

Verification and certification report for Gold Standard programme of activity

BASIC INFORMATION					
Title and GS reference number of Programme of activity	(GS1247) : Im	proved Kitchen Regime	es Multi- Country PoA,		
Scale of the project activity	Large-scale				
	Small-scale				
	Micro-S	Scale			
Version number of the verification and certification report	1.1				
Completion date of the verification and certification report	10/04/2024				
Monitoring period number and duration	Monitoring per	riod Number 2 nd			
of this monitoring period	GS10735: 01/08/2021 – 31/07/2022 VPA 256 Northern Ethiopia Community Safe Water (including both the days)				
	Monitoring period Number 2 nd				
	GS10736: 01/08/2021 – 31/07/2022				
	VPA 257 Northern Ethiopia Community Protected Springs				
		The days			
	Monitoring per	riod Number 1 st			
	GS10737: 25/0	06/2021- 31/07/2022	ty Drotootod Chrings		
	(including both	the days)	ly Protected Springs		
Version number of the monitoring report to which this report applies	GS10735: Vers GS10736: Vers GS10737: Vers	sion 07 dated :08/04/20 sion 07 dated :08/04/20 sion 07 dated :08/04/20	24 24 24		
Crediting period of the project activity					
corresponding to this monitoring period	Project ID	Crediting Period Start Date	Crediting Period End Date		
	GS10735	04/07/2020	03/07/2025		
	GS10736	29/06/2020	28/06/2025		
	GS10737	30/06/2021	29/06/2026		
Project representative(s)	CO2 balance l	JK ltd.			
Host Party	Federal Demo	cratic Republic of Ethio	pia		
Applied methodologies and standardized	Technologies a	and Practices to displac	e decentralized therm	al	
baselines	energy consun	nption" methodology (T	PDDTEC) v.3.1		

Mandatory sectoral scopes	03- Energy Demand				
Conditional sectoral scopes, if applicable	NA				
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	GS10735 : 10,000 tCO2e GS10736 : 10,000 tCO2e GS10737 : 10,000 tCO2e Total : 30,000 tCO2e				
Certified amount of GHG emission reductions or GHG removals for this monitoring period	GS10735 GS10736 GS10737	GS10735 : 8,532 tCO2e GS10736 : 10,000tCO2e GS10737 : 3,402 tCO2e			
SDG Impacts:	SDGs	Values estimated in ex	Actual values ¹		
	0200	ante calculation of approved PDD for this monitoring period	achieved during this monitoring period		
	SDG 13	GS10735: 10,000 tCO2e GS10736: 10,000 tCO2e GS10737: 10,000 tCO2e Total: 30,000 tCO2e	GS10735: 8,532 tCO2e GS10736: 10,000tCO2e GS10737: 3,402 tCO2e Total: 21,934 tCO2e		
	SDG 3	Number of additional people consuming safe water: GS10735: 1,053 GS10736: 1,044 GS10737: 1,044	Number of additional people consuming safe water: GS10735: 1,089 GS10736: 1,159 GS10737: 586		
	SDG 5	Reduction in time spent collecting water: 0.5 hours	Reduction in time spent collecting water: GS10735: 0.47 GS10736: 0.31 GS10737: 0.31		
	SDG 6	Additional people gaining access to safe water: GS10735: 5,793 GS10736: 5,741 GS10737: 5,741	Additional people gaining access to safe water: GS10735: 6,323 GS10736: 6,728 GS10737: 3,400		
Name and GS reference number of the VVB	E-0052: (Carbon Check (India) Private	e Ltd.		
Name, position and signature of the approver of the verification and certification report	Buya	Syman			
	Priya Su	man, Compliance Officer			

¹ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

SECTION A. Executive summary

Carbon Check (India) Private Ltd. (CCIPL) is performing the 2nd and 1st periodic verification of the GS POA titled.

"Improved kitchen Regimes Multi-country POA(GS1247)" GS1247 VPA 256 Northern Ethiopia Community Safe Water (GS10735), GS1247 VPA 257 Northern Ethiopia Community Protected Springs (GS10736), GS1247 VPA 258 Northern Ethiopia Community Protected Springs (GS10737) for the Monitoring period

GS10735: 01/08/2021 - 31/07/2022 (including both the days)

GS10736: 01/08/2021 – 31/07/2022 (including both the days)

GS10737: 25/06/2021- 31/07/2022 (including both the days)

The project activity involves rehabilitating non-functioning water points to provide villages with a source of safe water within the provinces of Ethiopia. The start date of the project activity is.

Project ID	Start Date	Crediting Period Start Date	Crediting Period End Date
GS10735	03/07/2020	04/07/2020	03/07/2025
GS10736	28/06/2020	29/06/2020	28/06/2025
GS10737	29/06/2021	30/06/2021	29/06/2026

According to the POA&VPA- DD /B03/ & MR /01/

"GS1247 VPA 256 Northern Ethiopia Community Safe Water (GS10735),GS1247 VPA 257 Northern Ethiopia Community Protected Springs (GS10736),GS1247 VPA 258 Northern Ethiopia Community Protected Springs (GS10737),the overall objective of the VPA is to contribute to the achievement of the Sustainable Development Goals (SDGs) under SDG 3, SDG 5, SDG 6, and SDG 13 by providing safe water, the project will ensure that households consume less solid fuel(firewood) during the process of water purification and as a result there shall be a reduction of carbon dioxide emissions from the reduction of combustion of firewood.

This report summarises the findings of the verification of the project, performed on the basis of Gold Standard for global goals (GS4GG) /B02/, as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the Gold Standard (GS). Verification is required for all registered GS project activities intending to confirm their achieved emission reductions and proceed with request for issuance of VERs. This report contains the findings and resolutions from the verification and a certification statement for the verified emission reductions.

Verification is the periodic independent review and ex-post determination of both quantitative and qualitative information by a Validation & Verification body (VVB), of the monitored reductions in GHG emissions under SDG 13 including the achievement of other SDGs mentioned above that have occurred as a result of the project activity during a defined monitoring period.

Certification is the written assurance by a Validation & Verification body (VVB) that, during a specific period, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and certify achievement of SDGs reported for the: "GS1247 VPA 256 Northern Ethiopia Community Safe Water (GS10735), GS1247 VPA 257 Northern Ethiopia Community Protected Springs (GS10736), GS1247 VPA 258 Northern Ethiopia Community Protected Springs (GS10736), GS1247 VPA 258 Northern Ethiopia Community Protected Springs (GS10737) in the host country "Ethiopia" for the period for the Monitoring period. GS10735: 01/08/2021 – 31/07/2022 (including both the days) GS10736: 01/08/2021 – 31/07/2022 (including both the days) GS10737: 25/06/2021 - 31/07/2022 (including both the days)

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. CCIPL's objective is to perform a thorough, independent assessment of the registered project activity.

In particular, the monitoring plan, monitoring report and the project's compliance with relevant GS and Host Party criteria are verified in order to confirm that the component project has been implemented in accordance with the previously registered project design/B03/ and conservative assumptions, as documented. It is also confirmed if the monitoring plan is following the registered VPA-DD /B03/ and the approved monitoring methodology /B01/.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered VPA-DD /B03/
- To verify the implemented monitoring plan with the registered VPA-DD /B03/ and applied baseline and monitoring methodology /B01/.
- 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 is sufficiently supported by evidence.

The verification shall ensure that the reported emission reductions /02/ are complete and accurate in order to be certified.

Verification process:

The verification comprises a review of the monitoring report /01/ over the monitoring period from GS10735: 01/08/2021 – 31/07/2022 (including both the days) GS10736: 01/08/2021 – 31/07/2022 (including both the days) GS10737: 25/06/2021- 31/07/2022 (including both the days) and based on the registered VPA-DD /B03/ as part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet /02/, monitoring methodology /B01/, and all related evidence provided by project participants.

Remote interviews of project representatives were done only, no onsite inspections were performed during this verification process. GS approved deviation has been taken by the PP to execute the projects on desk review basis.

<u>On-site visit/remote inspection exclusion justification</u>: This project has recently approved for a deviation request to deviate from a physical site visit requested by the ongoing Verification reviewing VVB, in place of a remote audit due to the ongoing the civil conflict directly in the project area so project developer has requested deviation against the remote audit as the situation on the ground has since escalated and does not allow for an effective or safe remote audit to be conducted. Mobile phone networks and internet have been down in the region for the last months. A standard desk-based review is requested in its place for this verification.

Conclusion:

The verification team assigned by the Validation & Verification body (VVB) concludes that the monitoring report /01/, meet all relevant requirements of the Gold Standard (GS) as per the requirements of GS4GG /B02/. The verification has been conducted in-line with the GS4GG requirements.

The project activity was correctly implemented according to the selected monitoring methodology /B01/, monitoring plan and the registered VPA-DD /B03/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. The following table provides the resulted emission reduction from the project as verified through the document review and remote interviews by the verification team.

VPA NO	2021 vintage	2022 vintage	VERs
VPA 256	2,913	5,619	8,532

VPA 257	4,192	5,808	10,000
VPA 258	945	2,457	3402
TOTAL			
EMISSION			
REDUCTION	8,050	13,884	21,934

CCIPL as a Validation & Verification body (VVB) is therefore pleased to issue a positive verification opinion expressed in section F of this report.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	No. Role		Last name First name		Affiliation	Involvement in			
		Type of resource			central or other office of VVB or outsourced entity)	Desk/document review	On-site inspection	Interview s	Verificationfindings
1.	Team Leader / Verifier / Technical Expert	IR	Sharma	Harish	CCIPL	X	N/A	NA	Х
2.	Trainee Assessor	IR	Yadav	Shalini	CCIPL	Х	N/A	NA	Х

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g.,name of central or other office of VVB or outsourced entity)
1.	Technical reviewer	IR	С	Indumathi	CCIPL
2.	Approver	IR	Suman	Priya	CCIPL

SECTION C. Means of verification.

C.1. Desk/document review.

The verification was performed based on the review of the Monitoring report /01/ and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology /B01/. Documents reviewed or referenced during the verification are listed in Appendix 3 of the report.

C.2. On-site inspection

This project has recently approved for a deviation/13/ request to deviate from a physical site visit requested by the ongoing Verification reviewing VVB, in place of a remote audit due to the ongoing the civil conflict directly in the project area so project developer has requested deviation/13/ against the remote audit as the situation on the ground has since escalated and does not allow for an effective or safe remote audit to be conducted. Mobile phone networks and internet have been down in the region for the last months. A standard desk-based review is requested in its place for this verification.

PP has requested the deviation for the remote audit which has been approved by the GS however due to ongoing military tension in the country PP has again seek a deviation /13/request to conduct the verification activity on the desk review bases only without any physical sites and it was informed to VVB that it was not possible to conduct the remote audit. On the request of forementioned request on dated 24/11/2023 on this approval VVB has verified projects on the basis of the Desk review, interviews with the project representative team, ground team and the team involved.

Furthermore, VVB has done the assessment on desk review basis however the VVB has interviewed the PP and implementation team remotely, Remote Audit Requirements and Procedures, version 1.0/B06/ for conducting the remote interview in accordance with the requirements provided in the §3.1.1(b) of the Remote Audit Requirements and Procedures, version 1.0 /B06/.

