- Clarification request (CL) - issued if information is insufficient or not clear enough to determine whether a requirement has been met
- Forward Action Requests (FARs) – issued to highlight issues related to implementation that require review at the next verification
- Observations (OBS) - issued where there may be a possible future non-conformity against a requirement.
- Non-Conformity (NC) – issued if a requirement has not been met and cannot be met.

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To demonstrate transparency, all Findings (along with the relevant Rule and Assessment Question) are transferred to a separate Review Feedback table to provide a written record of how they are discussed and how the conclusion was reached. A transcript of the Review Feedback is available as Appendix 1, which also includes a list of the Supporting Document (s) provided and reviewed.

5.2 Site Visit

A site visit is chosen on the basis of risk assessment.

In line with GS4GG COVID-19 Interim Measures and our risk assessment, no site visit was undertaken. Also, in the previous verifications carried out by us, no significant or material issues were identified for the VPAs. Also, no significant changes have been made to the project since the last periodic verifications.

However, a remote audit in the form of desk review and client interactions was carried out during the period September'21-June'22 to do the following.

Furthermore, a list of all the evidence checked and verified are reported in the Appendix 1 of this report.

1. Assess the design/operation of the Project
2. Interview personnel regarding the Project operation and data collection procedures.
3. Cross check reported information.

A Forward Action Request has been raised to cover onsite visit during the next periodic verification.

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Appendix: 1- CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS

Scope	Energy Only
Review Types	Verification
Corresponding Templates	Monitoring Report V1.1

Project Details	
Project/VPA Title (s) and GS ID (s)	GS2456: GS1340 Efficient cookstoves in Burkina Faso - VPA-01 - tiipaalga F3PA cookstoves in Bam and Loroum GS3516: GS1340 Efficient cookstoves in Burkina Faso - VPA-02 - tiipaalga F3PA cookstoves in Bam and Loroum GS3517: GS1340 Efficient cookstoves in Burkina Faso - VPA-03 - tiipaalga F3PA cookstoves in Bam and Loroum GS3518: GS1340 Efficient cookstoves in Burkina Faso - VPA-04 - tiipaalga F3PA cookstoves in Bam and Loroum GS3519: GS1340 Efficient cookstoves in Burkina Faso - VPA-05 - tiipaalga F3PA cookstoves in Bam and Loroum GS3520: GS1340 Efficient cookstoves in Burkina Faso – VPA- 06 - tiipaalga F3PA cookstoves in Bam and Loroum GS3521: GS1340 Efficient cookstoves in Burkina Faso - VPA-07 - tiipaalga F3PA cookstoves in Bam and Loroum GS3522: GS1340 Efficient cookstoves in Burkina Faso - VPA-08 - tiipaalga F3PA cookstoves in Bam and Loroum GS3523: GS1340 Efficient cookstoves in Burkina Faso - VPA-09 - tiipaalga F3PA cookstoves in Bam and Loroum GS3524: GS1340 Efficient cookstoves in Burkina Faso - VPA-10 - tiipaalga F3PA cookstoves in Bam and Loroum
PoA Title and GS ID	PoA Title: Efficient cookstoves in Burkina Faso GS ID: GS1340

Monitoring Period Information	
Duration of this monitoring period:	(01/01/2020) to (31/12/2020)
Crediting Period Sequence Number:	1 st Crediting period
Monitoring Period Sequence Number:	6 th Monitoring period

Review Feedback

Review Feedback Round:	i
Supporting Document (s) provided and Reviewed	<ul style="list-style-type: none"> • T-PerfCert_V1.1- MR_GS1340_GS2456_GS3516-GS3524_MP6_v1.0 • GS 1340 - VPA 01-10 - ER_MP6_v1.0 • GS1340_VPA01-10_Monitoring Survey_MP6 • GS1340_VPA1-10_list of surveyed HH_MP6 • Other supporting documents related to the monitoring parameters

