



Verification and certification report form for Gold Standard project activities

BASIC INFORMATION

Title and GS reference number of the project activity	GSID:GS5125 Eritrea Community Boreholes
Scale of the project activity	☒ Large-scale ☐ Small-scale
Version number of the verification and certification report	05
Completion date of the verification and certification report	14/08/2026
Monitoring period number and duration of this monitoring period	5 th Monitoring Period 22/09/2023 – 31/12/2024 (including both the days)
Version number of the monitoring report to which this report applies	06, dated 27/07/2026
Crediting period of the project activity corresponding to this monitoring period	22/09/2023– 21/09/2030 (including both the days)
Project representative(s)	CO2balance
Host Party	State of Eritrea
Applied methodologies and standardized baselines	Emission reductions from Safe Drinking Water Supply v1.0
Mandatory sectoral scopes	03/3.1
Conditional sectoral scopes, if applicable	-
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	64,771 tCO ₂ e/year
Certified amount of GHG emission reductions or GHG removals for this monitoring period	59,471 tCO ₂ e during the current monitoring period
SDG Impacts:	1. SDG 1: No Poverty 2. SDG 5: Gender Equality 3. SDG 7: Affordable and Clean Energy 4. SDG 13: Climate Action 5. SDG 15: Life on Land
Name and UNFCCC reference number of the VVB	A6.4E-0001: Carbon Check (India) Private Ltd..

Name, position and signature of the approver
of the verification and certification report



Amit Anand, CEO

SECTION A. Executive summary

CO2balance has appointed Carbon Check (India) Private Ltd. (VVB)/10/ to undertake the performance certification of 5th Monitoring period of the GS project “Eritrea Community Boreholes” (GS project ID: GS 5125) for the period 22/09/2023 – 31/12/2024 (inclusive of both the dates), in accordance with the applicable requirements of the Gold Standard.

The project activity is implemented in Eritrea and involves the rehabilitation, maintenance, and operation of boreholes to provide safe drinking water to households. The start date of the project is on 21/09/2016/05/. The boreholes operate using emission free technologies, including hand pumps and solar powered systems, and are supported through community-based maintenance arrangements to ensure continued operation.

The project is implemented by CO2balance UK Ltd in partnership with Vita Ireland /07/. It is implemented in mainly in rural regions, including Zoba Debub and Zoba Anseba, where households mostly rely on boiling water using firewood for purification. By providing access to safe water at the source, the project reduces the need for water boiling, resulting in lower consumption of non-renewable biomass and associated greenhouse gas emissions. During the current monitoring period, the project activity also contributed to Sustainable Development Goals (SDGs) including SDG 1, SDG 5, SDG 7, SDG 13 and SDG 15.

This report summarises the findings of the verification of the project, performed on the basis of Gold Standard /B02/, as well as criteria provided for project implementation, monitoring and reporting and the subsequent decisions by the Gold Standard. 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, as well as the achievement of other SDGs mentioned above, resulting from the project activity during the defined monitoring period.

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

The objective of this verification is to verify and certify the emission reductions and SDG contributions reported for the project “Eritrea Community Boreholes” in the “State of Eritrea” for the monitoring period from 22/09/2023 to 31/12/2024 (including both the days).

The purpose of verification is to assess the monitoring results and verify that the monitoring methodology has been implemented in accordance with the approved monitoring plan/04/ and also to confirm the reductions in anthropogenic emissions by sources, is complete, reliable and presented in a consistent and transparent manner. Carbon Check’s objective is to perform a thorough, independent assessment of the registered project activity.

In particular, the verification includes an assessment of the monitoring plan, monitoring report, and the project’s compliance with applicable Gold Standard and host country requirements. This assessment is undertaken to confirm that the project activity has been implemented in accordance with the registered project design and the underlying conservative assumptions, as documented. The verification also assesses whether the monitoring plan remains consistent with the registered PDD /04/, the approved methodology /B03/, and other applicable Gold Standard requirements/B01/-/B-16/.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered GS-PD/04/
- To verify the implemented monitoring plan with the registered GS-PD/04/ and applied baseline and monitoring methodology /B03/.
- 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/ for the monitoring period from 22/09/2023 to 31/12/2024(including both days) and based on the registered GS-PD/04/, the approved monitoring plan and parameters, the emission reduction calculation spreadsheets /02/, the applied methodology /B03/, and supporting evidence provided by the project developer.

On-site inspections and interviews with relevant stakeholders are also conducted as part of the verification process.

Conclusion:

The verification team assigned by the Validation & Verification body (VVB) concludes that the monitoring report /01/, meets all relevant requirements of the Gold Standard /B01/-/B16/. The verification has been conducted in line with the applicable Gold Standard requirements of the Gold Standard.