Sr. No	Identification of potential risks	Mitigation measures	Risk Mitigated
1.	Risk associated to verify project implementation and operation with respect to the registered/included documents (PDD/PoA DD, CPADD)	During desk review by means of document proofs (as feasible) and real time evidence like , GPS coordinates of water points photographs and logbooks can be checked, the name plate which includes capacities can be checked. Cross checking the same through other relevant documents such as statutory clearances.	⊠ Yes □ No
		Logbooks can be checked on sample basis, either synchronously (in real time) or asynchronously (when applicable) during Desk review. screenshot of the logbooks can also be checked.	
2	Risk associated to verify implemented monitoring plan with the registered/included documents (PDD/PoA-DD, VPA-DD) and applied baseline and monitoring methodology.	This risk can be minimized /mitigated by documents review to cross check the Monitoring parameters described in certified versions of POA-DD / VPA-DD vis-à-vis their monitoring equipment/procedures and also to check records like logbooks, /12/preventive maintenance declaration and CTFs etc.	⊠ Yes □ No
3	Risk associated to verify that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the	This risk can be minimized/mitigated during desk review the monitoring equipment along with make and model, to check whether	⊠ Yes □ No

Risk associated to the non-conduction of mandatory physical on-site/remote inspection for verification.

	and a set the set of a set of a set	and the set of a set of the	
	monitoring plan.	calibration of each of the	
		measuring equipment is done	
		at intervals specified in the	
		registered document	
		(FDD/FOA DD/VFA DD).	
		Furthermore, this can be cross	
		verified by reviewing of all the	
		calibration certificates and	
		taking note of the date of	
		calibration on each one for	
		each specific monitoring	
		each specific monitoring	
		equipment. Interviewing the	
		relevant	
		personnel to ensure that the	
		calibration procedures are	
		being followed as per the	
		registered monitoring plan	
4	Pick accordated to avaluate the	The identified risk can be	
4		minimized/mitigated	
		minimized/miligated by	
	and express a conclusion with a	managing access to the	
	reasonable level of assurance	records during the desk review	L No
	on whether the reported GHG	of the documents. It can be	
	emission reduction data is free	verified whether a project has	
	from material misstatement.	adequate controls related to	
		data changes/undates version	
		tracking traceability security	
		and whether date is	
		and whether data is	
		reproduceable from the sample	
		sheets. Furthermore, data	
		quality control personnel can	
		also be interviewed to establish	
		the level of assurance	
5	Pisk associated to verify that	the level of assurance.	
5	Risk associated to verify that	The identified risk can be	
5	Risk associated to verify that reported GHG emission data is	the level of assurance. The identified risk can be minimized/mitigated during	⊠ Yes
5	Risk associated to verify that reported GHG emission data is sufficiently supported by	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set	⊠ Yes
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log To check	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/corroct	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.	∑ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.	⊠ Yes □ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by	 ∑ Yes
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous	 Yes No Yes No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found	 Yes No Yes No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 EARs were raised during	 ∑ Yes ∑ Yes ☐ No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design cortification etage	 Yes No Yes No
5	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not. The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design certification stage.	 Yes No Yes No
6	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design certification stage. Which has been successfully	 Yes No Yes No
6	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance. The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not. The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design certification stage. Which has been successfully closed during this verification.	Yes No Yes □ No
5 6 7	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design certification stage. Which has been successfully closed during this verification.	 Yes No Yes No
5 6 7	Risk associated to verify that reported GHG emission data is sufficiently supported by evidence.	the level of assurance.The identified risk can be minimized/mitigated during desk review and document set of data for the monitoring period and Information provided in the monitoring report can be cross-checked with other sources such as sales receipts/log. To check whether, calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. Furthermore, appropriate/correct emission factor value has been applied or not.The identified risk is mitigated/minimized by reviewing the previous Verification report and found that 9 FARs were raised during design certification stage. Which has been successfully closed during this verification.	 ☑ Yes ☑ Yes ☑ No

8	Any design	The identified risk is minimized	⊠ Yes
	change(s)/temporary	/mitigated by reviewing the	
	deviation(s) since the previous	previous verification report and	□ No
	physical site visit.	found that conducting regular	
		WQT checks would be possible	
		due to the ongoing civil conflict	
		in the country for therefore PP	
		has sought and obtained	
		deviation /13/approval, opting	
		for a conservative approach.	

C.3. Interviews

Interviews with project representatives including the implementation partner was taken by a Verification team remotely. All surveys were conducted in person and photos of end users with photo IDs and GPS coordinates were taken as records/10/. Submitted photos, snapshots, and ER sheets maintained of the site survey were checked by the verification team to confirm.

No.	Name	Organization	Date	Торіс	Team member
/1/	Matthew pike	CO2 Balance UK limited	23/08/2023	 Discussion on the stated goal and policy of the PoA. Discussion on the sustainability, environmental impact, local stakeholders meeting procedure, baseline scenario, additionality, monitoring plan, Start date. Discussion on the GS registered VPA-DDs, eligibility criteria and its compliance, ongoing financial need, SDG impact, eligibility criteria for, safeguarding principles, stakeholder consultations and grievance mechanism in line with GS4GG, requirements. 	Harish Sharma, Shalini Yadav,

121				Discussion on the stated goal and	Harish Sharma
121				policy of the PoA.	Shalini Yadav,
	Tarekegn G/Hiwot	officer at Vita (implementation partner)	23/08/2023	 Discussion on the sustainability, environmental impact, local stakeholders meeting procedure, baseline scenario, additionality, monitoring plan, Start date. Discussion on the GS registered VPA-DDs, eligibility criteria and its compliance, ongoing financial need, SDG impact, eligibility criteria for, safeguarding principles, stakeholder consultations and grievance mechanism in line with GS4GG, requirements. 	
/3/			23/08/2023	Discussion on the stated goal and	Harish Sharma,
	Mersha Getnet	CDF at Vita (implementation partner)		 Discussion on the sustainability, environmental impact, local stakeholders meeting procedure, baseline scenario, additionality, monitoring plan, Start date. Discussion on the GS registered VPA-DDs, eligibility criteria and its compliance, ongoing financial need, SDG impact, eligibility criteria for, safeguarding principles, stakeholder consultations and grievance mechanism in line with GS4GG, requirements. 	Shalini Yadav,
/4/	Abiyot Birhanu	water technician at the Vita (implementation partner)	23/08/2023	Discussion on the stated goal and policy of the PoA. •Discussion on the sustainability, environmental impact, local stakeholders meeting procedure, baseline scenario, additionality, monitoring plan, Start date. Discussion on the GS registered VPA-DDs, eligibility criteria and its compliance, ongoing financial need, SDG impact, eligibility criteria for, safeguarding principles, stakeholder consultations and grievance mechanism in line with GS4GG, requirements.	Harish Sharma, Shalini Yadav,

/5/			23/08/2023	Discussion on the stated goal and policy of the PoA.	Harish Sharma, Shalini Yadav,
	Gashanew wubu	Water Technician at Vita (implementation partner)		 Discussion on the sustainability, environmental impact, local stakeholders meeting procedure, baseline scenario, additionality, monitoring plan, Start date. Discussion on the GS registered VPA-DDs, eligibility criteria and its compliance, ongoing financial need, SDG impact, eligibility criteria for, safeguarding principles, stakeholder consultations and grievance mechanism in line with GS4GG, requirements. 	

C.5 Consideration of materiality in conducting the verification

The project is a Micro-scale, project activity achieving total emission reductions of < 10,000 tons of CO2e per year; as such, a 10 percent materiality threshold is applied. The threshold of materiality was evaluated based on §9.6.3 (d) of GS validation and verification Version 1.0. It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 10% of GS10735-GS6523: 10,000 tCO2e for all VPAs each Which is equal to

VPAs	ERs	ERs (applied materiality)
GS10735:	8,537 tCO2e	853.7 tCO2e
GS10736:	10,000 tCO2e	1000 tCO2e
GS10737:	3,402 tCO2e	340.2 tCO2e

Based on the above information, a risk analysis is carried out in the following activities:

1. Monitoring system including the data input procedure (including relevant personnel and applicable template forms used)

- 2. Copy of the agreement between household and Project Participant (s) (origin of data)
- 3. Water source unique ID system
- 4. ER sheet (application of data)
- 5. Data flow
- 6. Data control procedures
- 7. Monitoring survey records

In conducting the verification, VVB took cognizance of §9.6.3 (d) of GS validation and verification Version 1.0./B04-c/ and based on the input of data from different sources checked through a sampling of records. Data flow was checked through a comparison of data in hand-written forms, electronic database, and ER sheet /02/. The competence of the personnel involved in conducting the water quality testing, recording of data, and calculation of the emission reduction data has been checked by the verification team by means of a review of the training documents/12/.

The risks identified can be mitigated through cross check with all sets of documents. The verification team performed the following checks to minimize/mitigate the effects of the above-identified sources of error:

<u>Mitigation of Human error risks</u>: The verification team mitigated the risk by checking the training records/12/ of the personnel and assessing their competencies, skills, monitoring/testing procedure followed, understanding of the monitoring survey forms, protocol and testing procedure, etc. Further, data was crosschecked with the ER calculation spreadsheet /02/ and the sample raw data.

<u>Mitigation due to error in the Information system:</u> Verification team on desk review basis and remote interviews with the field team personnel responsible for such activities mitigated the risk due to errors in an information system. It was confirmed through interviews that the raw data is collected by the field personnel and then transmitted and stored electronically at CME's office. The data quality control is maintained by the CME.

<u>Accuracy of the measuring equipment:</u> The risk due to inaccuracy in measurements was mitigated by reviewing the calibration certificates of all the project equipment.

<u>Competence of personnel involved in conducting standardized tests</u>: Verification team has reviewed the abilities, qualifications, and recognition of involved personnel and institutions of the measuring team. The tests/procedures have been carried out by well-trained personnel. The training certificate of the personnel has been provided to the verification team in this respect.

Mitigation due to an error in Sampling: NA

Based on the assessment carried out, CCIPL confirms with a reasonable level of assurance that the claimed emission reductions are free from material errors, omissions, or misstatements

C.4. Sampling approach

No sampling approach has been applied for this verification period as PP has sought deviation/13/ for nonconduction of physical and remote inspection due to ongoing military conflict in the country. Please refer section C.2 of the verification report for detail explanation.

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

The VVB has raised 01 clarifications (CLs), 17 corrective action requests (CARs) are raised and closed successfully. VVB has raised for 01 Forward Action request for next verifying VVB. Detail list of findings as provided in Appendix 4 of this document.

SECTION D. Verification findings

D.1. Remaining forward action requests from validation and/or previous verifications (applicable for VPA 258 (GS10737).

FAR#1	The PP must prove that within the project area, there is not any other boreholes or water supply system from other carbon or non-carbon projects, including the boreholes that installed by the government or other organizations.
PP assessment:	The entire project area of the project is vast, and it is not feasible for PP to prove that there are no other water supply systems present. However, in the communities in which repairs have been conducted PP confirms that no other water points are present, the ongoing project surveys also confirm from where users are drawing water and the CTF acts as legal confirmation.
VVB assessment:	PP has provided the declaration that no other water supply system has been present in the project area however this has been confirmed through the interviews with PP and CTFs were checked during the desk reviews which seems to be appropriate and acceptable.

Location details of all water points/boreholes shall be checked prior to 1st verification.
GPS coordinates can be found in the PTD tab of the ER Calculations submitted.
VVB has checked the GPS coordinates provided in ER sheet for both boreholes and the protected springs through online and found that coordinates were found to be correct and in line with ER sheet which is within the project's boundary.

FAR#3	PD to update their usage survey format to capture seasonality and supply a copy for SustainCert approval prior to conducting the study.
PP assessment:	A new usage survey has been implemented in this project, with confirmation of
	seasonality from SustainCert provided to the VVB.
VVB assessment:	PP has provided approved the usage survey/07/ from SustainCert implemented for this project is to be 95%. which is reviewed by VVB and confirmed the usage survey to capture the seasonality.

FAR#4	PD should note that GS-TAC has determined parameter caps during an
	ongoing grievance as follows:
	-Firewood consumption to boil 1 litre of water for 10 minutes will be capped at 0.400 kg for three stone firewood baseline stove scenarios. For other baseline fuels, projects will be assessed on case-by-case basis. AND
	-For borehole projects, the number of users per borehole will be capped based on specifications from the borehole technology supplier/manufacturer.
	Depending on the outcomes of the grievance process, there is a potential for corrective measure, including but not limited to GS rule update and possible remedies for existing GS projects. Please see the grievance ToRs for more detail on how remedies may be proposed and applied.
PP assessment:	These caps have been applied and are clearly evident in the ER's
VVB assessment:	VVB has reviewed the ER sheet for calculation of wood fuel to boil 1 litre of water in baseline scenario PP has considered a cap of 0.400 kg.and for boreholes the number of users per borehole is capped at 300 . VVB found this to be appropriate and accentable
PP assessment: VVB assessment:	Depending on the outcomes of the grievance process, there is a potential for corrective measure, including but not limited to GS rule update and possible remedies for existing GS projects. Please see the grievance ToRs for more detail on how remedies may be proposed and applied. These caps have been applied and are clearly evident in the ER's VVB has reviewed the ER sheet for calculation of wood fuel to boil 1 litre of wate in baseline scenario PP has considered a cap of 0.400 kg.and for boreholes th number of users per borehole is capped at 300 . VVB found this to be appropriat and acceptable.

FAR#5	PD to update their usage survey format to capture seasonality and supply a copy for SustainCERT approval prior to conducting the study.
PP assessment:	The Usage Survey captures seasonality and has historically been approved by SustainCERT.
VVB assessment:	VVB has evidenced, provided the usage survey/07/ seasonality considered 95% which has been approved by SustainCERT and further cross checked with Usage survey sheet provided and found to appropriate and acceptable.