Review Feedback Round:	II
Supporting Document (s) provided and Reviewed	<ul style="list-style-type: none"> • 101.5-Transition-Annex-GS4GG_GS2456_GS3516-GS3524 v2.0_clean • GS 1340 - VPA 01-10 - ER_MP6_v2.0 • GS1340 (VPA 1-10)_Internal Verification_6th M.P_Round I – Reply • GS1340_GS4GG_Transition_Review_Final_Round • T-PerfCert_V1.1- MR_GS1340_GS2456_GS3516-GS3524_MP6_v2.0_clean • T-PerfCert_V1.1- MR_GS1340_GS2456_GS3516-GS3524_MP6_v2.0_track

Review Feedback Round:	III
Supporting Document (s) provided and Reviewed	<ol style="list-style-type: none"> 1) GS1340 (VPA 1-10)_Internal Verification_6th M.P_Round II – Reply 2) GS 1340 - VPA 01-10 - ER_MP6_v3.0 3) SURVEY_FORM-VPA1 to 10-MS6-864591712_EN and FR 4) Tiipaalga_VPA1-10_MP6_Date recente_All HH(1) 5) Tiipaalga_VPA1-10_Sampling MP6 - v1.0(1)

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- 6) T-PerfCert_V1.1- MR_GS1340_GS2456_GS3516-GS3524_MP6_v3.0_clean
7) T-PerfCert_V1.1- MR_GS1340_GS2456_GS3516-GS3524_MP6_v3.0_track

Rule	Assessment Question	Findings/Comments	Developer Response
	Do the 3 SDG Impacts achieved match E.4	<u>Table -1:</u> No SDG Impact has been provided corresponding to the parameter “Smoke level reduction” on the page-6 (Table-1) of MR. Hence additional details shall be provided.	The SDG impact for the parameter “Smoke level reduction” was well provided (100%). Though in the new version of MR (MR v2 track and clean), PD increased the line spacing to ease the reading.
	Round 2	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, do the fixed ex ante values match the Design Certified PDD/VPA-DD	<u>Section D.1:</u> All <u>vintages</u> post 01/01/2021* must use AR5 Global Warming Potentials to calculate emission reductions and removals. AR4 to AR5 GWP summary: CH4 - 25 to 28 N2O - 298 to 265 All vintages pre 31/12/2020 must use AR4. As the monitoring period has only one vintage (year 2020) and hence AR4 shall be used in the emission reduction calculations. As AR5 has been used in the MR and hence appropriate corrections shall be provided in the MR.	The ER calculation file has been revised accordingly, using prior version of the parameter <i>Ef_{b,fuel, non_CO2}</i> (0.53 tCO ₂ e/tonne wood instead of 0.58). The total ER for the group of 10 VPA's is now 91,926 VER (instead of 93,537). Document: 'GS 1340 - VPA 01-10 - ER_MP6_ v2.0'/Tab 'Input'/Cell E45. Appropriate corrections with the revised totals of ER were made along the MR v2.
	Round 2	Section D.1 of the revised MR is corrected. However, in ER sheet tab “EF calculation” still uses the AR5 GWP values i.e., in cell C5 calculation. PD shall revise the calculations accordingly.	Indeed, the AR5 GWP value was present in the “EF calculation file” though it was unused for ER calculation v2.0. For the sake of clarity, a new version of ER calculation file 'GS 1340 - VPA 01-10 - ER_MP6_ v3.0' was made without any reference to AR5 GWP values.
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, do the monitored parameter boxes match the Design Certified PDD/VPA-dd	<u>Section D.2:</u> The monitoring survey started on 13/06/2021 for the current monitoring period under verification. However the last monitoring survey was initiated on 26/04/2020 as per the monitoring report of the last monitoring period. Since there is a Gap of more than 1 year between the two monitoring surveys, hence it shall be clarified as how	Due to the security instabilities in the region (see monthly security report in the North Region, March 2021), the monitoring survey could not be conducted in Q1 of 2021 as initially planned. To conduct the survey in the most relevant way, the following approach was followed:



Rule	Assessment Question	Findings/Comments	Developer Response
		the Annual Monitoring Survey requirements have been met for the monitoring parameters. Clarify.	<p>Before the monitoring survey, a sample was determined based on the state of the project database at a given sampling date (11/06/2021). Each household was assigned to a given age-group (AG) based on the number of days it has been using the F3PA cookstove up to the sampling date (renewal of the cookstove taken into account). Based on this repartition, a representative sample was drawn randomly and the corresponding households were visited. The usage parameters ($U_{p,y}$, $DF_{b, stove,y}$) are elaborated for each of the AG based on the results of the surveys. Those parameters are used with the number of days spent within each AG for the ER calculation.</p> <p>More details can be found in document : 'Tiipaalga_VPA1-10_MP6_Date recente_All HH'</p> <p>This approach is deemed valid and conservative as the survey reflects the usage habits of the different AG at the day of the survey, and not 6 months later as it would have been the case if the AG assignment was done based on the MP last day (31/12/2020).</p>
	Round 2	PD shall submit the following document Survey sampling details and 'Tiipaalga_VPA1-10_MP6_Date recente_All HH'.	<p>PD submitted a second time to SC platform the following documents:</p> <ul style="list-style-type: none"> • Sampling details: 'Tiipaalga_VPA1-10_Sampling MP6 - v1.0' • Database details & calculation of technology-days: 'Tiipaalga_VPA1-10_MP6_Date recente_All HH'
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, do the monitored parameter boxes match the Design Certified PDD/VPA-dd	<p><u>Section D.2:</u> Each of the Age-Group (AG-1, AG-2, AG-3 etc.) shall also be defined in terms of the year duration (start date and end date of year) in the MR.</p>	<p>This is not possible as the AG segmentation depends on the installation date of each F3PA cookstove. It is a characteristic intrinsic to each household: e.g. a household having its last F3PA cookstove installed on the 15/03/2018 will belong to AG 0-1 up to 14/03/2019; it will then be part of AG 1-2, and so on.</p> <p>More details can be found in document : 'Tiipaalga_VPA1-10_MP6_Date recente_All HH'</p>
	Round 2	As per para C (i) of the applied methodology prior to the verification, a usage survey for each cookstove age-group is required. Finding is open.	<p>Indeed, a distinction per age-group was done to prior to the conduct of the survey. Appropriate sample requirements were followed according to the size of each AG at the sampling date (11/06/2021), see document: 'Tiipaalga_VPA1-10_MP6_Date recente_All HH'.</p> <p>Usage parameters ($U_{p,y}$ and $DF_{b, stove,y}$) were also determined per AG during the monitoring survey, see document : 'GS1340_VPA1-10_MP6_MS_v1.0'.</p>