The project activity has been implemented in accordance with the applied monitoring methodology /B03/, the approved monitoring plan and the registered PDD/04/. The monitoring system has been appropriately established and maintained, and the collected monitoring data allowed the verification of the amount of achieved GHG emission reductions. The following table provides the achieved emission reduction by the project activity, as verified through the document review and on-site interviews conducted by the verification team.

Vintage	VER (tCO₂e)
22/09/2023 – 31/12/2023	10,574 tCO ₂ e
01/01/2024-31/12/2024	48,897 tCO ₂ e
Total for the monitoring period	59,471 tCO ₂ e

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

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader / Verifier / Technical Expert	IR	A L	Hariprasath	Carbon Check	X	X	X	X

2.	Local Expert	ER ¹	Abraham Misgun	Negusse	Carbon Check	X	X	X	X
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Carbon Check India Private Limited also performed the previous design change validation of the VPA. The design change validation activities were conducted by Mr. Pankaj Kumar (Team Leader/Technical Expert), and the validation report was independently reviewed by Ms. Indumathi C (Technical Reviewer)..

Carbon Check India Private Limited also performed the previous Design Certification Renewal validation of the VPA. The Design Certification Renewal validation activities were conducted by Mr. Harish Sharma (Team Leader/Technical Expert/Validator/Local Expert), Ms. Shalini Yadav (Trainee Assessor), and Mr. Michael Mehreteab (Local Expert), and the validation report was independently reviewed by Ms. Indumathi C. (Technical Reviewer).

The current verification was performed by a separate verification team comprising Mr. Hariprasath A L (Team Leader/Technical Expert) and Mr. Abraham Misgun Negusse (Local Expert), and the verification report was independently reviewed by Mr. Ranganathan S(Technical Reviewer). The VVB confirms that the verification activities were conducted in accordance with the applicable requirements of Section 6.8.1 of the Validation and Verification Standard

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	ER	S	Ranganathan	Carbon Check
2.	Approver	IR	Anand	Amit	Carbon Check

Hariprasath A L: He is qualified as approved Gold Standard Auditor and Team Leader /Technical Expert in TA 1.2 ,3.1 and 13.2 and involved in various validations and verifications under VCS, GCC and Gold Standard (GS) projects. He has also attended Several Gold Standard DOE webinar training courses including training on GS4GG. He has completed ISO 14064-1, 14064-2 and 14064-3 training successfully. He holds a Bachelor of Science degree in Physics and Master of Science degree in Environmental Science from University of Calicut, Kerala, India..

Mr. Abraham Misgun Negusse: He was engaged by Carbon Check as a Local Expert (ER) to support the on-site verification activities under a formal contractual arrangement. He holds a Diploma in Electrical Engineering from Asmara Technical School, Eritrea, and has relevant experience as a Water and Habitat Technician with the International Committee of the Red Cross, including experience with solar-powered water supply systems and related infrastructure projects in Eritrea. Prior to his engagement, Carbon Check established the applicable contractual, confidentiality, impartiality/independence and conflict of interest arrangements and assessed his competence and suitability for the assigned activities based on his qualifications, relevant experience and local expertise. The activities performed by the Local Expert were undertaken under the direction and supervision of the Team Leader, while Carbon Check retained full responsibility for the verification activities, findings and opinion. The relevant engagement and competence records are maintained by Carbon Check in accordance with its documented procedures..

¹Mr. Abraham Misgun Negusse was engaged as a Local Expert (External Resource) by the VVB in accordance with Sections 7.5.2.2 to 7.5.2.4 of the Validation and Verification Body Requirements, v3.0. The VVB confirmed the competence of the external resource, ensured compliance with impartiality and confidentiality requirements.

Seshan Ranganathan: He holds a bachelor's degree in chemical engineering and has an overall working experience of around thirty-nine years with twenty-four years' experience in Chemical process industry (fertilizer & petrochemical manufacturing) covering production, technical services including energy audits and efficiency studies, waste heat -recovery, efficiency studies of boilers, power plants, safety audits and pollution control activities including wastewater treatment, project management, corporate planning, sales, logistics in fertilizer & petrochemical industry. The experience also includes 5 years in process design & engineering for chemical process industry. He is qualified validator, verifier and technical reviewer and has fifteen years' experience working with leading certification bodies. He is involved in the validation/verification of over 200 projects in various roles. Qualified lead as internal technical reviewer for validations and verifications GHG mitigation projects under CDM, VCS and GS and actively been involved in the validation and verification or internal technical review of GHG offset projects. He is qualified as technical expert for TA 1.1, 1.2, 3.1,5.1, 13.1 and 13.2 under CDM SS categorization. He is also qualified assessor in GS4GG

The Verification team comprised a Team Leader/Technical Expert and a Local Expert, while independent technical review and approval were undertaken by personnel not involved in the validation activities

SECTION C. Means of verification

C.1. Desk/document review

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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 below of this report.