FAR#6	PD to provide full transparency on maintenance programme roles and responsibilities. This should include: the process of recording and reporting all faults/breakdowns and when a borehole starts working again. It should also include a summary of all planned annual maintenance tasks and the downtime expected for these tasks. Future monitoring reports must have % total borehole downtime (and days) recorded transparently in Project Technology Days parameter box.
PP assessment:	PP has provided information on maintenance programme under Section B.1 and has also submitted overarching roles and responsibilities document created by Vita and CO2balance.
VVB assessment:	VVB has checked the information provided in MR by PP and has cross check the evidence letter/12/ for preventive maintenance programme during the MP along

with Vita roles and responsibilities of each of the staffs of the Vita implementation
team and the projects representative provided.

FAR#7	WBT results for wood and charcoal shall be submitted prior to 1st verification.
PP assessment:	Please note measured WBT results are no longer valid in ER calcs, and the default value is applied (Wb, y of 0.0004). PP has applied this to this verification.
VVB assessment:	WBT has been assessed and the PP has taken the deviation/13/ for annual WQT test cannot be possible due to civil conflict in the project boundary and therefore 92.7% functionality cap across all project technology days.

FAR#8	The walking/pedalling distance of users shall be monitored during the monitoring surveys by the PP.
PP assessment:	The project survey has monitored the total time taken to collect water (Question 16). Distance from the borehole of each user is recorded in the project database which is included in a tab of the ER calculations.
VVB assessment:	VVB has reviewed the project survey/03/ sheet and further considered the question 16 which is the distance from the borehole of each user.VVB doesn't interviewed the end-users and confirmed through the document review provided by due to limitation in the country.

FAR#9	PD shall make sure that during monitoring, the total water collected by users from the project technology must be measured – along with crediting litres.
PP assessment:	PD has included this information in the Water Consumption Field Test Results, Water Storage and Use Sheet. Field teams measured the amount of water used per day out of storage containers (if applicable) or jerrycans. This gave an accurate figure for the amount of water that was used per day which is then split by use in the Water Storage and Use Sheet. Therefore, the WCFT survey was able to determine total water collected and used.
VVB assessment:	VVB has reviewed the WCFT surveys provided by PP and found that field teams measured the amount of water used per day out of storage containers or jerrycans and the total water collected from the users have been mentioned in the test results which is found to be appropriate and acceptable.

FAR#10	The total number of persons consuming water supplied by project through year y is a monitored parameter and PD shall submit this information during the 1st verification.
PP assessment:	User lists for all technologies included in the project have been supplied for first verification. This information is available in the ER calculation spreadsheets under the 'HH list' tab
VVB assessment:	VVB has reviewed the user lists for all technologies in the project consuming water supplied available in the ER calculation spreadsheets and found to be appropriate and acceptable.

D.2. Compliance of the project implementation and operation with the registered project design document

D.3. Post-registration changes

>> Temporary Deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

1) <u>Deviation requests were submitted and approved against the requirement for a physical audit and subsequent</u> remote audit.

<u>PP response</u>: Due to the ongoing civil war in the region it was unsafe for the VVB or other third party to attend a physical audit of any of the project villages. Initially plans for a remote audit were made, but due to the escalation of the conflict this was deemed unsafe for the project partner to manage. This was also then deviated against.

The conflict and ongoing situation in the region are beyond the PD's and implementation partners control; however, the nature of this deviation is temporary, and a future physical site visit will be conducted when deemed safe and appropriate.

<u>VVB Assessment</u>: VVB has reviewed the approved deviation/13/ provided by PP and, considering the current situation in Ethiopia, deemed it unsafe to conduct a physical site visit in the project area due to civil conflicts. Instead, the assessment was conducted through a desk review.

2) A deviation request was submitted covering this MP, which deviated on the outlined water quality testing approach in the PDD/methodology, which was not fully achieved due to the civil war in the region.

<u>PP response</u>: As part of the deviation, the PP proposed to implement a more conservative functionality cap based on the CDM confidence/precision achieved in the lowest WQT quarter across the project. This applies a 92.7% functionality cap across all project technology days. The deviation was approved in full for this MP as the civil was clearly outside the control of PP.

<u>VVB Assessment:</u> VVB has reviewed the approved deviation /13/for WQT provided by PP and, considering the current situation in Ethiopia, deemed it unsafe to conduct a WQT test visit in the project area due to civil conflicts. Instead, the assessment was conducted to implement a more conservative functionality cap based on the CDM confidence/precision achieved in the lowest WQT quarter across the project. This applies a 92.7% functionality cap across all project technology days.

D.3.1. Corrections

>>

Not applicable

D.3.2. Changes to the start date of the crediting period

>>

Crediting period dates registered on SustainCert platform are estimates at the time of VPA creation and updated in the first Verification period of associated VPA in the MR once specific technology start dates are known and bundled into appropriate VPAs. As a result, the confirmed Crediting Period Start dates for these VPA's are as follows (as per Section A.4)

Project ID	Start Date	Crediting Period Start Date	Crediting Period End Date
GS10735	03/07/2020	04/07/2020	03/07/2025
GS10736	28/06/2020	29/06/2020	28/06/2025
GS10737	29/06/2021	30/06/2021	29/06/2026

D.3.3. Inclusion of a monitoring plan

>>

Not applicable

D.3.4. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

>>

Not applicable

D.3.5. Changes to the project design

>>

Section D.1 of the MR, parameter Pb,y is removed. It is not required for the calculation of SDG 3. The parameter has been removed from the Monitoring Report. This was added in error and is applicable to all VPAs.

Section D.2 of the MR contains parameter Pp,y for the calculation of SDG 3. It is not required to calculate SDG 3 impact. The parameter has been removed from the Monitoring Report. This was added in error and is applicable to all VPAs.

D.3.6. Changes specific to afforestation and reforestation project activities.

>> Not applicable

D.4. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents.

Means of verification	Document Review, Interview
Findings	CAR 02 has been raised during this verification and has been closed successfully
Conclusion	The verification team has checked the actual monitoring plan against the registered monitoring plan and monitoring methodology /B01/. and applicable tools /B11/. Furthermore, the verification team has checked monitoring system by means of comparison with the information given in the monitoring plan and monitoring methodology. The monitoring plan is completely in accordance with the approved methodology /B01/ applied by the registered VPA-DD/B03/.

D.5. Compliance of monitoring activities with the registered monitoring plan

D.5.1. Data and parameters fixed ex ante or at renewal of crediting period.

Means of verification	Document Review, Interview
Findings	CAR 12 has been raised and closed successfully during this verification
Conclusion	Verification team confirms that the data and parameters fixed ex ante are in
	compliance with the registered VPA-DD /B03/ and monitoring plan. Please refer
	to the Annex 1.

D.5.2. Data and parameters monitored.

Means of verification	Document Review, Interview
Findings	CL01 ,CAR 13, and CAR 15 has been raised during this verification and
	successfully closed.
Conclusion	The verification team confirms that the data and parameters monitored are in
	compliance with the registered VPA-DD /B03/ and the monitoring plan.
	It is confirmed that the verification team assessed the data / information flow from the point of monitoring to emission reduction calculation and found no gap in the same. Please refer to the Annex 2.

D.5.3. Implementation of sampling plan

Means of verification	Document Review, Interview
Findings	CAR16 has been raised during this verification and closed successfully.
Conclusion	The verification team has checked the sampling plan and considered
	appropriate for all the surveys and field tests done: Project Survey, Water
	Consumption Field Test (WCFT), and Annual Usage Survey. The
	parameters assessed during the sampling are:
	 Usage rate in project scenario (Up,y) Quantity of safe water supplied in the project scenario (Qp,y) Quantity of safe water boiled in the project scenario (Qp,cleanboil,y) The raw of unsafe water that is still boiled after installation of the water treatment technology (Qp, raw, y) Project time spent collecting water and firewood per household per trip. (TPy)
	In accordance with the Gold Standard methodology "Technologies and Practices to Displace Decentralized Thermal Energy Consumption" (TPDDTEC v1), survey
	samples are randomly selected from the user record using a random sample

 group (RSG). A random number generator ranks the unique serial numbers of the boreholes in the project, generating the RSG which satisfies 90/30 precision. Each user in the RSG is assigned a unique random number from which survey participants are selected in accordance with the minimum sample size and confidence requirement for each survey. The RSG and survey participants are reselected for every monitoring period to ensure the selection remains random.
The project proponent has elected to cross-sample technologies across all its homogenous water points VPAs located within the project area. Sampling method: Simple random sampling method is adopted as the target population is homogeneous. The sample size is determined by the requirement to achieve 90/30 precision, in line with the methodology for annual survey. Sampling approaches followed the GS4GG Methodology "Technologies and Practices to Displace Decentralized Thermal Energy Consumption" (TPDDTEC), version 01 project surveys/03/ carried out using representative and random sampling. The sample size is determined in line with the methodological minimum sample size and confidence requirements. The sample size included all households and was randomly sampled from a list of all the project water point system in the project and in line with the minimum sample size requirements as defined by the methodology and certified VPA -DD. The WCFT performed found consumption of 10.62 L per person per day for GS10735 (boreholes) and 9.02 L per person per day for GS10736 and GS10737 (protected springs) all values are capped at 7L per person per day. The WCFT is carried out by staff trained by CO2balance UK Ltd to meet the specific requirements of the methodology. All data presented in Excel is subject to checking and cross referencing of a sample of the raw data by CO2balance UK Ltd.
Usage Survey is used to determine the Up,y (usage rate in the project scenario p through year y) parameter. As all protected springs will be installed within 1 year of the start of the crediting period and are expected to last the lifetime of the project, minimum samples of 30 for different aged technologies will not be necessary. Boreholes included in this project are installed within a year from the start of the crediting period. Random sampling of different aged technologies ensures that a minimum of 30 samples from each age group are included. The annual usage survey for boreholes and protected springs are conducted using a minimum sample size of 100.
The project survey/03 / is conducted using a minimum sample size of 100. No sampling approach has been adopted by the VVB as the PP has taken the deviation/13/ from the GS to execute the project on the desk review basis only.

D.6. Compliance with the calibration frequency requirements for measuring instruments.

Means of verification	Document Review, Interview
Findings	NA
Conclusion	N/A since there is no monitoring equipment which require calibration as per the monitoring plan. The tool used for the monitoring consists of reviewing the documents and remote interviews.

D.7. Assessment of data and calculation of emission reductions or net removals

D.7.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification Document Review, Interview

Findings	No Finding Raised		
Conclusion	Baseline Emission (BE):		
	BEb,y = Bb,y * ((fNRBy * EFb,fuel,co2) + EFb,fuel,nonco2) * NCVb,fuel		
	Where:		
	$B_{b,y} = (1 - C_j) * N_{j,y} * W_{b,y} * (Q_{p,y} + Q_{p,rawboil,y})$		
	Where:		
	$N_{j,y}\;$: Number of person days consuming water supplied by project scenario p through year y		
	Cj : Expressed as a percentage, the portion of users of the project technology j who in the baseline were already consuming safe water without boiling it		
	$B_{b,y}$: Quantity of fuel consumed in baseline scenario b during the year y in tons		
	Q _{p,y} : Quantity of safe water in litres consumed in the project scenario p and supplied by project technology per person per day		
	$Q_{\text{p,rawboil},y}$: Quantity of raw water boiled in the project scenario p per person per day.		
	W _{b,y} : Quantity of fuel in tons required to treat 1 litre of water using technologies representative of baseline scenario b during the project year y, as per Baseline Water Boiling Test		
	fNRB _y : - Fraction of biomass used during year y for the considered scenario that can be established as non-renewable biomass (fNRB=0.97 default value from CMD tool 30 version 03 has been considered.)		
	NCVb _{,fuel} : - Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.0156 TJ/ton)		
	$EF_{b,fuel,co2}$: - CO_2 emission factor of the fuel that is substituted or reduced. 112 tCO2/TJ for Wood/Wood Waste		
	$EF_{b,fuel,nonco2}$: - Non-CO ₂ emission factor of the fuel that is substituted or reduced ($EF_{b,fuel,nonco2}$ = 9.42 This value corresponds with updated AR5 GWP value)		
	The baseline GHG reduction BE _{b,y} ² =		
	GS ID BEby (2021) BEby (2022) Total BEby		
	GS10735: 3,099 6,307 9.408		
	GS10736: 4,865 6.802 11.238		
	GS10737: 1,006 2,613 3,623		
	The verification team confirms that the calculation of BEb, y is in accordance with		
	the applied methodological equation and the registered VPA-DD/B03/. Calculations have been checked and confirmed from the ER spread Sheet /02/.		

