GOLD STANDARD VERIFICATION REPORT

For: CO2balance UK Ltd

REPORT NO.: GS7475-84VER03

SUSTAINCERT
KNOW YOUR IMPACT

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

TPDDTEC	Technologies and Practices to Displace Decentralised Thermal Energy Consumption
UN	United Nations
VVB	Validation and Verification Body
VER	Verified Emission Reduction
VPA	Voluntary Project Activity

Table of Contents

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)	GS1247 VPA 203 Sierra Leone Safe Water GS1247 VPA 204 Sierra Leone Safe Water GS1247 VPA 205 Sierra Leone Safe Water GS1247 VPA 206 Sierra Leone Safe Water GS1247 VPA 207 Sierra Leone Safe Water GS1247 VPA 208 Sierra Leone Safe Water GS1247 VPA 209 Sierra Leone Safe Water GS1247 VPA 210 Sierra Leone Safe Water GS1247 VPA 211 Sierra Leone Safe Water GS1247 VPA 212 Sierra Leone Safe Water
Project ID (s) (i.e.: GS-ID)	GS7475-84
GS Project Type	Safe Water Supply – Community Borehole Project (Community Service Activity)
PoA Title (if applicable)	IMPROVED KITCHEN REGIMES MULTI COUNTRY POA
POA ID (if applicable)	GS1247

The scope of verification covers the emissions reductions project in that is prepared in accordance with the Monitoring Report of the GS ID (s) listed above.

Consistent with Gold Standard requirements, only the following GHGs are considered within the scope of the assessment: CO_2 CH_4 N_2O.

2 TEAM COMPOSITION

Validation/Verification Team

Name	Qualification	Coverage of sectoral/technical area	Host country experience	Conducted Site visit / Remote Audit
Neha Rao	TL	☑ (All)	☑	☑
Sandeep Kanda	V	☑ (Energy)	☑	-

Independent Review team and approver

Name	Role	Coverage of technical area
Shivraj Sharma	**Independent R**	**☑ (All)**
Shivraj Sharma	**Approver**	**N/A**

3 PROJECT INFORMATION

3.1 Monitoring Period

Start of Monitoring Period	19/05/2021
End of Monitoring period	18/05/2022
Total Emission Reductions	51465 tCO2e
Total SDG 3: Good health & well-being	Reduction in incidences of stomach related illnesses or waterborne diseases: 70% (for all VPAs)
Total SDG 5: Gender Equality	Reduction in time spent collecting water: 61% (for all VPAs)
Total SDG 6: Clean water & sanitation	Additional people gaining access to safe water GS7475: 3,631 GS7476: 3,631 GS7477: 3,631 GS7478: 3,352 GS7479: 3,631 GS7480: 3,631 GS7481: 3,631 GS7482: 3,910 GS7483: 3,910 GS7484: 3,910 Total: 36,868
Date of MR Report	09/09/2022
Version of MR Report	02

3.2 Annual projections

Annual Average Emission Reductions (SDG 13)	N/A
Total SDG x	N/A
Total SDG y	N/A
Total SDG z	N/A

4 VERIFICATION/VALIDATION OPINION

Unmodified Opinion	☒
Modified Opinion (see reasons below)	☐
Adverse Opinion (see reasons below)	☐
Disclaimer of Opinion	☐

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:

Considering the following information and the one provided in this report:

GHG-related activity	**Verification**
Project Title (s)	GS1247 VPA 203 Sierra Leone Safe Water GS1247 VPA 204 Sierra Leone Safe Water GS1247 VPA 205 Sierra Leone Safe Water GS1247 VPA 206 Sierra Leone Safe Water GS1247 VPA 207 Sierra Leone Safe Water GS1247 VPA 208 Sierra Leone Safe Water GS1247 VPA 209 Sierra Leone Safe Water GS1247 VPA 210 Sierra Leone Safe Water GS1247 VPA 211 Sierra Leone Safe Water GS1247 VPA 212 Sierra Leone Safe Water
Start of Monitoring Period	19/05/2021
End of Monitoring period	18/05/2022

Date of MR Report	09/22/2022
Version of MR Report	2.0

Verification period is equal to the monitoring star and end dates mentioned above.