C.2. On-site inspection

An onsite physical audit was conducted from 07/09/2025 to 12/09/2025/09/. The Team leader and the local expert have conducted the on-site inspection and in particular the acceptance sampling.

Furthermore, VVB has considered the Site Visit and Remote Audit Requirements and Procedures, version 2.0/B05/ for conducting the onsite visit in accordance with the requirements provided in the §3.1.1(b) of the Site Visit and Remote Audit Requirements and Procedures, version 1.0/B05/.

C.3. Interviews

No.	Interviewee ²			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	[REDACTED]	[REDACTED]	VITA	07/09/2025 - 12/09/2025	- Project Design - Organisation structure and Background - Project Location - Project Implementation - Project start date - Operation and maintenance - Baseline Scenario - Surveys - WCFT - Monitoring Parameters	Hariprasath A L, Negusse Abrahm

² VVB shall be submitting a complete confidential version containing all stakeholder names for Gold Standard records, and a public version with stakeholder names redacted

					• WASH • Monitoring & Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder Engagement & Grievance Mechanism	
2.			Director of Water Division Debub region	07/09/2025 - 12/09/2025	• Project Design • Organisation structure and Background • Project Location • Project Implementation • Project start date • Operation and maintenance • Baseline Scenario • Surveys • WCFT • Monitoring Parameters • WASH • Monitoring & Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder Engagement & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
3.			Director of Water Division Debub region	07/09/2025 - 12/09/2025	• Project Design • Organisation structure and Background • Project Location • Project	Hariprasath A L, Negusse Abrahm

					- Implementation • Project start date • Operation and maintenance • Baseline Scenario • Surveys • WCFT • Monitoring Parameters • WASH • Monitoring & Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder Engagement & Grievance Mechanism	
4.			Village Administrator	07/09/2025 - 12/09/2025	• Project Design • Organisation structure and Background • Project Location • Project Implementation • Project start date • Operation and maintenance • Baseline Scenario • Surveys • WCFT • Monitoring Parameters • WASH • Monitoring & Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder	Hariprasath A L, Negusse Abrahm

					Engagement & Grievance Mechanism	
5.			Water Committee member	07/09/2025 - 12/09/2025	• Project Design • Organisation structure and Background • Project Location • Project Implementation • Project start date • Operation and maintenance • Baseline Scenario • Surveys • WCFT • Monitoring Parameters • WASH • Monitoring & Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder Engagement & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
6.			Wash Expert	07/09/2025 - 12/09/2025	• Project Design • Organisation structure and Background • Project Location • Project Implementation • Project start date • Operation and maintenance • Baseline Scenario • Surveys • WCFT • Monitoring Parameters • WASH • Monitoring &	Hariprasath A L, Negusse Abrahm

					- Reporting • Sampling Approach • Project survey • Usage Survey • Roles & Responsibilities • Qualification & Training • QA/QC Procedures • Social and Environmental Impacts • Stakeholder Engagement & Grievance Mechanism	
7.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
8.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
9.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm

10.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
11.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
12.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
13.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt • Operational status & Maintenance • Baseline scenario • Usage and Household details • Surveys • Benefits & Impacts • Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
14.			End User	07/09/2025 - 12/09/2025	• Project technology • Date of Receipt	Hariprasath A L,

³ Wife of [REDACTED]

⁴ Husband of [REDACTED]

					- Operational status & Maintenance - Baseline scenario - Usage and Household details - Surveys - Benefits & Impacts - Stakeholder Consultation & Grievance Mechanism	Negusse Abrahm
15.			End User	07/09/2025 - 12/09/2025	- Project technology - Date of Receipt - Operational status & Maintenance - Baseline scenario - Usage and Household details - Surveys - Benefits & Impacts - Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
16.			End User	07/09/2025 - 12/09/2025	- Project technology - Date of Receipt - Operational status & Maintenance - Baseline scenario - Usage and Household details - Surveys - Benefits & Impacts - Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm
17.			End User	07/09/2025 - 12/09/2025	- Project technology - Date of Receipt - Operational status & Maintenance - Baseline scenario - Usage and Household details - Surveys - Benefits & Impacts - Stakeholder Consultation & Grievance Mechanism	Hariprasath A L, Negusse Abrahm

C.4. Sampling approach

The VVB has applied a sampling approach for verification activities in accordance with the Sampling and Surveys for CDM Project Activities and Programmes of Activities (Version 09.0) /B07/.