² Beby values applicable for Monitoring Period 1 i.e, 06/10/2020-06/10/2022 (24 Months)

D.7.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	Document Review, Interview		
Findings	No finding raised		
Conclusion	Project Emission (PE):		
	PEp,y = Bp,y _* ((fNRBy _* E NCVp,fuel	EFp,fuel,co2) + EFp,fue	el,nonco2) *
	Bp,y = (1 – Cj) * Np,y * Wp	o,y * (Qp,rawboil,y + Q	p,cleanboil,y)
	Where: Np.y :Project technology-d	avs in the project data	base for project scenario p
	through year y	- , ,	_
	VPA NO	Total PTDs	
	GS10735:	2,497,493	
	GS10736:	2,982,912	
	GS10737:	961.891	-
			_
	Cj: Expressed as a percen who in the baseline were a it.(Cj=0.0176 fraction) Wpy: Quantity of wood fue the project scenario p durin Qp, rawboil,y : The raw of water treatment technology Qp,cleanboil,y : Quantity o year y using the zero or low (Qp,cleanboil,y =7.5 L/pd) PE _{p,y} : - Emissions for project B _{p,y} : - Quantity of fuel considerived from the statistical project performance field to are performed, e.g. by-defa	tage, the portion of us lready consuming safe I or fossil fuel that is us ng year y.(Wpy=0.000 unsafe water that is st y.(Qp, rawboil,y =0) f safe water boiled in t w emissions clean wat ect scenario p during t sumed in project scena analysis conducted or ests (cases when no b ault baseline factors).	ers of the project technology j e water without boiling sed to treat 1 litre of water in 4 T/L) ill boiled after installation of the he project scenario p during the er supply technology. he year y in tCO ₂ e ario p during year y, in tons, as n the data collected during the paseline performance field test
	The value of Bp,y is equal still boiled after installation safe water boiled in the pro low emissions clean water	to zero as the Quantity of the water treatmen bject scenario p during supply technology are	y of raw or unsafe water that is t technology and Quantity of the year y using the zero or e zero.
	fNRB, _y : - Fraction of biomathat can be established as	ass used during year y non-renewable bioma	/ for the considered scenario ss
	NCV _{p,fuel} : - Net calorific va 0.0156 TJ/ton). This is equ same fuel	lue of the project fuel (al to the baseline fuel	(IPCC default for wood fuel, NCV in projects which use the
	EF _{p,fuel,co2} : - CO ₂ emission fuel EF in projects which u	factor of the project fu se the same fuel, 112	el. This is equal to the baseline tCO ₂ /TJ for Wood/Wood Waste

EF _{p,fuel,nonco2} : - Non-CO ₂ emission factor of the project fuel. This is equal to the baseline fuel EF in projects which use the same fuel.
Project Emission (PE) = 0 tCO₂e for all VPAs
The project of activity is a Improved Kitchen Regimes Multi- Country project which involves no project emission. Furthermore, this is in line with the applicable applied methodology, Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC) v.1

D.7.3. Calculation of leakage GHG emissions

Means of verification	Document Review, Interview
Findings	No finding raised
Conclusion	 This project is not marketing efficient technology; it is eliminating the need for a fuel-based technology to deliver pure water. Lower emission technology substitution within households is therefore not possible and this leakage source can therefore be discounted. So, it is established that the leakage for this project is zero reference Annex 2, The displaced baseline technologies are reused outside the project boundary in place of lower emitting technology or in a manner suggesting more usage than would have occurred in the absence of the project. The non-renewable biomass or fossil fuels saved under the project activity are used by non-project users who previously used lower emitting energy sources. The project significantly impacts the NRB fraction within an area where other CDM or VER project activities account for NRB fraction in their baseline scenario. The project population compensates for loss of the space heating effect of inefficient technology by adopting some other form of heating or by retaining some use of inefficient technology. By virtue of promotion and marketing of new technology with high efficiency, the project stimulates substitution within households who commonly used a technology with relatively lower emissions, in cases where such a trend is not eligible as an evolving baseline.

D.7.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	Document Review, Interview
Findings	No Finding Raised
Conclusion	When the baseline fuel and the project fuel are the same and the baseline emission factor and project emission are considered the same, the overall GHG reductions achieved by the project activity in year y are calculated as follows:
	ERy = ∑b,p (Np,y* Up,y* Pp,b,y* NCVb, fuel * (fNRB,b, y * EFfuel, CO2 + EFfuel, nonCO2))– ∑ LEp,y
	ERy= (ΣBEb,y- ΣPp,y)* Up,y- ΣLEp,y
	Where: $\sum b,p$: - Sum over all relevant (baseline b/project p) couples $N_{p,y}$: - Cumulative number of project technology-days included in the project database for project scenario p against baseline scenario b in year y

f NR esta	stical analysis of t B,b, y : - Fraction o blished as non-rel ssil fuel baseline s	ne data collected fro f biomass used in ye newable biomass (d	ear y for baseline sc rop this term from th	enario b that can le equation when
NCV	b,fuel : - Net calorif	ic value of the fuel th	hat is substituted or	reduced (IPCC d
tCO2	2/TJ for Wood/Wo	bod Waste, or the IP O_2 emission factor of	CC default value of of the fuel that is red	other relevant fue uced
EF _{b,f} LE _{p,y} As n redu	 Leakage for p nentioned in section ction for the moni VPA NO 	roject scenario p in y on D.7.1, D.7.2 and toring period is see 2021 vintage	year y (tCO ₂ e/yr) D.7.3 above, the res the below table. 2022 vintage	sulted emission
EF _{b,f} LE _{p,y} As n redu	 Leakage for p nentioned in section ction for the moni VPA NO VPA 256 	roject scenario p in y on D.7.1, D.7.2 and toring period is see 2021 vintage 2,913	year y (tCO ₂ e/yr) D.7.3 above, the res the below table. 2022 vintage 5,619	Uted emission
EF _{b,1} LE _{p,3} As n redu	 Leakage for p nentioned in section tion for the moni VPA NO VPA 256 VPA 257 	roject scenario p in y on D.7.1, D.7.2 and toring period is see 2,913 4,192	year y (tCO ₂ e/yr) D.7.3 above, the res the below table. 2022 vintage 5,619 5,808	Ulted emission VERs 8,532 10,000
EF _{b,1} LE _{p,y} As n redu	 Leakage for p nentioned in section the moni VPA NO VPA 256 VPA 257 VPA 258 	roject scenario p in y on D.7.1, D.7.2 and toring period is see 2,913 4,192 945	year y (tCO ₂ e/yr) D.7.3 above, the res the below table. 2022 vintage 5,619 5,808 2,457	VERs 8,532 10,000 3402

D.7.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks and SDG impact estimates in registered PDD

Means of verification	Documen	t Review, Interview	
Findings	No Findin	g Raised	
Conclusion	The ex-ante estimates value of the emission reductions for the monitoring period as per the registered VPA-DD /B03/ is 60,000 tCO ₂ e and the actual total resulted emission reduction for the monitoring period is 20,471 tCO ₂ e Refer the table in section D.7.4		
	SDGs	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values ³ achieved during this monitoring period
	SDG 13	GS10735: 10,000 tCO2e GS10736: 10,000 tCO2e GS10737: 10,000 tCO2e Total: 30,000 tCO2e	GS10735: 8,532 tCO2e GS10736: 10,000tCO2e GS10737: 3,402 tCO2e Total: 21,934 tCO2e
	SDG 3	Number of additional people consuming safe water: GS10735: 1,053 GS10736: 1,044 GS10737: 1,044	Number of additional people consuming safe water: GS10735: 1,089 GS10736: 1,159 GS10737: 586

³ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

SDG 5	Reduction in time spent collecting water: 0.5 hours	Reduction in time spent collecting water: GS10735: 0.47 GS10736: 0.31 GS10737: 0.31
SDG 6	Additional people gaining access to safe water: GS10735: 5,793 GS10736: 5,741 GS10737: 5,741	Additional people gaining access to safe water: GS10735: 6,323 GS10736: 6,728 GS10737: 3,400
The emise verified to	sion reduction calculations provid be correct and in line with the re	led in the spreadsheet /02/ have been gistered VPA-DD /B03/.

D.7.6. Remarks on difference from estimated value in registered PDD

Means of verification	Document Review, Interview
Findings	No Finding Raised
Conclusion	The ex-ante estimates value of the emission reductions for the monitoring period as per the registered VPA-DD /B03/ is 30,000 tCO ₂ e it is based on capping of each VPA @10,000 tCO ₂ e and the actual emission reductions achieved for the monitoring period Refer the table in section D.7.4 Ex-antes applied a conservative usage rate of 95%, whereas actual data shows usage is higher (capped at 95%). The estimated value (10,000 tCO ₂ e per VPA) is the same for the GS10735-37 as they are capped.

SECTION E. Internal quality control

The final Verification report passed a technical review before being submitted to the Gold Standard. The technical review is performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for GS Validation and Verification.

SECTION F. Verification/Certification opinion

Carbon Check (India) Private Ltd. (CCIPL) has performed the 1st and 2nd periodic verification of the registered GS PoA title: Improved kitchen Regimes Multi-Country (1247)

"GS1247 VPA 256 Northern Ethiopia Community Safe Water (GS10735), GS1247 VPA 257 Northern Ethiopia Community Protected Springs (GS10736), GS1247 VPA 258 Northern Ethiopia Community Protected Springs (GS10737)"

The verification team assigned by the VVB concludes that the project activity as described in the VPA-DD /B03/ and the Monitoring report /01/, meets all relevant requirements of the Gold Standard. The verification has been conducted in-line with the GS4GG requirements project activities /B02/.

Verification methodology and process

The Verification team confirms the SOW is signed /08/ between the VVB, Carbon Check (India) Private Ltd. and the Project Participant. The team assigned to the verification meets the CCIPL's internal procedures including the GS/GS requirements for the team composition and competence. The verification team has conducted a thorough contract review as per GS and CCIPL's procedures and requirements.

The verification has been performed as per the requirements described in the GS4GG and constitutes the review and completion of the following steps:

- Reviewing the VPA-DD /B03/, including the monitoring plan and the corresponding validation report.
- Desk review of the MR /01/ and other relevant documents including documents related to the project activities in emission reductions.

- Review of the applied monitoring methodology "Technologies and Practices to Displace Decentralized Thermal Energy Consumption" Version 01 /B01/.
- Remote inspection of PP and implementation team (23/08/2023)
- Resolution of CARs and CLs raised during verification.
- Issuance of Verification Report

The project activity was correctly implemented according to selected monitoring methodology /B01/, monitoring plan and the registered VPA-DD /B03/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the document review, the verification team confirms that the project activity has resulted in the total of 21,934 tCO2e emission reductions (Refer the table in section D.7.4) during the reported monitoring period /01/.

This statement covers verification period from GS10735: 01/08/2021 - 31/07/2022 (including both the days) GS10736: 01/08/2021 - 31/07/2022 (including both the days) GS10737: 25/06/2021 - 31/07/2022 (including both the days)

The VVB has raised 01 clarifications and 17 corrective action requests all of which are raised and closed successfully. VVB has raised for 01 Forward Action request for next verifying VVB.

The VVB considers necessary to give reasonable assurance that reported GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology and the monitoring plan contained in the registered VPA-DD /B03/ are fairly stated.