Rule	Assessment Question	Findings/Comments	Developer Response
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, do the monitored parameter boxes match the Design Certified PDD/VPA-dd	<p>Section D.2: Please refer to the parameter (DF_n) used in the calculation of project efficiency for a particular Age-group of the cook-stove. As per the definition of (DF_n), this is "Discount factor to account for efficiency loss of project cookstove per year of operation (Fraction). The default value for this parameter is 0.99 i.e., 1% efficiency loss/year". However it is observed from the "row 33" of the "Calculation" spreadsheet of the ERs Excelsheet that the value of "0.99" has been used for all the age groups (AG 0-1, AG 1-2, AG 2-3, AG 3-4, AG 4-5, AG 5-6). Hence 1% efficiency loss/year has not been considered for all the age groups. Please Check and provide appropriate corrections, wherever required.</p>	<p>According to the Simplified methodology for efficient cookstoves, the determination of the project cookstove efficiency is estimated as follow:</p> $\eta_{p,y} = \eta_p * (DF_n)^{y-1} * 0.94$ <p>Where the parameter DF_n represents the discount factor to account for the efficiency loss of project cookstove per year of operation. According to the methodology, the default value for this parameter is 0.99 which represents a constant loss of 1% of efficiency each year. Therefore, the parameter $(DF_n)^{y-1}$ evolves as follow:</p> <ul style="list-style-type: none"> - Year 1: $(DF_n)^{1-1} = 1$ - Year 2: $(DF_n)^{2-1} = 0.99$ - Year 3: $(DF_n)^{3-1} = 0.99^2 = 0.9801$ - Year 4: $(DF_n)^{4-1} = 0.99^3 = 0.9703$ - ... <p>Those values are used to compute the parameter $\eta_{p,y}$ along the years of the project and hence estimate the emission reductions (e.g. see file : 'GS 1340 - VPA 01-10 - ER_MP6_v2.0'/Tab 'Calculation'/Line 30/Columns H, I, J, K, L & M).</p> <p>For example, the parameter $\eta_{p,y}$ for AG 2-3 is computed as follow:</p> $\eta_{p,3} = 23.4\% * (0.99)^2 * 0.94 = 21.558\%$ <p>which is consistent with the cell K30.</p>
	Round 2	OK finding/comment is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
P&R	For Other SDGs, do the monitored parameter boxes match the Design Certified PDD/VPA-dd	<p>Section D.2: For the parameter "Number of leader women (Monitrice endogène) who benefit from microcredit", it is mentioned that "In the fourth phase of the implementation of the Tiipaalga microcredit scheme 867 montrices endogènes received 24,000,000 FCFA or 36,641 € on their microcredit account for the finance of income generating activities" in the monitoring parameter table.</p>	<p>During the last monitoring period (2019 or MP5), it was the 3rd cycle of implementation of micro-credit scheme. This cycle included 54 villages, a total of 35,451,900 FCFA was initially available at the beginning of 3rd cycle. This amount corresponds to the reinvested amount from cycle 2 (2018). At the end of 3rd cycle, the beneficiaries generated thanks to the granted money allowed to reinvest a total of 32,736,050 FCFA made available for next cycle (cycle 4).</p>



Rule	Assessment Question	Findings/Comments	Developer Response
		<p>Further the “monitoring report” of the last monitoring period has been checked and found that “In the fourth phase of the implementation of the Tiipaalga microcredit scheme 685 monitrices endogènes received 32,736,000 FCFA or 49,902 € on their microcredit account for the finance of income generating activities”.</p> <p>Since at both the places, “Fourth Phase” has been referred, however different information (24,000,000 FCFA and 32,736,000 FCFA) has been presented. Clarify.</p>	<p>More information can be found in document : ‘Rapport_Bilan_FAME-AGR_3ème cycle_Villages an1_wc’ Table 4 page 18.</p> <p>During this monitoring period (2020 or MP6), it was the 4th cycle of implementation of micro-credit scheme. This cycle included 48 villages, a total of 24,000,000 FCFA was made available at the end of 4th cycle (23/11/2020). This amount corresponds to the granted amount by tiipaalga to the 867 ‘monitrices endogènes’, it will be used to finance income generating activities during cycle 5 (2021).</p> <p>More information can be found in document : ‘Rapport_Mise en place_Micro Crédit_An4_with comments’ Table 5 page 9</p>
	Round 2	The relevant section of the MR shall be elaborated as explained here by PD to make the information consistent and transparent with the previous MR and existing MR.	Additional information on this matter was brought to revised version of MR (MRv3.0, section D.2. & D.3.).
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
P&R	For Other SDGs, do the monitored parameter boxes match the Design Certified PDD/VPA-dd	<p>Section D.2:</p> <p>The following FAR has been raised in relation to the following parameters.</p> <p>“For the parameter (“Proportion of leader women (Monitrice endogène) participating to microcredit scheme which make benefits from Income Generating Activities financed through the microcredit scheme”) and parameter (“Total benefit from Income Generating activities financed through the microcredit scheme”), it is mentioned that “The parameter is not yet available as the amount granted to leader women has been provided at the end of the monitoring period (23/11/2020)”.</p> <p>Hence the above benefits corresponding to the above two parameters shall be reported during the next monitoring period.</p>	PD acknowledges FAR 1.
	Round 2	Comment / Request is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
P&R	For Other SDGs, do the monitored parameter boxes match the Design Certified PDD/VPA-DD	<p>Section D.2:</p> <p>For the parameter “Number of workshops carried out for women”, it is mentioned in the monitoring parameter table that “In total, 10,817 participants were present during the workshops; 90% of which were women”.</p> <p>However in the same “table” provided under the monitoring parameter, the total participants are “9,691”. Clarify on the differences observed.</p>	9,691 corresponds to the number of women participants out of the 10,817. To avoid confusion, the header of the table was revised from “#participants” to “#women” in MRv2.