A sampling approach was applied for verification of selected monitoring activities, including project survey data. For this purpose, the VVB applied an acceptance sampling approach, in line with paragraph 26 and paragraph 28 of the sampling standard/B07/.

The sample size was determined based on Table 2 of the sampling standard /B07/, using the following parameters:

- Acceptable Quality Level (AQL): 0.5%
- Unacceptable Quality Level (UQL): 20%
- Producer's risk: 5%
- Consumer's risk: 10%

Based on these criteria, a sample size of 11 households was selected from a population of 120, with an acceptance number (c) of 0.

The samples were selected randomly from the survey records/17/. The VVB conducted on-site interviews and document reviews for the selected samples and cross checked the information reported in the monitoring surveys against supporting records and field observations /09/.

No discrepancies were identified in the sampled records. In accordance with paragraph 33 of the sampling standard /B07/, the sampled data are considered acceptable.

The VVB confirms that the sampling approach applied during verification is in accordance with the applicable sampling standard /B07/, and the results of the sampling support the reliability of the monitored data for the monitoring period.

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

The VVB has raised 06 clarifications (CLs) and 05 corrective action requests (CARs) and 00 FARs are raised during the verification process. All the identified are addressed and resolved by the PD. The detailed list of findings and their resolutions are provided in Appendix 4 of this document.

SECTION D. Verification findings

D.1. Remaining forward action requests from validation and/or previous verifications

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03 FARs were raised w.r.t to the Design Change Validation. Of these, one was issued by the VVB in the validation report and the other two FARs were raised by the gold standard in the project review report. These are discussed in detail in the appendix 4 of this report

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

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details.

Conclusion	The VVB has assessed the implementation and operation of the project activity against the registered PDD and the approved design change/04/ and the information provided in the monitoring report for the current monitoring period i.e, from 22/09/2023 – 31/12/2024/01/. The project activity involves the rehabilitation and maintenance of boreholes to provide safe drinking water, thereby reducing the need for water boiling using non-renewable biomass. The implemented technology, including hand pumps and solar-powered systems, is consistent with the registered PDD and approved design change /04/. The project activity is implemented by CO2balance UK Ltd in partnership with Vita Ireland. This has been verified against the registered PDD /04/, end-user agreements /06/, agreements between project participants /07/, and the project database /03/. No deviation in project participants or roles has been identified The VVB confirms that, under an approved design change, boreholes previously included under GS projects (GS5038, GS5825–27, GS7330–36, and GS5951–55) have been incorporated into the current project. These boreholes have completed their respective crediting periods and are not subject to re-validation under their original project IDs. This has been verified against the approved design change /04/ and crosschecked with publicly available registry information/B17/. The project boundary has been verified through the project database /03/, monitoring report /01/, and site visits /09/ and found to be consistent with the registered PDD /04/. The project is implemented within the defined geographical boundary covering Zoba Debub and Zoba Anseba regions in Eritrea. No deviation has been identified. Monitoring data are maintained in an electronic database /03/. The VVB confirms that the monitoring system is implemented in accordance with the monitoring plan defined in the registered/revised PDD /04/. Completeness and traceability of monitored parameters have been verified through cross-checks with the monitoring report /01/. The monitoring report has been prepared in accordance with the applicable monitoring report template and guidelines /B11/. The VVB confirms that the project boreholes systems are operational. This has been confirmed through onsite visits and interviews with end users/09/. Each borehole system has a unique identification number that has been verified through the review of end user agreement/06/, project database/03/ and physical markings/21/. The recorded information such as technology type, end user details, location and the start date were found consistent during the onsite verification. Operation and maintenance activities have been verified through maintenance records /08/ and site observations /09/. Water quality test reports /14/ have been reviewed. No changes have been identified that affect the project boundary, applied technology, monitoring methodology /B01/, or parameters relevant to emission reductions The VVB has verified through document review and publicly available sources /B06/ that the project is not registered under any other mechanism. This is further supported by Unique identification and database controls /03/. The PD has further provided declaration for the double counting./26/ A well established Continuous Input and Grievance Mechanism is available for project beneficiaries. The VVB reviewed the grievance mechanism described in the registered GS-PDD /04/, the Monitoring Report /01/, and the Continuous Input and Grievance Mechanism records /22/. The VVB confirmed that grievance logbooks were maintained at project locations within Zoba Debub and Zoba
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	Anseba and contained project contact details, Gold Standard contact information, and dedicated sections for recording stakeholder feedback and concerns. The VVB reviewed sample records maintained during the monitoring period, and confirmed that stakeholder feedback was recorded through the established mechanism. The VVB further confirmed through review of the Monitoring Report /01/, grievance records /22/, and stakeholder interviews conducted during the site visit /09/ that no unresolved grievances or legal disputes were reported during the monitoring period. The VVB therefore confirms that the Continuous Input and Grievance Mechanism has been implemented in accordance with the registered GS-PDD /04/ and applicable Gold Standard requirements. The VVB reviewed grievance logbooks maintained at multiple project locations across the project area, including locations in Zoba Debub and Zoba Anseba, and confirmed that the grievance mechanism is accessible to beneficiaries through community level records maintained at the project sites. The monitoring report /01/ has been compared with the registered/revised GS-PDD /04/ and found to be consistent. The verification team confirms that: a) The project activity is implemented in accordance with the registered GS-PDD /04/. b) The operation of the project activity is in line with the registered/revised GS-PDD /04/. c) The monitoring report /01/ is consistent with the registered PDD, monitoring plan, and applied methodology /B03/. Based on the review of the documents, the monitoring report and the onsite visit, the VVB confirms that the implementation and operation of the project activity are in accordance with the registered / revised GS-PDD/04/ for the current monitoring period.
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D.3. Post-registration changes