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

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
19/05/2021 to 31/12/2021	*GS 7475: 3931 GS 7476: 4048 GS 7477: 4121 GS 7478: 3847 GS 7479: 2768 GS 7480: 4051 GS 7481: 3435 GS 7482: 4092 GS 7483: 4328 GS 7484: 4089*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0 GS 7479: 0 GS 7480: 0 GS 7481: 0 GS 7482: 0 GS 7483: 0 GS 7484: 0*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0 GS 7479: 0 GS 7480: 0 GS 7481: 0 GS 7482: 0 GS 7483: 0 GS 7484: 0*	*GS7475: 3052 GS7476: 3143 GS7477: 3199 GS7478: 2986 GS7479: 2149 GS7480: 3145 GS7481: 2666 GS7482: 3177 GS7483: 3360 GS7484: 3174 Total: 30051*
01/01/2021 to 18/05/2021	*GS 7475: 2717 GS 7476: 2717 GS 7477: 2717 GS 7478: 2508 GS 7479: 2717 GS 7480: 2717 GS 7481: 2717 GS 7482: 2926 GS 7483: 2926 GS 7484: 2926*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0 GS 7479: 0 GS 7480: 0 GS 7481: 0 GS 7482: 0 GS 7483: 0 GS 7484: 0*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0 GS 7479: 0 GS 7480: 0 GS 7481: 0 GS 7482: 0 GS 7483: 0 GS 7484: 0*	*GS7475: 2109 GS7476: 2109 GS7477: 2109 GS7478: 1947 GS7479: 2109 GS7480: 2109 GS7481: 2109 GS7482: 2271 GS7483: 2271 GS7484: 2271 Total: 21414*
Total	*GS 7475: 6648 GS 7476: 6765 GS 7477: 6838 GS 7478: 6355*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0*	*GS 7475: 0 GS 7476: 0 GS 7477: 0 GS 7478: 0*	*GS7475: 5161 GS7476: 5252 GS7477: 5308 GS7478: 4933*

	GS 7479: 5485 *GS 7480: 6768* *GS 7481: 6152* *GS 7482: 7018* *GS 7483: 7254* *GS 7484: 7015*	*GS 7479: 0* *GS 7480: 0* *GS 7481: 0* *GS 7482: 0* *GS 7483: 0* *GS 7484: 0*	*GS 7479: 0* *GS 7480: 0* *GS 7481: 0* *GS 7482: 0* *GS 7483: 0* *GS 7484: 0*	*GS7479: 4258* *GS7480: 5254* *GS7481: 4775* *GS7482: 5448* *GS7483: 5631* *GS7484: 5445* *Total: 51465*

The conclusion is reached based on the following criteria:

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

- GS4GG Principles & Requirements
- GS4GG Stakeholder Consultation Requirements & Guidelines
- GS4GG Safeguarding Principles & Requirements
- GS4GG GHG-Emissions-Reduction-Sequestration-Product-Requirements
- Design Certified PDD (s) version 03

Optional Requirements
- GS TPDDTEC v 1.

Authorised Signatory Name:	Shivraj Sharma – Director of Validation & Verification
Signature	DocuSigned by: Shivraj Sharma 4E3DA74DBE7A462...
Date of this report approval	20/02/2023
Version of this report	01
Office Location	Luxembourg

The verification 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

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.

To demonstrate transparency, all Findings (along with the relevant Rule and Assessment Question) are transferred to a separate Review Feedback table (shown below) 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.

It was determined during our Risk Analysis that a site was not required because we undertook the previous verification and no significant changes have been made to the project since this verification. Also, considering that a site visit was conducted for the previous monitoring period during 27/12/2020 to 07/01/2021 and following the GS4GG Covid-19 Interim Measures, no site visit was therefore undertaken.