The VVB, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to (Refer the table in section D.7.4) 21,934 tCO2e equivalent and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CA	Corrective Action/ Clarification Action
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon Dioxide
CO2e	Carbon Dioxide Equivalent
CTF	Carbon Transfer Form
EB	Executive Board
EF	Emission Factor
FA	Final Approval
FAR	Forward Action Request
FVR	Final Verification Report
GHG	Greenhouse gas(es)
GS	Gold Standard
GS4GG	Gold Standard for the Global Goals
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LE	Leakage Emissions
MP	Monitoring Period
MR	Monitoring Report
NA	Not Applicable
PE	Project Emissions
PP(s)	Project Participant(s)
PTD	Project Technology Days
QC/QA	Quality Control/ Quality Assurance
RCF	Repair Confirmation Form
ТА	Technical Area
TR	Technical Review
GS	United Nations Framework Convention on Climate Change
VER	Verified Emission Reduction
VVB	Validation & Verification body
WCFT	Water Consumption Field Test
WQT	Water Quality Test
SOW	Scope of Work
VV Plan	Validation and verification plan
SDG	Sustainable Development Goal

Appendix 2. Competence of team members and technical reviewers





Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

⊠ Validator	🛛 Verifier	🛛 Team Leader	🛛 Technical Expert
🛛 Technical Reviewer	🗆 Health Expert	🗌 Gender Expert	🛛 Plastic Waste Expert
CCB Expert	Legal Expert	🛛 Financial Expert	Environmental, Health and Safety financial matters
SDG+	⊠ Social no-harm(S+)	⊠ Environment no-harm(E+)	

🛛 Local Expert for India and Sri Lanka

in the following Technical Areas:

🛛 TA 1.1	🖾 TA 1.2	🗆 TA 2.1	🖾 TA 3.1	🗆 TA 4.1
🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🗆 TA 7.1	🗆 TA 8.1
🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🖾 TA 13.1	🛛 TA 13.2
🗆 TA 14.1	🗆 TA 15.1	🗆 TA 16.1		

Issue Date

5th December 2023

Buya Suman

Ms. Priya Suman Compliance Officer Expiry Date

31st December 2024

Sanjas Azementla

Mr. Sanjay Kumar Agarwalla Technical Director

Revision History of the document:

Revision date	Summary of changes
2022 ¹	Annual revision
Jan 2023	Annual revision
Dec 2023	Change in the template due to revision in TA and function

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

¹ Please refer to previous version of FM 7.9 for the revision history

Appendix 3. Documents reviewed or referenced.

Sr. No.	Document
/01/	Monitoring Report version 07 Dated: 08/04/2024
/02/	a) GS1247_GS10735_VPA_256_MP2_BH_ERs_v3 b) GS1247_GS10736_VPA_257_MP2_PS_ERs_v4 c) GS1247_GS10737_VPA_258_MP1_PS_ERs_v3
/03/	a) Project Survey (Protected Spring) Amharab) Project Survey (Borehole) Amhara
/04/	a) Usage Survey (Protected Spring) Amharab) Usage Survey (Borehole) Amhara
/05/	a) Roles and responsibilities of VITA implementation
/06/	a) PS_Amhara_Photos_Nameplate sample b) BH Amhara
/07/	Evidence "Usage Survey seasonality SC Approval"- Email confirmation
/08/	"Amhara MCFs"
/09/	Random Samples:
	a) Usage Survey (Borehole) Amhara random sample
	b) Usage Survey (Protected Spring) Amhara_RS
	c) Project Survey (Borehole) Amhara Random sample
	d) Project Survey (Borehole) Amhara Random sample
/10/	a) Vita-Amhara-Water Annual Survey Staff Traning-2022
/11/	Contract Details (SOW) – CCIPL and CO ₂ balance UK Ltd dated: 09/12/2022
/12/	a) Evidence letter for Preventive maintenance and reactive records.
/13/	a) DEV_577
	b) DEV_628
	c) Deviation-Request_GS10735-7_Northern Ethiopia_DEV456
/14/	a) Declaration of no double counting_MP2 GS1247 VPA 256-25
/15/	a Amhara-WCFT-BH-July 2021(2)
	b Amhara-WCFT-PR-July 2021

Background Documents

Ref no.	Reference Document
/B01/	Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC) v.1
/B02/	 a. GS4GG Principles & Requirements (version 1.2) b. GS4GG Safeguarding principles & requirements, version 1.2 c. GS4GG Programme of activity requirements, version 1.2 d. GS4GG Community services activity requirements, version 1.2
/B03/	Gold Standard Project Design VPA DDs: a) GS10735_(2)GS10735 VPA 256 VPA DD_v5_CL b) GS10736 (2)GS10735 VPA 257 VPA DD_v5_CL

	c) GS10736 (2)GS10735 VPA 257 VPA DD_v5_CL
/B04/	 Standards: a. Sampling and surveys for CDM project activities and programmes of activities CDM sampling standard, version 09. b. Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0.
	c. GS Validation and Verification standard for project activities, version 01.0
/B05/	IPCC 2006, volume 2, chapter 1
/B06/	Site Visit and Remote Audit Requirements and Procedures, version 1.0
/B07/	IPCC Default emissions factor, EFDB Emission Factor Database.
/B08/	IPCC Default emissions factor: Non-CO ₂ Emissions from Stationary Combustion.
/B09/	Weblink: a) <u>http://cdm.unfccc.int/</u> b) <u>https://www.goldstandard.org</u>
/B10/	 Rule update – a) Micro -scale project requirement version 1.2 b) Applicability of minimum site visit requirement by VVB.
/B11/	CDM- TOOL 30- Calculation of the fraction of non-renewable biomass EB 108, Annex 11 (Version 3.0) - 2020

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

Table 1.FARs from this verification

FAR ID	01		Date: 18/03/2024
Description of FAR			
Next verifying VVB shall check that the date/ time stamps must be available in the photographs of boreholes			
and protected sprir	ıg.		

Table 2.CLs from this verification

CL ID		01	Section no.	D.2	Date: 18/04/2023
Descri	ption of CL				
For the A. The period. B. The	e current mo decrease in increase in	nitoring period, Cl the value of NPy	ME to clarify for GS10736. Also s G 3 for GS10736	share the sales da	atabase for the current monitoring
Projec	t participar	nt response			Date: 04/12/2023
A.	More wate MP1. This has m The Sales the installa The CTF/F The CTF/F rehab date Further, ar also confir By it's natu more critic	rpoints have been neant the VPA now database is made ation of water poin Rehab confirmatio Rehab confirmatio is included in the ny ongoing critical ms the repair takin ure, safe water pro- cal.	n bundled into G1073 w reports and increa e up of the PTDs tab its. All are included a n form acts as n form acts as confir e PTDs. maintenance receiv ng place and parts u ojects are very differe	36 during this MP se in Npy. of the ER sheet. mong the PTDs. mation of the reh es a MCF (Mainte sed. ent to stove projec	2, that were not included during It is a water project that involves abilitation taking place. The enance Confirmation Form) with cts where a sales database is
В.	 B. More waterpoints have been bundled into G10736 during this MP2, that were not included durin MP1. This has meant the VPA now reports and increase in SDG3, as well as other parameters. 				
Docum	nentation p	rovided by proje	ct participant		
revise	d MR, ER sl	heets			
GS VV	B assessm	ent			Date:28/02/2024
•	As per the waterpoint SDG 3 will PP has shi by the VVE were adde software e CAR is clo	response provide s in the G10736 of increase. ared the sales dat 3 and further PP h d in the G10736 of rror.	ed by PP, VVB obser during this MP2, tha tabase provided in th nas claiming less Np during this MP2, whic	ve that PP has no t were not include ne PTD tab of ER y total for the proj ch were not incluc	by included the more d during MP1. Therefore, the sheet which has been checked ject due to more waterpoints ded in the MP1 due to some

1.1 Corrective action required (CARs)

Table 2 CARs

CAR ID	01	Section no.	KPI	Date: 18/04/2023	
Description of	CAR				
CME to mention	CME to mention the latest version of POA-DD available at SustainCert database.				
Project particip	ant response			Date: 02/12/2023	
PP has updated version number (16.)					
Documentation provided by project participant					
revised MR					
GS VVB assess	ment			Date: 09/02/2024	
VVB has review	ed the revised MR a	nd found that PP has r	now corrected the v	ersion number 16 as	
available in the C	35 registry. CAR is 0	closed.			
		O a still service s		D-1 40/04/0000	
	02	Section no.		Date: 18/04/2023	
Description of	CAR				
In Key project in	formation,				
1) CME to ment	tion the date when t	the last Annual report	was submitted Ale	so CME shall share the last	
annual report su	bmitted to GS for the	e review of VVR	was submitted. Ala		
2) In line with th	e requirement of GS	S template guide of MI	R CME Indicate mc	nitoring period in format 1st.	
2nd, 3rd etc. Fu	rthermore, CME to	clearly mention monitor	oring period for eac	h VPA as for GS10736 2nd	
Verification and	for GS10737 its 1st	verification.			
3) CME to use the	ne Abbreviation of th	e methodology.			
Project particip	ant response			Date: 04/12/2023	
1) AR date	added to KPI and u	ploaded the associate	d report in response	э.	
2) PP has	updated as required				
3) The Abb	vreviation (TPDDTE	C 3.1) is used			
Documentation	provided by proje	ct participant			
GS10/35-7 Anr	iual Report MP2_MI	P1 2022_signed		Data: 00/00/0004	
GS VVB assess	ment	and found that DD has	now added the Apr	Date: 09/02/2024	
has undated the	monitoring number	and iound that FF has	now added the Ann	eviation of methodology has	
been updated in	the MR CAR is close	sed		eviation of methodology has	
CAR ID	03	Section no.	Table 1	Date: 18/04/2023	
Description of	CAR				
Under Table 1	CME to Correct th	e Units/Products in T	able 1 Sustainable	e Development Contribution	
Achieved i.e. VE	Rs.				
Project particip	ant response			Date: 04/12/2023	
PP has correcte	d as requested.			-	
Documentation	provided by proje	ct participant			
revised MR					
GS VVB assess	ment			Date: 09/02/2024	
VVB has assess	ed the revised MR a	and found that PP has	now corrected the l	Jnits/Products in Table 1	
Sustainable Dev	elopment Contributi	on Achieved. CAR is c	losed.		
CAR ID	04	Section no.	Table 2	Date: 18/04/2023	
Description of	CAR				
In line with temp	late guide, CME to r	mention unit of the proc	duct for all VPAs.		
Project particip	ant response			Date: 04/12/2023	
PP has updated	as required				
Documentation	provided by proje	ct participant			
NA					

GS VVB assessment

Date: 09/02/2024

VVB has assessed the revised MR and found the PP has now updated the unit of the product for all VPAs as required. CAR is closed.

CAR ID	05	Section no.		NA	Date: 18/04/2023		
Description of CA	AR						
CME to share the	CME to share the Carbon Transfer Form signed by the water point owner for VPA 258/GS10737.						
Project participar	nt response	<u>y</u>		<u> </u>	Date: 04/12/2023		
PP has shared CT	PP has shared CTFs from VPA 258.						
Documentation p	rovided by proje	ct participant					
'VPA 258 CTFs' fo	older.						
GS VVB assessm	ient				Date: 09/02/2024		
VVB has reviewed	the CTFs provide	ed by PP on sar	nple basis	and found to be	e acceptable and appropriate		
to VVB CAR is clo	sed						
CAR ID	06	Section no.		A.4	Date: 18/04/2023		
Description of CA	R		• •				
Dates for the credi	iting periods ment	ioned for GS10	737 is no	t matching with	an GS registry, CME to clarify		
about the dates o	of crediting Period	l. Also present	the docu	umentary evider	nce against Start date of the		
GS10737.	-	-		-	-		
Project participar	nt response				Date: 04/12/2023		
PP will email GS to	o request this be ι	ipdated. Howev	/er, at the	time the VPAs v	<i>w</i> ere registered on the		
platform there was	no way to be sur	e of the accurat	e start da	te.			
In line with standar	rd approach, the C	CTF of the earlie	est tech ir	the VPA sugge	sts the start date of the CP.		
This has been sha	red.						
Documentation p	rovided by proje	ct participant					
VGIF-04-010							
Round 1 GS VVB	assessment		(0 0		Date: 09/02/2024		
CAR is open till the	e PP has provided	I the evidence of	of GS ema	all submission re	quest to update the dates of		
creating period to	VVB.						
Round 2 Project	Particinant Rosn	onso			Date: 09/02/2024		
PP has included so	creenshot request	to GS Howeve	er nlease	note that chance	les to the registered dates are		
not required and p	urely indicative ar	nd no official cha	ande is re	quired as outline	ed below.		
	aroly maloutvo ar		ungo io ro	quirou do outint			
"In case the revise	d start date of the	crediting period	d is after t	he date of Proje	ect Design Certification, a		
certified project ac	tivity is not require	ed to request ap	proval for	the changes su	Immarised in the Table 1		
below, but shall no	otify VVB at the tin	ne next certifica	tion even	L" – section 3.3	.1 of Design Change		
Requirements v1	.1.						
Updating correct project start date/cr	rediting period range to reflect actual	start	Crediting pe	riod 1	02/05/2020 - 01/05/2025		
Mon 2/12/2024 5:07 PM To: help@sustain-cert.com <help@sustain-cert.com></help@sustain-cert.com>	1.		Registration	/Design certification	23/04/2021		
Cc: Zach Clarke <zach.clarke@co2balance.com> Good afternoon,</zach.clarke@co2balance.com>			date				
The crediting start date listed on the registry fo	or this project " GS1247 VPA 258 NORTHERN E	THIOPIA COMMUNITY PROTECTED	We are currently mid	verification review and the VVB has note	ad the difference between the date listed on the registry and that		
SPRINGS" is not accurate.	Next the actual start date (and this crediting pe	riod range)?	When the VPA's were	roject docs.	estimated and never known until the project technologies (in this		
Programme of activities	νρα/ςρα		case protected spring estimates at validatio	s) became rehabilitated and came on lin	ne. Now we have filled the VPA we have more accurate dates from the		
PoA master project	CS4047		In this case the publis	hed crediting period 02/05/2020- 01/05	/2025 should be updated to 30/06/2021-29/06/2026.I'm also aware		
VDA Dundla	VDA 057 070 M	orthorn Ethionia Community	that under .				
VPA Bundle	VPA 256-258 N	or thern Ethiopia Communit	How do we go about r	haking such changes, or are they even re	equired?		
Project Size	Micro scale		r•lany thanks,				
Standard Version	Gold Standard f	or the Global Goals					
Documentation p	rovided by proje	ct participant					
NA							
GS VVB assessm	ent				Date: 28/02/2024		

PP has provided the evidence of GS email submission request to update the dates of crediting period to VVB which deems appropriate and acceptable to VVB. CAR is closed.