D.3.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents⁵

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The VVB has identified one deviation applicable to the current monitoring period.

The PD submitted a deviation request/13/ due to the absence of suitable technology to fully comply with the requirements of the applied methodology/B01/.

As per the approval provided by Gold Standard for the Global Goals, emission reductions may be claimed for the monitoring period up to 31/12/2024 for the following:

- Application of default values for water consumption per capita and
- Demonstration of a minimum 1200 litres/day water discharge per borehole, including consideration of seasonal variation, based on monitored data and sampling in accordance with Section 4.2 of the applied methodology /B01

The VVB confirms that the project proponent has applied a default water consumption value of 4 litres per person per day, as permitted under the approved deviation/13/.

⁵ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

To demonstrate compliance with the minimum discharge requirement, the project proponent conducted 5-minute stroke tests (5MST) on a sample of 58 randomly selected boreholes, in accordance with the sampling requirements defined in the methodology /B03/ and sampling procedures /18/.

The tests were conducted during the both wet and dry seasons and resulted the following:

- July 2024 (wet season): average discharge of 4,608 litres/day
- October 2024 (dry season): average discharge of 4,717 litres/day

The combined average discharge of 4,662 litres/day exceeds the minimum threshold of 1200 litres/day specified under the approved deviation

The VVB has reviewed the deviation request REC_DEV_462/13/, supporting stroke test reports /11/, procedures /12/, and approval documents/13/, and confirms that

- The deviation has been formally approved by Gold Standard;
- The conditions specified in the approval have been implemented; and
- The supporting evidence is consistent and sufficient to demonstrate compliance.

The VVB confirms that the deviation (REC_DEV_462)/13/ has been correctly applied and implemented in accordance with the approval provided by Gold Standard, and the requirements of the applied methodology /B03/ have been met for the current monitoring period

D.3.2. Corrections

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Not applicable

D.3.3. Changes to the start date of the crediting period

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Not applicable

D.3.4. Inclusion of a monitoring plan

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Not applicable

D.3.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

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N/A

D.3.6. Changes to the project design

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The VVB identifies that, under an approved design change, boreholes previously included under GS projects (GS5038-43, GS5825-27, GS7330-36, and GS5951-55) have been incorporated into the current project. These boreholes have completed their respective crediting periods and are not subject to re-validation under their original project IDs. This has been verified against the approved design change /04/ cross-checked with publicly available registry information /B17/ and the declaration submitted by the PD/26/

D.3.7. Changes specific to afforestation and reforestation project activities

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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	Please refer appendix 04 for details.
Conclusion	The VVB assessed the implementation of the monitoring plan defined in the registered/revised GS-PDD /04/ against the requirements of the applied methodology "Emission Reductions from Safe Drinking Water Supply v1.0" /B03/ and other applicable methodological requirements for the monitoring period. The VVB reviewed the monitoring report/01/, emission reduction calculation sheets/02/, project database/02/ and the supporting documents. Based on review of the documents, the VVB confirms that the monitoring activities implemented during the monitoring period are in line with the requirements of the applied methodology /B01/ and the monitoring plan defined in the registered/revised PDD /04/. The sampling approach applied for surveys and field measurements has been assessed against the requirements of the applied methodology /B03/ and applicable sampling standards /B07/. The VVB reviewed the sampling approach applied by the PD as described in the Monitoring Report /01/, Registered VPA-DD /04/, Project Survey records /17/, Usage Survey records /16/ and Random Sample Selection records /18/. The VVB confirmed that the sample selection process, sampling frame and sample size determination were implemented in accordance with the requirements of the registered VPA-DD/04/ and applicable methodology/B03/. The VVB has verified all the monitored parameters defined in the registered PDD/04/ w.r.t to the measurement and determination methods applied, the consistency and accuracy of data used for emission reduction calculations, and the implementation of QA/QC procedures. The VVB has also assessed the implementation of the approved deviation/13// w.r.t the monitoring requirements. The application of default values and verification of minimum water discharge through sampling-based field tests are found to be consistent with the conditions specified in the deviation approval and the requirements of the applied methodology /B03/. No inconsistencies have been identified between the monitoring plan, the applied methodology, and the monitoring practices implemented during the monitoring period. Based on the review of the documents, the monitoring report and the onsite visit, the VVB confirms that the monitoring plan, as implemented during the monitoring period, is in line with the requirements of the applied methodology /B01/ and other applicable methodological requirements, and is consistent with the registered/revised GS-PDD /04/.