However, in line with the GS4GG Remote Audit & Site Visit Requirements, a remote audit via video calls and desk review was carried out from July-December 2022 to do the following:

1. Assess the design/operation of the Project
2. Interview personnel and stakeholders regarding the Project operation and data collection procedures.
3. Cross check reported information with evidence observed on site.

Appendix: 1- CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS

GS1247 VPA 203 Sierra Leone Safe Water (GS 7475)
GS1247 VPA 204 Sierra Leone Safe Water (GS 7476)
GS1247 VPA 205 Sierra Leone Safe Water (GS 7477)
GS1247 VPA 206 Sierra Leone Safe Water (GS 7478)
GS1247 VPA 207 Sierra Leone Safe Water (GS 7479)
GS1247 VPA 208 Sierra Leone Safe Water (GS 7480)
GS1247 VPA 209 Sierra Leone Safe Water (GS 7481)
GS1247 VPA 210 Sierra Leone Safe Water (GS 7482)
GS1247 VPA 211 Sierra Leone Safe Water (GS 7483)
GS1247 VPA 212 Sierra Leone Safe Water (GS 7484)

Internal Verification Form for GS Micro Scale Projects and Micro VPAs under Gold Standard for the Global Goals

Project summary	
Project Type:	Energy Efficiency-Domestic
Micro Scale Limit:	10000
Project Location:	Sierra Leone
Impact Methodology Applied:	TPDDTEC, Ver. 1.0
Date of Project Design Certification:	10/02/2020
Start Date of Crediting Period:	19/05/2019
Date of Last OO visit	27/12/2020 to 07/01/2021
PoA Title and GS ID (for Micro VPA):	GS1247 Improved Kitchen Regimes Multi-Country POA
Project details: The Micro-Scale VPA Sierra Leone Safe Water project will support the provision of safe water using borehole technology to hundreds of households within the Republic of Sierra Leone. By providing safe water, the project will ensure that households consume less firewood during the process of water purification and as a result there shall be a reduction of carbon dioxide emissions from the combustion process.	

Sierra Leone is a largely rural country where households typically use wood fuel on inefficient three stone fires to purify their drinking, cleaning and washing water. This process results in the release of greenhouse gas emissions from the combustion of wood - this can be avoided if a technology that does not require fuel (wood or fossil) supplies clean water desired by households.
Many existing boreholes were established by government, community groups or community-based organizations (CBOs) and have fallen into disrepair because maintenance programmes have been poorly managed or proven too expensive. CO2balance will be working in partnership with the local NGO, Community Organization for Development and Empowerment – Sierra Leone (CODE-SL). CO2balance and CODE-SL will work with the government and communities in Sierra Leone to identify broken down boreholes and rehabilitate them so that they deliver clean, safe water. The capacity of communities to maintain their boreholes will also be supported through the project to ensure that the water keeps flowing. The boreholes included under the project will be powered entirely by emission-free technologies such as hand-powered pumps. The depth of the boreholes will be limited to 100m or less.
The number of boreholes per VPA will be limited by the amount of pure water supplied by each unit; based on ex ante calculations, the maximum number of boreholes that can be rehabilitated in one VPA to achieve 10,000 tCO2e is approximately 6, however, the exact number will be determined once actual survey data has been collected. CO2balance and CODE-SL will rehabilitate the boreholes and deliver the maintenance programme for all the boreholes included in the project activity to ensure that the quality of the water delivered by the boreholes is fit for human consumption for the entire length of the project, which will be a minimum of five years.
The project is funded by marketing the anticipated carbon credits from the wood savings to ethical investors, so borehole owners must agree to transfer the emissions reductions over to CO2balance in return for them supplying the work to renovate the boreholes. This project will be developed under the Gold Standard carbon credit body, which in addition to checking that the carbon credits from this project are real, also measures local social, environmental and economic impact.