CAR ID	07	Section no.	B 1	Date: 18/04/2023	
Description of CA	NR		0.1		
Under section B.1 of MR 1)CME shall caption and number the Figures presented throughout the MR. 2)As mentioned under section B.1 of the MR, CME to provide water quality test records/certificate for this monitoring periods. 3)CME to provide quarterly check and preventive maintenance records for this monitoring period as mentioned under section B.1. 4)As mentioned under section B.1 CME to provide repair confirmation forms against maintenance activity held for this monitoring period					
Project participan	it response			Date: 04/12/2023	
 Figures are WQT Partner do During this shared 	 Figures are captioned and numbered as required. WQT Partner does not retain records of preventative maintenance conducted. During this MP, RCFs and maintenance was only required during Q4 of 2021. These have been shared 				
Documentation p	rovided by proje	ct participant			
2) WQT 4) Q4 Amhara MC	F.pdf				
GS VVB assessm	ent			Date: 28/02/2024	
 VVB has reviewed the revised MR and the documents provided by PP and concluded that: Figures and captions are now being presented in the MR. The WQT test report was provided by PP which has been checked. PP has provided records for preventive maintenance record which has been checked and found to be appropriate and acceptable to VVB. RCF and maintenance form has been cross checked. 					
0/11/10/010000					
CAR ID	08	Section no.	B.1.1	Date: 18/04/2023	
Description of CAR It has been noticed there were FAR raised during the validation of GS10737, CME to mention all FARs raised during validation under section B.1.1 with their responses.					
Project participar	Project participant response Date: 04/12/2023				
PP notes FARs were raised and dealt with during Verification for GS10735-6. However, PP has now added FAR section to MR and responded to the FARs in the context of GS10737, now in its first Verification. As the VPAs and project is homogenous, these still apply.					
Documentation p	rovided by proje	ct participant			
revised MR	ont			Data: 29/02/2024	
V/B has reviewed	the revised MP or	nd found that PP has as	dressed the all the	EARs which were raised	
during the previous	during the previous the validation of GS10737 and has been successfully closed now CAR is closed				

CAR ID	09	Section no.	B.2.3	Date: 18/04/2023	
Description of CAR					
CME to mention the changes made in crediting period dates under section B.2.3 as the dates mentioned under section A.4 is not in line with an GS registry.					
Project participant	t response			Date: 03/12/2023	
PP has added to se	ection B.2.3 as rec	quested and mentioned	changes.		
Documentation provided by project participant					
revised MR					
GS VVB assessme	ent			Date: 09/02/2024	
VVB has assessed the revised MR and found that PP has now added the section B.2.3 and updated the crediting period start dates. Which deems appropriate to VVB, CAR is closed.					

CAR ID	10	Section no.	B.2.5	Date: 18/04/2023

Description of CA	AR			
As its the bundle o	f VPAs CME to cle	early mention for which	VPA project	design is changed. Also clarify ho
the change are in	<u>line with Design cl</u>	nange requirementv1.1	para 3.	
Project participa	nt response			Date: 03/12/2023
No Design change	has been impler	nented to the project at	t this stage. S	Section B 2.5 refers to a parameter
box that was removed from the MR as it is not relevant to safe water projects and was included in error				
previously.				
Documentation p	rovided by proje	ct participant		
NA				
GS VVB assessm	ient			Date: 09/02/2024
VVB has reviewed	the response pro	vided by the PP and fo	und that desi	gn change is not applicable and
therefore the secti	on B.2.5 refers to	parameter box remove	d from the M	R which is not relevant to Safe
water projects. CA	R is closed.			
CAR ID	11	Section no.	C	Date: 18/04/2023
Description of C/	\P		10	
CME is to provide	records of each w	ater point along with CE	29 coordinate	s and unique identification numb
		ater point along with Gr		s and unique identification number
Project participa	at recoorce			Date: 04/01/2023
Those are provide	d for all 2 VDAa	within the DTDe/Summ	any tob of th	Date: 04/01/2023
	tah		iary lab of th	e associated ER Excel sheets p
Documentation n	rovided by proje	ct narticinant		
EP spreadsheets	ner VPA	ci participant		
CS VVB assoss	per Vr A			Date: 09/02/2024
	the revised EP s	proadchoot of oach V/P	Ac and found	that PR has included the LIN
			As and lound	that FF has included the Oliv.
CAILIS CIUSEU.				
	40	O a attaca a a		D-1 40/04/0000
CARID	12	Section no.	D.1	Date: 18/04/2023
Description of CA	AR			
Under section D.1	. of the MR, As p	er the GS4GG rule up	date APPLIC	ABILITY OF GLOBAL WARMIN
POTENTIAL FOR	GOLD STANDAF	RD FOR THE GLOBA	L GOALS PF	OJECTS" stipulates in paragrap
2.1.1 All emission	reductions and re-	movals accrued by GS	4GG projects	រ and PoAs (micro, small and larថ្
scale) will be calc	ulated by using th	ne IPCC AR5 GWP va	lues. This re	quirement will apply to all GS4G
projects and PoAs	and shall enter inf	to force from 01 Januar	ry 2021. As va	alues of the EFb,non co2 and oth
parameter which a	ire depends on the	e GWP will be updated.	. CME to use	the updated Value to calculate the
relevant parameters and update the ER calculation.				
Project participar	nt response			Date: 03/12/2023
PP has updated to	AR5 Values in El	R sheets		
Documentation p	rovided by proje	ct participant		
revised ER sheet				
GS VVB assessm	ient			Date: 28/02/2024
VVB has reviewed	the revised ER sh	neet which has been no	ow corrected	and the MR and ER sheets are
now consistent C	AR is closed			

CAR ID	13	Section no.	D.2	Date: 18/04/2023		
Description of CA	Description of CAR					
CME to submit the training record/training content used for the usage survey training for the staff who conducted the usage survey.						
Project participan	t response			Date: 03/12/2023		
PP has included tra	aining records for	Boreholes and Springs	on Usage an	d Project Surveys.		
Documentation p	rovided by proje	ct participant				
Vita-Amhara-Wate	er Annual Survey 3	Staff Traning-2022.pdf				
GS VVB assessm	ent			Date: 09/02/2024		
VVB has assessed the provided documents of Annual Survey Staff Training and found that PP has now added the content used for the usage survey training for the staff who conducted the usage survey. CAR is closed.						

CAR ID 14 Section no. D.2 Date: 18/04/2023
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Becomption of e	AR				
Mentioned source of data under section D.2 for the parameter Hygiene campaigns is missing, CME to					
submit the same along with wash reports.					
Project participa	nt response		ata d	Date: 03/12/2023	
PP has shared w	PP has shared wASh report of hygiene campaigns conducted.				
2022 Ambara M	A SHCOM training	a participant			
GS VVB assessment Date: 09/02/2024					
VVB has reviewed	the document "W	VASH report of Hygiene	campaigns" which	is found to be appropriate	
and further PP ha	s added the source	e of data under section	D.2 of the MR. CA	R is closed.	
CAR ID	15	Section no.	D.4	Date: 18/04/2023	
Description of C	AR		12		
Under Section D.4	4 of MR				
1) CME to submit	the supporting ev	idence of the outcome	of random number	generator.	
2) CME To provid	e training docume	ents for Field staff as pro	oof of training.		
Project participa	nt response			Date: 03/12/2023	
1) PP has in	cluded Random S	Sample and procedure (with random number	er generator included)	
PP has pr	rovided these.				
Documentation p	provided by proje	ect participant			
1) Random San	nple Amhara 2022	2 BH. Excel			
2) Vita-Amhara-	Water Annual Su	rvey Staff Traning-2022	2.PDF		
GS VVB assessn	nent			Date: 09/02/2024	
PP has provided the required evidence under Section D.4 of the MR which has been assessed and revied					
hutha M/D and fa	and to be exercise	rice under Section D.4		is been assessed and revied	
by the VVB and fo	bund to be appropriate	riate and acceptable. C	AR is closed.	is been assessed and revied	
by the VVB and fo	bund to be appropriate	riate and acceptable. C	AR is closed.	Dato: 18/04/2023	
by the VVB and fo	16	riate and acceptable. C	E.5	Date: 18/04/2023	
by the VVB and for CAR ID Description of C	16	Section no.	AR is closed.	Date: 18/04/2023	
by the VVB and for CAR ID Description of C. Ex-ante values an	16 AR e missing for the C	Section no.	AR is closed.	Date: 18/04/2023	
by the VVB and for CAR ID Description of C Ex-ante values an VPA. Furthermore the VPA-DD Sam	16 AR e missing for the C e, the values ment	Section no. Section no. GS10737 CME to ment ioned for the SDG 3 is 5741	E.5	Date: 18/04/2023	
by the VVB and for CAR ID Description of CA Ex-ante values an VPA. Furthermore the VPA-DD Sam	16 AR e missing for the C e, the values ment e for the SDG 6 i.e	Section no. Section no. GS10737 CME to ment ioned for the SDG 3 is a. 5741	E.5	Date: 18/04/2023	
by the VVB and for CAR ID Description of C Ex-ante values ar VPA. Furthermore the VPA-DD Sam Project participa	16 AR e missing for the C e, the values ment e for the SDG 6 i.e	Section no. SS10737 CME to ment ioned for the SDG 3 is e. 5741	E.5	Date: 18/04/2023 Uses considered for the each stered VPA-DD. i.e.1044 in	
by the VVB and for CAR ID Description of C. Ex-ante values ar VPA. Furthermore the VPA-DD Sam Project participa PP has added the	16 AR e missing for the C e, the values ment e for the SDG 6 i.e nt response ese to section E.5 a	Section no. Section no. GS10737 CME to ment ioned for the SDG 3 is e. 5741	E.5 ion the ex-ante valunct in line with regis	Date: 18/04/2023 Ues considered for the each stered VPA-DD. i.e.1044 in Date: 03/12/2023	
by the VVB and for CAR ID Description of C. Ex-ante values an VPA. Furthermore the VPA-DD Sam Project participa PP has added the Documentation p	16 AR e missing for the C e, the values ment e for the SDG 6 i.e nt response ese to section E.5 a provided by proje	Section no. Section no. GS10737 CME to ment ioned for the SDG 3 is e. 5741 as requested ect participant	E.5	Date: 18/04/2023 Uses considered for the each stered VPA-DD. i.e.1044 in Date: 03/12/2023	
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by the VVB and for CAR ID Description of C, Ex-ante values an VPA. Furthermore the VPA-DD Sam Project participa PP has added the Documentation p revised MR GS VVB assessm PP has now adde seems appropriate CAR ID Description of C, CME to provide th i.e. SDG 3 and SE Project participa	16 AR e missing for the C e, the values ment e for the SDG 6 i.e nt response ese to section E.5 a provided by proje nent d the Ex-ante value and acceptable 17 AR ne remark for each DG 6 nt response	Section no. Section no. Section no. SS10737 CME to ment ioned for the SDG 3 is a. 5741 as requested ect participant ues considered for the 0 to VVB.CAR is closed Section no. n SDG for which the va	E.5 ion the ex-ante valu not in line with regis GS10737 for each o E.6	Date: 18/04/2023 Date: 18/04/2023 Date: 03/12/2023 Date: 03/12/2024 of the VPAs, and which Date: 18/04/2023 Creased than approved PDD. Date: 03/12/2023	
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VVB has reviewed the revised MR and found that PP has now included the remark on each SDGs under section E.6 of the MR which deems appropriate and acceptable to VVB. CAR is closed.