Rule	Assessment Question	Findings/Comments	Developer Response
	Round 2	OK Comment/ Request is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
P&R	For Other SDGs, do the monitored parameter boxes match the Design Certified PDD/VPA-DD	Section D.2: Please refer to the monitoring parameter (<i>Proportion of stove users perceiving reduced amount of time spent on wood fuel collection and/or reduced amount of money spent on wood fuel purchase</i>). The “reduced amount of money spent on wood fuel purchase: 100”, however when some wood is still used in the project scenario, then how there can be 100% reduction on the wood fuel purchase in the project scenario. Clarify.	The value “100%” corresponds to the ‘ <i>Proportion of stove users perceiving reduced amount of money spent on wood fuel purchase</i> ’ and not the ‘ <i>reduction percentage of amount of money spent on wood fuel purchase</i> ’. To avoid any confusion, PD revised the formulation of this indicator in MR v2 Section D.2.
	Round 2	OK comment/ request is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For any parameters that were sampled, has the following been demonstrated: (a) Description of implemented sampling design; (b) Collected data; (c) Analysis of the collected data; (d) Demonstration that the required confidence/precision level has been met; (e) Demonstration that the samples were randomly selected and are representative of the population	Section D.4: Please refer to the page-52, where the minimum samples size of 25 has been considered for the AG 2-3. However when the Project target population < 300: Minimum sample size shall be 30, hence the minimum sample size shall be corrected in the Table 2 of the MR.	Correction was done accordingly in Table 2 of MR v2.
	Round 2	Comment/ Request is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For any parameters that were sampled, has the following been demonstrated: (a) Description of implemented sampling design; (b) Collected data; (c) Analysis of the collected data; (d) Demonstration that the required confidence/precision level has been met;	Section D.4: The PD has mentioned on page-48 that “ <i>The parameters which need to be monitored through surveys for the 10 VPA’s are (i) $U_{p,y}$ Usage rate in project scenario p during year y; and (ii) $DF_{b,stove,y}$ Discount factor to account for the baseline stove use in project scenario p during the year y”.</i> The above monitoring parameters are corresponding to the SDG13. However there are other monitoring parameters related to other SDGs	The monitoring survey also monitors the parameters to evaluate the SDG 3 and SDG 5 indicators. Additional information was brought to Section D.4. of MR v2.