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	Please refer appendix 04 for details
Conclusion	The VVB has reviewed the data and parameters fixed ex-ante as defined in the registered VPA-DD /03/ and the applied monitoring plan /04/, and confirmed that these are applied consistently in the monitoring report /01/ and emission reduction calculations. The VVB verified that the values remain unchanged from those specified at the time of design certification and are in accordance with the applied methodology requirements. Based on the review of the registered VPA-DD/04/, monitoring report /01/, and supporting documents, the VVB confirms that the data and parameters fixed ex-

	ante are applied appropriately and in compliance with the approved project documentation. Please refer to the Annex 1.
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D.5.2. Data and parameters monitored

Means of verification	Document Review, Interview							
Findings	Please refer appendix 04 for details							
Conclusion	The VVB has assessed the data and parameters monitored for the project activity for the monitoring period from 22/09/2023 to 31/12/2024, in accordance with the applied methodology “Emission Reductions from Safe Drinking Water Supply v1.0” /B03/, the registered GS-PD /04/, and the approved monitoring plan. The assessment included a review of the monitoring report /01/ and supporting documents provided by the PD to evaluate the implementation of monitoring procedures, data collection methods, and data management systems.							
	The assessment of the monitored parameter are as follows:							
	<table><tr><th>Parameter</th><th>Value</th><th>Assessment</th></tr><tr><td>SDWS 18: Mq,y</td><td>0.98 (average of 2023 and 2024 testing) 2023: 0.96 2024: 1.00</td><td> The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents/14/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/ and the applied methodology. The VVB reviewed the water quality test reports /14/ and confirmed that the tests were carried out by the National Water Quality Reference Laboratory in accordance with national standards. The VVB also reviewed the applicable sampling records/18/, including the sampling populations, random selection records and sample size determination, and confirmed that the water quality samples were selected in accordance with the approved sampling approach. The VVB confirmed that the applicable 90% confidence level and 10% relative precision were considered in the sample size determination and that the number of the samples applied exceed the calculated minimum sample size. The VVB reviewed the QA/QC procedures and confirmed that the laboratory meets the required accreditation and quality management requirements. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the monitoring report /01/, supporting documents /14/, and on-site observations /09/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. The requirement is met. </td></tr></table>			Parameter	Value	Assessment	SDWS 18: Mq,y	0.98 (average of 2023 and 2024 testing) 2023: 0.96 2024: 1.00
Parameter	Value	Assessment						
SDWS 18: Mq,y	0.98 (average of 2023 and 2024 testing) 2023: 0.96 2024: 1.00	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents/14/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/ and the applied methodology. The VVB reviewed the water quality test reports /14/ and confirmed that the tests were carried out by the National Water Quality Reference Laboratory in accordance with national standards. The VVB also reviewed the applicable sampling records/18/, including the sampling populations, random selection records and sample size determination, and confirmed that the water quality samples were selected in accordance with the approved sampling approach. The VVB confirmed that the applicable 90% confidence level and 10% relative precision were considered in the sample size determination and that the number of the samples applied exceed the calculated minimum sample size. The VVB reviewed the QA/QC procedures and confirmed that the laboratory meets the required accreditation and quality management requirements. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the monitoring report /01/, supporting documents /14/, and on-site observations /09/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. The requirement is met.						