Annex 1: Assessment of data and parameters fixed ex-ante at the time of validation.

Relevant SDG Indicator	SDG 13. B.1 Climate action
Parameter	CO_2 emission factor arising from use of wood fuel in baseline scenario
	(EF b,co2) (wood)
Data unit	tCO ₂ /TJ
Default values used	112
Purpose of data	EF-fuel was used in accordance with the methodology as a
	methodology default value
Source of verification of the source	Calculated from IPCC defaults; Volume 2: 2006 IPCC Guidelines for
	National Greenhouse Gas Inventories, Chapter 2, Table 2.5
	https://www.ipcc-
	nggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_2_Ch2_Stationary_
	Combustion.pdf

Relevant SDG Indicator	SDG 13. B.1 Climate action
Parameter	$\rm CO_2emission$ factor arising from use of wood fuel in baseline scenario (EF b,co2) (charcoal)
Data unit	tCO ₂ /TJ
Default values used	336
Purpose of data	Calculation of baseline emissions
Source of verification of the source	Calculated from IPCC defaults; Volume 2: 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Chapter 2, Table 2.5 <u>https://www.ipcc-</u> <u>nggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_2_Ch2_Stationary_Combustion.pdf</u>

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	Non-CO ₂ (CH4 and N ₂ O) emission factor arising from use of wood fuel in baseline scenario (includes production, transport, and use) $(EF_{b, non-co2})$.(Wood)
Data unit	tco ₂ /TJ
Default values used	9.46
Purpose of data	EFfuel was used in accordance with the methodology as a methodology default value. For project activities starting from 01/01/2013, the most update figure of 8.692 is used for this parameter as per guidance from the GS TAC and GS Guidance. For all vintages 2021 onwards, an updated value of 9.46 is used based on updated Global Warming Potential (GWP) published in the IPCC AR5 report.
Source of verification of the source	Calculated from IPCC defaults http://www.ipcc.ch/publications_and_data/ar4/wg1/en/c h2s2-10- 2.html#table-2-14

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	Non-CO ₂ (CH4 and N ₂ O) emission factor arising from use of charcoal fuel in baseline scenario $(EF_{b, non-co2})$.(charcoal)
Data unit	tco ₂ /TJ
Default values used	28.38
Purpose of data	EFfuel was used in accordance with the methodology as a methodology default value. For project activities starting from

	01/01/2013, the most update figure of 8.692 is used for this parameter as per guidance from the GS TAC and GS Guidance. For all vintages 2021 onwards, an updated value of 9.46 is used based on updated Global Warming Potential (GWP) published in the IPCC AR5 report.
Source of verification of the source	Calculated from IPCC defaults
	https://www.ipcc.ch/site/assets/uploads/2018/02/SYR AR5 FINAL ful
	<u>l.pdf</u>

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	CO2 emission factor arising from use of wood fuel in project scenario
	(EF _{p, co2}). (Wood)
Data unit	tco ₂ /TJ
Default values used	112
Purpose of data	Calculation of emission reductions
Source of verification of the source	Calculated from IPCC defaults
	https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_ful
	<u>l.pdf</u>

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	CO2 emission factor arising from use of charcoal fuel in project
	scenario (EF _{p, co2}). (charcoal)
Data unit	tco ₂ /TJ
Default values used	336
Purpose of data	Calculation of emission reductions
Source of verification of the source	Calculated from IPCC defaults
	https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_ful
	<u>l.pdf</u>

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	CO2 emission factor arising from use of wood fuel in project scenario
	(EF _{p, non-co2}). (wood)
Data unit	tco ₂ /TJ
Default values used	9.46
Purpose of data	Calculation of emission reductions
Source of verification of the source	Calculated from IPCC defaults
	https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_ful
	<u>l.pdf</u>

Relevant SDG Indicator	SDG 13.B.1 Climate action
Parameter	CO2 emission factor arising from use of wood fuel in project scenario
	(EF _{p, non-co2}). (Charcoal)
Data unit	tco ₂ /TJ
Default values used	28.38
Purpose of data	Calculation of emission reductions
Source of verification of the source	Calculated from IPCC defaults
	https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_ful
	<u>l.pdf</u>

Relevant SDG Indicator	SDG 13. B.1 Climate Action

Parameter	Net calorific value of the fuel used in the baseline NCVb [Wood]
Data unit	TJ/ton
Default values used	0.0156
Purpose of data	NCVfuel was used in accordance with the methodology as a methodology default value.
Source of verification of the source	IPCC default: http://www.ipccnggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_1_ Ch1_Introduction.pdf_Table 1.2

Relevant SDG Indicator	SDG 13. B.1 Climate Action
Parameter	Net calorific value of the fuel used in the baseline (NCVb) (charcoal)
Data unit	TJ/ton
Default values used	0.0295
Purpose of data	NCVfuel was used in accordance with the methodology as a methodology default value.
Source of verification of the	IPCC default:
source	http://www.ipccnggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_1_ Ch1_Introduction.pdf_Table 1.2

Relevant SDG Indicator	SDG 13. B.1 Climate Action
Parameter	Net calorific value of the fuel used in the project (NCVp) (wood) $\label{eq:NCVp}$
Data unit	TJ/ton
Default values used	0.0156
Purpose of data	NCVfuel was used in accordance with the methodology as a methodology default value.
Source of verification of the	IPCC default:
source	http://www.ipccnggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_1_
	Ch1_Introduction.pdf_Table 1.2

Relevant SDG Indicator	SDG 13. B.1 Climate Action
Parameter	Net calorific value of the fuel used in the project (NCVp) (charcoal)
Data unit	TJ/ton
Default values used	0.0295
Purpose of data	NCVfuel was used in accordance with the methodology as a
	methodology default value.
Source of verification of the	IPCC default:
source	http://www.ipccnggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_1_
	Ch1_Introduction.pdf_Table 1.2

Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 3.9.1 (Good Health and Well-
	Being)
Parameter	Quantity of wood fuel that is used to treat 1 litre of water in baseline
	scenario b during year y (W _{b,y}) (wood)
Data unit	T/L
Default values used	0.0004
Purpose of data	Calculation of emission reductions
Source of verification of the	Baseline Water Boiling Test
source	

Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 3.9.1 (Good Health and Well-
	Being)
Parameter	Quantity of charcoal fuel that is used to treat 1 litre of water in
	baseline scenario b during year y (W _{b,y}) (charcoal)
Data unit	T/L
Default values used	0.0001
Purpose of data	Calculation of emission reductions
Source of verification of the	Baseline Water Boiling Test
source	

Relevant SDG Indicator	SDG 13. (Climate Action),
Parameter	Quantity of wood fuel that is used to treat 1 litre of water project
	scenario p during project year (W _{p,y}) (wood)
Data unit	T/L
Default values used	0.0004
Purpose of data	Calculation of emission reduction
Source of verification of the	Baseline Water Boiling Test
source	

Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 3.91 (Good Health and Well
	Being)
Parameter	Quantity of charcoal that is used to treat 1 litre of water project
	scenario p during project year (W _{p,y}) (charcoal)
Data unit	T/L
Default values used	0.0001
Purpose of data	Calculation of emission reduction
Source of verification of the	Baseline Water Boiling Test
source	

Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 6.1.1 (Clean Water and Sanitation)
Parameter	Portion of users of project safe water supply who were already in baseline using a non- boiling safe water supply. (C_j)
Data unit	%
Default values used	22.73%
Purpose of data	To calculate the additional number of persons having access to safe water in the project activity compared to the baseline scenario
Source of verification of the source	Baseline study /03-d/

Relevant SDG Indicator	SDG 13. B.1 (Climate action)
Parameter	Percentage of premises that in the absence of the project activity would have used non- GHG emitting technologies like chlorine treatment techniques (if available) in the project boundary. (X _{boil}) non suppressed demand.
Data unit	%
Default values used	1
Purpose of data	calculation of emission reductions

Source of verification of the source	Baseline study. Credible literature, studies, survey, reports, relevant
	to the project target area

Relevant SDG Indicator	SDG 5.4.1 (Gender Equality)
Parameter	Time spent collecting firewood per household per day before the project activity $(T_{b,y})$
Data unit	hours
Default values used	1.42
Purpose of data	To calculate TRy and quantify whether the project has contributed to a reduction in the amount of time spent collecting water and fuel compared to the pre-project scenario.
Source of verification of the source	Baseline study /03-d/

Relevant SDG Indicator	SDG 5.4.1 (Gender Equality)
Parameter	Percentage of persons boiling water in the baseline (Pb, boil)
Data unit	percentage
Default values used	83.64%
Purpose of data	Determination of number of persons boiling water in the baseline
Source of verification of the source	Baseline project survey /03-d/

Annex 2: Assessment of data and parameters monitored.

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action)
Data / Parameter:	Non-renewability status of woody biomass fuel in scenario i during
(as in monitoring plan of PDD):	year y (fNRB)
Unit	Non-Renewability Fraction
Measuring frequency/Time Interval:	Annual
Reported value	0.88
Verified Source of Data	CDM Default stated in following document:
	https://cdm.GS.int/Panels/ssc_wg/meetings/037/ssc_37_an14.pdf
Is measuring and reporting	Yes
frequency in accordance with the	
monitoring plan and monitoring	
Methodology ? (Tes / No)	
Assessment of details of	NA
specification and calibration as per	
the requirements of registered	
PDD:	
Does the data management (from	Yes, the data management ensures correct transfer of data and
data generation to emission	reporting of emission reductions and all necessary QA/QC
reduction calculation) ensure	processes are in place
correct transfer of data and	
reporting of emission reductions	
and are necessary QA/QC	
processes in place?	

In case only partial data are	NA
available because activity levels or	
non-activity parameters have not	
been monitored in accordance with	
the registered monitoring plan, has	
the most conservative assumption	
theoretically possible been applied	
or has a request for deviation been	
approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 6.1.1 (Clean Water and Sanitation)
Data / Parameter: (as in monitoring plan of PDD):	Number of persons consuming water supplied by project scenario p through year y $(N_{p, y})$
Unit	Project Technology Days
Measuring frequency/Time Interval:	Annual
Reported value	GS10735: 2,497,493 (Non-functional days 06) GS10736: 2,982,912 (Non-functional days 05) GS10737: 961,891 (Non-functional days 0)
Verified Source of Data	ER sheet /02/ project survey /03/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 6.1.1 (Clean Water and
	Sanitation), SDG 3.9.1 (Good Health and Well Being)

Data / Parameter:	Usage rate in project scenario p during year y. (U _{p,y})
(as in monitoring plan of PDD):	
Unit	%
Measuring frequency/Time Interval:	Annual
Reported value	100% (capped at 95%)
Verified Source of Data	Usage Survey /4/
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan	
and monitoring methodology? (Yes /	
Assessment of details of monitoring	ΝΔ
equipment, its specification and	
calibration as per the requirements of	
registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of data
generation to emission reduction	and reporting of emission reductions and all necessary QA/QC
calculation) ensure correct transfer of	processes are in place
reductions and are necessary $\Omega \Delta / \Omega C$	
processes in place?	
In case only partial data are available	YES
because activity levels or non-activity	
parameters have not been monitored in	
accordance with the registered	
conservative assumption theoretically	
possible been applied or has a request	
for deviation been approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 3.9.1 (Good Health and
	Well Being)
Data / Parameter:	Quantity of safe water supplied in the project scenario p
(as in monitoring plan of PDD):	during the year y using the zero or low emissions clean water
	supply technology (Q _{p,y})
Unit	Litres per person per day
Measuring frequency/Time Interval:	Biennial
Reported value	GS10735: Capped at 7I. (10.62I)
	GS10736 and GS10737: Capped at 7I. (9.02)
Verified Source of Data	Water Consumption Field Test (WCFT) /03-c/
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan and	
monitoring methodology? (Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of	
registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of data
generation to emission reduction	and reporting of emission reductions and all necessary
calculation) ensure correct transfer of	QA/QC processes are in place
data and reporting of emission	

reductions and are necessary QA/QC processes in place?	
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA
Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action), SDG 3.9.1 (Good Health and Well Being)
Data / Parameter: (as in monitoring plan of PDD):	Quantity of safe water boiled in the project scenario p per person per day using the zero or low emissions clean water supply technology (Qp, cleanboil, y)
Unit	Litres per person per day
Measuring frequency/Time Interval:	Biennial (Every 2 years)
Reported value	0 (All VPAs)
Verified Source of Data	Water Consumption Field Test (WCFT) /03-c/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action)
Data / Parameter:	The raw of unsafe water that is still boiled after installation of
(as in monitoring plan of PDD):	the water treatment technology (Q _{p,rawboil, y})
Unit	Litres per household per day
Measuring frequency/Time Interval:	Biennial