Monitoring Period Information	
Duration of this monitoring period:	19/05/2021 to 18/05/2022
Crediting Period Sequence Number:	1st
Monitoring Period Sequence Number:	3rd
SDG Impacts (min 3):	
SDG 3: Good Health and Well-being	70% reduction in incidences of stomach related illnesses or water-borne diseases
SDG 5: Gender Equality	61% reduction in time spent collecting water
SDG 6: Clean Water and Sanitation	36,868 additional people gaining access to safe water
SDG 13: Climate Action	51,465 tCO2e (For all VPAs GS7475-84)
Product Totals:	VER (51,465 tCO2e) GS-CER ( ) GS-REL ( )
Vintage Break	
(19/05/2021) to (31/12/2021)	30,051 tCO2e
(01/01/2022) to (18/05/2022)	21,414 tCO2e

OO Assigned	Yes ☐	No ☒

Review Feedback Round:	i
Version number of the PDD	03
Completion date of version	
Supporting Document (s) provided and Reviewed (round 1)	• Monitoring Report (SL_MP3-MP2_MR_v1.docx) • ER Calculation Sheet (SL_MP3-MP2_ER Calcs_CAPPED_v1.xlsx) • Other Document 1 (2022 SL US_v5.xlsx) • Other Document 2 (SL P1_2 Random Sample 2022 process.xlsx) • Other Document 3 (User List (CONFIDENTIAL).xlsx)
Supporting Document (s) provided and Reviewed (Final round)	• 2022 SL US_v6 (CONFIDENTIAL) • SL_MP3-MP2_ER Calcs_CAPPED_v3 • SL_MP3-MP2_MR_v3_CLEAN • Q4_2021MVs.xlsx • Q3_2021MVs.xlsx • Q2_2021MVs.xlsx • Q1_2021MVs.xlsx • 2022 SL WCFT (CONFIDENTIAL).xlsx • 2022 SL PS_v2 (CONFIDENTIAL).xlsx • KON-MP3_2_WQTS.pdf • KAI-MP3_2_WQTS.pdf • KAI-MP3_2_WQTS.pdf

Decision:

Rejected	☐
Request for clarifications and /or corrective action	☐
To be submitted for external verification	☐
Verified	☒

Review Results: Please respond to the following comments and/or requests for additional information and update your project documentation where needed.

Sections	Clarifications and/or corrective action needed	Response by Project Representative
Key Project Information	Please clarify and correct the Version of POA-DD applicable to this monitoring report stated as 'GS1247 IKR Micro PoA-DD CP2 v10' **The Comment/Request is closed.**	MR corrected
Key Project Information	Please clarify and correct the date of project design certification stated as 24/02/2020 whereas on the SustainCert App it is cited as 10/02/2020. **The Comment/Request is closed.**	Date in MR has been corrected.
Key Project Information	Please correct the monitoring period number as it pertains to the VPA(s) and not the phased implementation within the VPA(s). **The Comment/Request is closed.**	MR has been corrected
Table 1	Please clarify and correct the values stated in the bracket under the column 'Amount Achieved'. **The Comment/Request is closed.**	As per previous guidance, bracketed values indicate uncapped ERs
Table 1	The emission reduction numbers are to be corrected applying round down function. **The Comment/Request is closed.**	ERs have been corrected in Table 1 and corresponding values in latest version of 'SL_MP3-MP2_ ER Calcs_CAPPED.xlsx'
Table 2	Please correct the start date for 2022 vintage, currently indicated as 01/01/2021. **The Comment/Request is closed.**	MR Corrected