	SDWS 20 Water hygiene education campaigns	-	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents/19/, and confirmed that activities related to water hygiene education campaigns have been implemented and reported in accordance with the approved monitoring plan. The VVB reviewed the supportive evidence/19/ related to the parameter and verified the report activities. The VVB assessed the data collection approach, including WASH training and activity records/19/, and confirmed that the monitoring approach is consistent with the monitoring plan. The VVB also reviewed the application of WHO/UNICEF JMP core questions, as applicable, and confirmed consistency with the reported information. The VVB further reviewed the WASH Campaign Reports /19/, /20/ and confirmed that WASH awareness campaigns were conducted across the project area during the monitoring period, including in Zoba Debub and Zoba Anseba. The VVB verified the campaign reports, attendance records, training materials and photographic evidence and confirmed that the campaigns covered topics including water committees, sanitation facilities, safe water chain, financial management of water revenues and local bylaws governing WASH facilities. The VVB reviewed the registered VPA-DD /04/, revised monitoring report /01/ and supporting monitoring records /19/ and confirmed that the implementation of WASH awareness activities and collection of JMP-based monitoring data covered the project area in accordance with the approved monitoring plan and requirements of the registered VPA-DD. During the on-site visit /09/, the VVB conducted interviews with selected households and confirmed that hygiene awareness activities have been carried out and that beneficiaries are aware of safe water and hygiene practices. The VVB assessed the monitoring frequency and confirmed that activities and related data have been monitored on an annual basis. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the monitoring report /01/, supporting documents /19/, and on-site observations /19/, the VVB confirms that the hygiene campaign activities have been implemented and reported in accordance with the approved monitoring plan. Therefore, the requirement is met.
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	SDWS 12: Xcleanboil,y	0	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents/17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan/04/. The VVB reviewed the project survey records/17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. This was further confirmed during the onsite visit interviews with the selected households. The VVB verified the reported value and confirmed that the survey has been conducted on an annual basis and that the sampling approach is representative of the project population. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents/17/, onsite visit observations/09/ and the monitoring report/01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. The requirement is met.
	SDWS 23: Qm,y	1,617,714 Litres/year	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /12//13/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/ and the approved deviation request/13/. The VVB reviewed the supporting documents /12//13/ which is used to determine the value of the parameter and assessed the data collection approach. The VVB confirmed that direct measurement through flow meters or sensors has not been applied during the monitoring period, as stated in the monitoring report. Instead, the value has been determined based on the average results of the 5-minute stroke test (5MST) and the corresponding crediting days, as described in REC_DEV_462/13/. The VVB further assessed the appropriateness of the applied method and confirms that the use of the 5MST is consistent with the approved methodology and deviation, which allows the use of field-based performance tests as a proxy in the absence of direct measurement technology. The 5MST is a recognized field testing approach for estimating borehole yield, wherein water output is measured under controlled pumping conditions and extrapolated to derive daily volume. The application of averaging across test results and scaling by crediting days is considered

			methodologically appropriate and consistent with the emission reduction calculations The VVB further cross-checked the operating days (D_{Op,y}) applied for boreholes incorporated through the approved design change against the corresponding transition dates and confirmed that the resulting Q_{m,y} values were calculated correctly. The VVB assessed the stroke test sampling records/18/ and confirmed that 58 boreholes were randomly selected from the defined project population for each of the wet and dry season testing campaigns. The VVB also assessed the implementation of the stroke test and confirms that the procedures (including controlled stroke rate, volume measurement, and duration) are in line with the approved deviation /13/. Therefore, the test results are considered reliable for the purpose of estimating the monitored parameter. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /12//13/ and /14/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved deviation/13/. Therefore, the requirement is met.
	SDWS 24: QPWp	4 L/person/ day	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /04/, and confirmed that the parameter has been applied in accordance with the approved monitoring plan /04/. The VVB has reviewed the applied methodology/B03/ and confirmed that the parameter has been applied using the default value, as allowed by the applied methodology. The VVB assessed the applied default value and confirmed that it is consistent with the requirements of the methodology and has been correctly applied in the calculations. The VVB also assessed the data management system and confirmed that the applied value is appropriately recorded and used in the emission reduction calculation sheets. Based on the review of the applied methodology/B03/ and the monitoring report /01/, the VVB confirms that the parameter has been applied in accordance with the approved monitoring plan. Therefore, the requirement is met.