Rule	Assessment Question	Findings/Comments	Developer Response
	(e) Demonstration that the samples were randomly selected and are representative of the population	and hence clarify whether they were not monitored through sampling. Clarify.	
	Round 2	PD shall submit the filled monitoring survey questionnaire form for review and verification.	The surveys are done in a digital way using the data collection software Akvo Flow (www.akvo.org). There exists no paper form filled in as the answer are recorded via smartphones. The survey questionnaire (both French and English translation) is available in document : 'SURVEY_FORM-VPA1 to 10-MS6-864591712_EN and FR' The collected data and analysis of the answer is available in document : 'GS1340_VPA1-10_MP6_MS_v1.0'.
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For any parameters that were sampled, has the following been demonstrated: (a) Description of implemented sampling design; (b) Collected data; (c) Analysis of the collected data; (d) Demonstration that the required confidence/precision level has been met; (e) Demonstration that the samples were randomly selected and are representative of the population	<u>Section D.4:</u> For any parameters that were sampled, the following shall be demonstrated: (a) Collected data; (b) Analysis of the collected data; (c) Demonstration that the required confidence/precision level has been met; (d) Demonstration that the samples were randomly selected and are representative of the population Hence more details shall be provided in this regard.	Additional information and additional information in alignment with the finding were brought to Section D.4. MR v2 in the following manner: a) Collected data b) Sampling approach c) Analysis of collected data d) Requirements on confidence/precision level
	Round 2	OK Comment/ request is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, Is the baseline calculated correctly to match the PDD/VPA-DD? (some methodology equations calculate a net benefit without elaborating a separate baseline and project situation, this should be marked clearly where this is the case).	<u>Section E.1 and ERs Excelsheet:</u> The "number of households" for the GS3520 (VPA-06) is "3,659" as per the Section B.1 of MR. While as per the "Input" spreadsheet of the ERs Excelsheet, the total households arrive as "3,566" by summing the active households for all the Age-Groups. Clarify on the differences observed.	The number 3,659 corresponds to the number of households (units) equipped with F3PA cookstoves included in the project data base for VPA-06. On the other hand, the number of equivalent households in the emission reduction calculation file (3,566) is based on the monitored parameter Np,y, reported in section D.2. This parameter, number of equivalent households or units, is calculated based on the days of usage per age group related to one year. For each household the number of days in each age group are calculated and divided by the number of days in one year.



Rule	Assessment Question	Findings/Comments	Developer Response
			Hence, a household equipped with F3PA cookstove during 6 months of the MP would be considered as 0.5 household equivalent, this to ensure conservativeness in the ER calculations. More details can be found in document 'Tiipaalga_VPA1-10_MP6_Date recente_All HH' in Tab 'Analysis'.
	Round 2	The said justification information stated by PD can be added in relevant section of MR and ER for more transparency.	Additional clarification was brought to the component 'Measurement methods and procedure' of the monitoring indicators N _{py} in Section D.2 of revised MR (v3.0).
	Round 3	OK Finding/Comment is closed now.	

Rule	Assessment Question	Findings/Comments	Developer Response
	For SDG 13, Is the baseline calculated correctly to match the PDD/VPA-DD? (some methodology equations calculate a net benefit without elaborating a separate baseline and project situation, this should be marked clearly where this is the case).	<u>Section E.1:</u> Please refer to the "Calculation" spreadsheet of the ERs Excelsheet. It is observed that various rows are hidden and hence the Emission Reductions for each of the Age group for the VPA-06 is not visible. Hence all the rows shall be made visible in the Excelsheet.	All the lines of the ER calculation file were made visible ("ungrouped") in the document: 'GS 1340 - VPA 01-10 - ER_MP6_v2.0'.
	Round 2	OK comment/request is closed.	

Rule	Assessment Question	Findings/Comments	Developer Response
P&R	Has a like for like comparison of ex ante (estimated) and achieved SDG Impacts been provided?	<u>Section E.5:</u> Section E.5: The comparison with the ex-ante estimates to be presented for all the SDGs. As of now, only SDG13 has been presented for the comparison purpose. The PD may be refer to the approved documents including Transition Annex (if any) and provide required details.	In the approved Transition Annex ('101.5-Transition-Annex-GS4GG_GS2456_GS3516-GS3524 v2.0_clean' and 'GS1340_GS4GG_Transition_Review_Final_Round'), no ex-ante estimates are available for SDG indicators. Hence, except for SDG 13 impacts, no like-a-like comparison with approved PDD can be done.
	Round 2	OK comment/request is closed.	

Appendix: 2 - FORWARD ACTION REQUESTS

Forward Action Request # 1: As per GS4GG PoA requirements v1.2 (2019) para 9.1.2 'A *microscale VPA must be subjected to an Objective Observer appraisal and site visit at least once within three years of date of VPA inclusion or start of crediting period, whichever is later.*' an onsite visit will be conducted for the next periodic verification.

Prepared/changed by: Eric Tolcach	Approved by: Javier Castro	Page 21 of 21
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