Sections	Clarifications and/or corrective action needed	Response by Project Representative
Table 2	The emission reduction numbers are to be corrected applying round down function to each vintage. **The Comment/Request is closed.**	ERs have been corrected in Table 2 and corresponding values in latest version of 'SL_MP3-MP2_ ER Calcs_CAPPED.xlsx'
A.1	The section indicates that '….*all boreholes were checked on a quarterly basis….All boreholes can be confirmed as operational with only a few minor problems, that needed maintenance and or repairs. Common problems were low water discharge, disconnected rods and broken pump head, all which could be repaired without detriment to the water supply*.'. Please clarify and provide the number of days when the boreholes were not operational during the monitoring period and how it has been accounted. **The Comment/Request is closed.**	Section has been updated to include Non-functional days of boreholes and description of how these have been accounted for.
B.1.1	Please indicate as to how the FARs raised during validation and previous verifications have been addressed too. **The Comment/Request is closed.**	Validation FAR #1: Satisfied during last verification Validation FAR #2: Satisfied during last verification and BANG review closure, caps have been maintained Validation FAR #3: Not Applicable until CP renewal Validation FAR #4: Satisfied during last verification Verification FAR #1: Usage Rate calculation incorporates seasonality and approach has been agreed by SC Verification FAR#2: Section B.1 updated to include more description on maintenance programme. Parameter box updated to included %downtime per VPA
D.2	Please clarify the basis for arriving at the value of Total time spent collecting water per household per day in project 'Tp,y' as 28.8 minutes. Also acknowledging the survey question 'On average how long do you wait at the borehole each day? (minutes)?' in the file '2022 SL US_v5'. **The Comment/Request is closed.**	Please see latest version of '2022 SL PS.xlsx' Report Tab Cell I5.
D.2	Please submit the water quality test reports from the indicated Kenema water quality laboratory, part of the ministry of water resources government department. **The Comment/Request is closed.**	Submitted please see 'KEN-MP3_2_WQTS.pdf', 'KAI-MP3_2_WQTS.pdf', and 'KON-MP3_2_WQTS.pdf' for evidence.

Sections	Clarifications and/or corrective action needed	Response by Project Representative
D.2	The number of project technology days are to be corrected acknowledging the number of days and also the failure days too. **The Comment/Request is closed.**	Project Technology days already consider failure days. Details of post processing of this value are indicated in the Comment section of these parameter. Failure days are indicated in the final parameter box. Full information per borehole can be found in the latest version of 'SL_MP3-MP2_ ER Calcs_CAPPED.xlsx'
D.2	The number of usage rate 'Up,y' is to be corrected taking into account any correction in the seasons and daily cap applied for the corresponding usage. **The Comment/Request is closed.**	Current calculation of Up,y already takes these factors into account
D.2	Please clarify and correct the cap value opted as 7.5 l/p/d as this is for total amount of treated water for consumption per person per day, including water needed for cooking. **The Comment/Request is closed.**	As project monitors 'raw water boiled after introduction of water treatment technology', the correct cap of 7.5 l/p/d has been applied as per the Revision to "Technologies and Practices to displace decentralized thermal energy consumption" methodology for TPPTDEC v1.
D.2	Please clarify as to how the value of quantity of safe water boiled in the project scenario p during the year y using the zero or low emissions clean water supply technology 'Qp,cleanboil,y' has been arrived as zero. **The Comment/Request is closed.**	Parameter is calculated from the WCFT, see '2022 SL WCFT.xlsx' for details.
D.2	Please clarify as to how the value of quantity of the raw or unsafe water that is still boiled after installation of the water treatment technology 'Qp,rawboil,y' has been arrived as zero. **The Comment/Request is closed.**	Parameter is calculated from the WCFT, see '2022 SL WCFT.xlsx' for details.
D.2	Please clarify and provide basis for arriving at the number of days a particular borehole was non-functioning during year y. **The Comment/Request is closed.**	Non-functioning days are calculated as the period in which a particular boreholes is considered to be non-functioning (as determined by maintenance visits) or not providing safe water (as determined by Water Quality Testing). Parameter box updated to include this statement.
E.4	For SDG 13 corrections of actual values based on comments above are to be carried out. **The Comment/Request is closed.**	Table updated and corresponding values in latest version of 'SL_MP3-MP2_ ER Calcs_CAPPED.xlsx'
E.5	The total ex ante estimated value for SDG 13 is to be corrected. Also, the bracketed values in the column presenting the actual	Table updated and corresponding values in latest version of 'SL_MP3-MP2_ ER Calcs_CAPPED.xlsx', bracketed values represent uncapped ERs as per previous guidance