Reported value	0 (All VPAs)
Verified Source of Data	Water Consumption Field Test (WCFT) /03-c/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13.B.1 (Climate Action)
Data / Parameter:	Leakage in project scenario p during year y (LE _{p,y})
(as in monitoring plan of PDD):	
Unit	tCO ₂ e per year
Measuring frequency/Time Interval:	Biennial
Reported value	0 (All VPAs)
Verified Source of Data	Baseline and project surveys /03/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 5. (Gender Equality)
Data / Parameter:	Time spent collecting water per household per day in project.
(as in monitoring plan of PDD):	(Тр,у)
Unit	hours
Measuring frequency/Time Interval:	Annual
Reported value	GS10735: 0.95 hours GS10736 and GS10737: 1.11 hours
Verified Source of Data	Project Survey /03/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 6.1.1 (Clean Water and Sanitation)
Data / Parameter:	Quality of Treated Water
(as in monitoring plan of PDD):	
Unit	Parameters as per national standards
Measuring frequency/Time Interval:	Quarterly
Reported value	100% pass rate (capped at 92.7 by PP as per related
	deviation request)
	Of the WQTs conducted during the MP, the project achieved
	100% pass rate. This was capped in relation to the approved
	deviation request described in B.2
Verified Source of Data	
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan and	
monitoring methodology? (Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of	
registered PDD:	

Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	Yes

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 6.1.1 (Clean Water and Sanitation), SDG 3.9.1 (Good Health and Well-Being)
Data / Parameter:	Hygiene campaigns
(as in monitoring plan of PDD):	
Unit	Outcome of WASH meetings
Measuring frequency/Time Interval:	Annual
Reported value	
Verified Source of Data	
Is measuring and reporting frequency in	Yes
accordance with the monitoring plan and	
monitoring methodology? (Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of data
generation to emission reduction	and reporting of emission reductions and all necessary
calculation) ensure correct transfer of	QA/QC processes are in place
data and reporting of emission reductions	
and are necessary QA/QC processes in	
place?	
In case only partial data are available	NA
because activity levels or non-activity	
accordance with the registered	
monitoring plan has the most	
conservative assumption theoretically	
possible been applied or has a request	
for deviation been approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB	
Relevant SDG Indicator	SDG 6.1.1 (Clean Water and Sanitation), SDG 3.9.1 (Good	
	Health and Well-Being)	

Data / Parameter: (as in monitoring plan of PDD):	Number of persons having access to safe water from the project activity. (P_y)
Unit	Number
Measuring frequency/Time Interval:	Annual
Reported value	GS10735: 8,614 GS10736: 9,166 GS10737: 4,632 Cap of 300 users per borehole applied (GS10735)
Verified Source of Data	Usage Survey /04/ and WCFT/15/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

APPENDIX 7. Assessment of Safeguarding Principles

Safeguarding	Assessment Questions/ Requirements	How Project will achieve	Verification team assessment
Principles		Requirements through design,	
		management, or risk mitigation.	
Principle 1.	1. The Project Developer and the	NA.	NA.
Human Rights	Project shall respect internationally		
	proclaimed human rights and shall not		
	be complicit in violence or human rights		
	abuses of any kind as defined in the Universal		
	Declaration of Human Rights		
	2. The Project shall not discriminate with	NA.	NA.
	regard to participation and inclusion		
Principle 2.	1. The Project shall not directly or	Not relevant	Not relevant
Gender Equality	indirectly lead to/contribute to adverse		
	impacts on gender equality and/or the		
	situation of women		
	(a) Sexual harassment and/or any		
	forms of violence against women –		
	address the multiple risks of		
	genderbased violence, including sexual		
	exploitation or human trafficking.		
	(b) Slavery, imprisonment, physical and	Not relevant	Not relevant
	mental drudgery, punishment or		
	coercion of women and girls.		
	(c) Restriction of women's rights or	Not relevant	Not relevant
	access to resources (natural or		
	economic).		
	(d) Recognise women's ownership	Not relevant	Not relevant.
	rights regardless of marital status –		
	adopt project measures where possible		
	to support to women's access to inherit		
	and own land, homes, and other assets		
	or natural resources.		

2. Projects shall apply the p non-discrimination, equal tre and equal pay for equal wor (a) Where appropriate for th implementation of a PoA/VF volunteer work or community	rinciples of eatment, k: PA, paid, Y Equal participation men in decision r encouraged by pr equal membershi committees (WPC are trained to fac	n of women and Not rele naking is romoting their p on water point Cs). These WPCs litate the	vant
contributions will be organis provide the conditions for eq participation of men and wo identified tasks/activities.	ed to quitable men in the feedback on the regardless of the	embers ir specific hey also assist all pers to provide project, r situation.	
(b) Introduce conditions that participation of women or m Project activities and benefit pregnancy, maternity/patern marital status.	t ensure the en in ts based on hity leave, or	to benefit the Not rele equally and articipation in the pint committees	vant
(c) Ensure that these condit limit the access of women of the case may be, to PoA/VF participation and benefits.	ions do not r men, as PA	urages equal Not rele en and women.	vant
3. The Project shall refer to country's national gender st equivalent national commitr in assessing gender risks.	the rategy or nent to aid of a safe water so reduces the risk of pollution by remo	es the Not rele sure to water ugh the provision burce, and of household air ving the need for il water for	vant
4. (where required) Summa opinions and recommendat Expert Stakeholder(s)	ry of Not relevant	Not rele	vant

Principle 3. Community Health, Safety and Working Conditions	The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community	The project reduces the community exposure to water borne illness through the provision of a safe water source and reduces the risk of household air pollution by removing the need for households to boil water for purification.	The project involves the rehabilitation of borehole and verification team has done the assessment during remote interviews and found that no incidence of wate born disease or illness were happened from the proje implementation.		
Principle 4.1 Sites of Cultural and Historical Heritage	Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture?	Not relevant	Not relevant		
Principle 4.2 Forced Eviction and Displacement	Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	Not relevant	Not relevant		
Principle 4.3 Land Tenure and Other Rights	Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or access rights, usage rights or land ownership?	Not relevant	Not relevant		
Principle 4.4 Indigenous People	Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples?	NA.	NA.		
Principle 5. Corruption	The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	Communities involved in the projects are able to communicate any cases of corruption through the continuous input mechanism established for the projects. No instances of corruption have been reported in the monitoring period.	The project involves the rehabilitation of borehole and verification team has done the assessment during remote interviews and crosscheck the grievance logbook records and found users were only charged a nominal maintenance fee therefore, no instances of corruption have been reported in the monitoring period.		

Principle 6.1	1. The Project Developer shall ensure	NA.	NA.
Labour Rights	that all employment is in compliance		
_	with national labour occupational health		
	and safety laws and with the principles		
	and standards embodied in the ILO		
	fundamental conventions		
	2. Workers shall be able to establish and	NA.	NA.
	join labour organisations		
	3. Working agreements with all	NA.	NA.
	individual workers shall be documented		
	and implemented and include:		
	a. Working hours (must not exceed		
	48 hours per week on a regular		
	basis), AND		
	D. Dulles and lasks, AND		
	c. Remuneration (must include provision for payment of overtime)		
	d Modalities on health insurance		
	AND		
	e. Modalities on termination of the		
	contract with provision for		
	voluntary resignation by employee,		
	AND		
	f. Provision for annual leave of not		
	less than 10 days per year, not		
	including sick and casual leave.		
	4. No child labour is allowed	NA.	NA.
	(Exceptions for children working on		
	their families' property requires an		
	Expert Stakeholder opinion)		
	5. The Project Developer shall ensure	NA.	NA.
	the use of appropriate equipment,		
	training of workers, documentation and		
	reporting of accidents and incidents,		
	and emergency preparedness and		
	response measures		

Principle 6.2 Negative Economic Consequences	Does the project cause negative economic consequences during and after project implementation?	Community-orientated trainings on conducting minor maintenance were established at the beginning of the project. All breakdowns are recorded in the monitoring report and average functionality is well above 75%, shows that this initiative has been highly successful.	The project involves the rehabilitation of borehole and verification team has done the assessment during the remote interviews and found that no negative economic consequences were caused due the project implementation.
Principle 7.1 Emissions	Will the Project increase greenhouse gas emissions over the Baseline Scenario?	The project reduces greenhouse gas emissions compared to the baseline scenario.	Not Relevant
Principle 7.2 Energy Supply	Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	Not applicable	Not Relevant
Principle 8.1 Impact on Natural Water Patterns/Flows	Will the Project affect the natural or pre- existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	Not applicable	Not Relevant
Principle 8.2 Erosion and/or Water Body Instability	Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?	Not applicable	Not Relevant
Principle 9.1 Landscape Modification and Soil	Does the Project involve the use of land and soil for production of crops or other products?	Not applicable	Not Relevant

Principle 9.2 Vulnerability to Natural Disaster	Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	Not applicable	Not Relevant
Principle 9.3 Genetic Resources	Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	Not applicable	Not Relevant
Principle 9.4 Release of pollutants	Could the Project potentially result in the release of pollutants to the environment?	Not applicable	Not Relevant
Principle 9.5 Hazardous and Non-hazardous Waste	Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	Not applicable	Not Relevant
Principle 9.6 Pesticides & Fertilisers	Will the Project involve the application of pesticides and/or fertilisers?	Not applicable	Not applicable
Principle 9.7 Harvesting of Forests	Will the Project involve the harvesting of forests?	Not applicable	Not applicable.
Principle 9.8 Food	Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	Not applicable	Not Relevant
Principle 9.9 Animal husbandry	Will the Project involve animal husbandry?	Not applicable	Not Relevant
Principle 9.10 High Conservation Value Areas and	Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical	Not applicable	Not Relevant

Critical Habitats	habitats, landscapes, key biodiversity areas or sites identified?		
Principle 9.11 Endangered Species	Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? AND/OR Does the Project potentially impact other areas where endangered species may be present through transboundary affects?	Not applicable	Not Relevant

APPENDIX 8: Gold Standard Verification Protocol

CCIPL's Checklist question	Ref.	MoV ⁴	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?		I,	Yes, all the non-neutral indicators have been monitored as per the sustainability monitoring plan.	ОК	ОК
1.2 Have the methods to monitor data changed? And are they suitable to the project scale and type?		DR	Methods to monitor data have not changed as compared with the monitoring plan in the registered passport and monitoring plan.	ОК	ОК

CCIPL's Checklist question	Pof	Mo\/4	Findings, comments,	Draft	Final
	Ret.	MOV	references, data sources	conclusion	conclusion

⁴ MoV = Means of Verification, DR = Document Review, I = Interview, www = internet search.

1.3 Has the way of monitoring been followed? With the inclusion of dates and parameters?	I	The sustainability monitoring plan has been followed as described in the Passport.	ОК	ОК
1.4 Have mitigation measures been put in place to prevent the risk of the violation of the safeguarding principle of the "Do No Harm" assessment or to neutralize a Sustainable Development Indicator that is being monitored?	DR	The POA is the rehabilitation of borehole to the masses and doesn't involve any large set up or organization base that can be qualified as significant for a "Do Not Harm" procedures.	ОК	ОК
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?	I	Yes, all data in the sustainability development matrix have been verified and cross-checked from the supporting documents/data and during the remote interview.	ОК	ок
2. Other				
2.1 Are there any issues from the previous validation/verification? (ie FARs, requests / approvals for RMP)	DR	No	OK	ОК
2.2 Has the project ever received any requests for reviews or incompletes from the GS or GS Secretariat?	DR	No there are no requests for reviews or incomplete for the project.	OK	ОК
2.3 The evaluation of the status of mitigation and compensation measures has been verified.	DR,I	Yes, the status of mitigation and compensation measures has been verified.	ОК	ОК