Sections	Clarifications and/or corrective action needed	Response by Project Representative
	values are to be clarified and corrected, apart from corrections of actual values based on comments above. **The Comment/Request is closed.**	
SL_MP3-MP2_ER Calcs_CAPPED_v1	The Number of Crediting Days in 2021 has been stated incorrectly as 226 falling short for a day. **The Comment/Request is open. Please check cell X5 of 'SL_MP3-MP2_ER Calcs_CAPPED_v1' excel file tab 'Total PTDs'** **The Comment/Request is closed.**	Please indicate where this issue occurs. ER calcs have been correctly updated (now showing 277 days), associated PTD calculations and ERs have also been updated.
SL_MP3-MP2_ER Calcs_CAPPED_v1	Please clarify and substantiate the zero failure days in 2022. **The Comment/Request is closed.**	The stated value is correct. No maintenance issues or Water Quality failures were recorded during the Q1 2022 visits. Please see 'KEN-MP3_2_WQTS.pdf', 'KAI-MP3_2_WQTS.pdf', and 'KON-MP3_2_WQTS.pdf', 'Q2_2021MVs.xlsx', 'Q3_2021MVs.xlsx', 'Q4_2021MVs.xlsx' and 'Q1_2022MVs.xlsx' for details and evidence.
2022 SL US_v5	Please clarify and provide the basis of considering 7 months as the length of rainy season and correspondingly 5 months as the length of dry season. **The Comment/Request is closed.**	This information was provided by the local project partner, based on expert local opinion.
2022 SL US_v5	Please clarify and correct the basis for arriving at the crediting activities calculated for 1) Drinking, 2) Basic Personal Hygiene, 3) Food Preparation, then averaged, acknowledging that as per the methodology '*…a cap of 7.5l/p/d is applied on the total amount of treated water for consumption per person per day, including water needed for cooking. In this situation the definitions of Lbl,i,y and Lpj,i,y remain as described in the methodology. b. Do NOT monitor the raw water boiled in the project situation and apply a cap of 6 l/p/d is applied on the amount of water treated by the water treatment technology for Drinking water, hand washing and food washing.*' **The Comment/Request is closed.**	As stated earlier, the cap of 7.5 l/p/d has been correctly applied.

Sections	Clarifications and/or corrective action needed	Response by Project Representative
2022 SL US_v5	Please clarify the basis for arriving at the volume weightings for borehole and other sources noting that the former is linked to the same cell thereby giving 100% as the output as against the latter. **The Comment/Request is open. Clarify the source of these numbers, is it from the main Usage survey questionnaire.** **The Comment/Request is closed.**	CAR is unclear, can the reviewer please reference particular cells where this issue is present and expand on the issue. Regarding the Usage Rate, the calculation in v5 was to include appreciation for the different volumes of water collected from borehole and non-borehole sources. Upon review of the calculation based on this comment we determined that this calculation was incorrect. Please see attached v6 of the Usage Survey. In this version the volume weighting has been removed. We have however adjusted the calculations in Analysis Tab BG165, BW165, CM165, and DC165. We have adjusted the values to also consider the usage of water for non-crediting activities (which reduces the weighting of crediting activities). This is conservative as it is reasonable to assume that the identified non-crediting activities (particularly water for crops and water for livestock) require a greater volume of water than the 7.5 litres given to crediting activities. The ERs have also been updated with this new value (82.79% to 81.73%).

Appendix: 2 - FORWARD ACTION REQUESTS

Forward Action Requests

N/A