	SDWS 25: HNp,y	3.9 - 2023 3.8 - 2024	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents /17/ and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in 2023 and 2024 in accordance with the monitoring plan and that the sampling approach was representative of the project population. This was further confirmed during the on-site visit through interviews/09/ with selected households. The VVB reviewed the survey results and confirmed the values of 3.9 for 2023 and 3.8 for 2024. The VVB verified that these values are appropriately reflected in the ER calculation. The VVB further cross checked the monitored household size against published studies relevant to Eritrea, including a rural household study conducted in Zoba Debub /23/, which reported an average household size of 5.27 persons per household, and a household demographic study conducted in Asmara /24/, which reported an average household size of 4.43 persons per household. The VVB confirmed that the value applied in the emission reduction calculations are conservative in comparison with the available reference data. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17//23//24/25/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. Therefore, requirement is met.
	SDWS 26: HHp,y	122 per CWS Total 35,278	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted on an annual

			basis in the year 2024 and that the sampling approach is representative of the project population. The VVB also reviewed the application of the usage criteria and confirmed that only premises meeting the defined usage frequency have been included. i.e, premises that use water at least once every two days are counted. This was further confirmed during the on-site visit through interviews with selected households. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. The requirement is considered to be met.
	SDWS 27: DOP,y	63.2 average days in 2023, 346.7 average days in 2024	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /08/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the maintenance log records /08/ used to determine the value of the parameter and assessed the data collection approach. The VVB confirmed that the operational days have been determined based on operation and maintenance records/08/, as allowed by the monitoring plan. The VVB verified the reported values against the maintenance logs /08/ and confirmed that the applied values are within the allowable limits specified in the methodology. During the on-site visit /09/, the VVB reviewed the maintenance records and confirmed that the operational status of the systems is consistent with the reported information. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /08/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. Therefore, requirement is met.
	SDWS 19: Up,y	100%	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents /16/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/.

			The VVB reviewed the usage survey records/16/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in accordance with the required monitoring frequency during the monitoring period and that the sampling approach is representative of the project population. During the on-site visit /09/, the VVB conducted interviews with selected households to verify the survey results and confirmed consistent with the reported usage. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /16/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. The requirement is considered to be met.
	SDWS 19: Tp,y	0.5 hours	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted during respective monitoring years and that the sampling approach is representative of the project population. During the on-site visit /09/, the VVB conducted interviews with selected households to verify the survey results and confirmed it consistent with the reported details. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and applied in accordance with the approved monitoring plan. Therefore, the requirement is met.

	SDWS 19: Paccess	100%	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in accordance with the required monitoring frequency during the monitoring period and that the sampling approach is representative of the project population. During the on-site visit /09/, the VVB conducted interviews with selected households to verify the survey results and confirmed it consistent with the reported details regarding access to safe water. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and reported in accordance with the approved monitoring plan. Therefore, the requirement is met.
	SDWS 19: TRy	46%	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in accordance with the required monitoring frequency during the monitoring period and that the sampling approach is representative of the project population. The VVB verified that the reported value has been arrived based on the comparison of time spent collecting water in the baseline and project scenarios. During the on-site visit /09/, the VVB conducted interviews with selected households to verify the survey results and confirmed it to be consistent with the reported reduction in time spent collecting water.

			The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and reported in accordance with the approved monitoring plan. Therefore, the requirement is met.
	SDWS 35: LEy	5%	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /03/, and the applied methodology/ B03/ and confirmed that the parameter has been applied in accordance with the approved monitoring plan /04/. The VVB reviewed the applied methodology/01/ and the registered PDD/04// related to the assessment of leakage emissions and confirmed that leakage emissions have been conservatively accounted for based on the applied methodology. The VVB confirmed that an ex-ante assessment has been conducted and that leakage emissions are considered to be below the threshold, and therefore a conservative adjustment has been applied. The VVB verified that the applied approach is consistent with the monitoring plan and that the corresponding adjustment has been correctly applied in the emission reduction calculations. Based on the review of the documents /04//B03/ and the monitoring report /01/, the VVB confirms that the parameter has been applied in accordance with the approved monitoring plan. The requirement is considered to be met.
	SDWS 19: Np,y	134,056	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in accordance with the required monitoring frequency during the monitoring period and that the sampling approach is representative of the project population. The VVB verified the reported value against the survey records /17/ and cross-checked with related parameters, including the number of premises served and average household size. This was further confirmed

			during the site visit interviews with the selected households. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and reported in accordance with the approved monitoring plan. Therefore, the requirement is met.
	SDWS 19: Project Basic	100%	The VVB reviewed the monitoring procedures described in the monitoring report /01/, the registered VPA-DD /04/, and supporting documents /17/, and confirmed that the parameter has been monitored in accordance with the approved monitoring plan /04/. The VVB reviewed the project survey records /17/ used to determine the value of the parameter and assessed the data collection approach, including the sampling design and monitoring frequency. The VVB confirmed that the survey has been conducted in accordance with the required monitoring frequency during the monitoring period and that the sampling approach is representative of the project population. This was further confirmed during the site visit interviews w.r.t to the details regarding the access to basic water services. The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived. Based on the review of the supporting documents /17/, on-site observations /09/, and the monitoring report /01/, the VVB confirms that the parameter has been monitored and reported in accordance with the approved monitoring plan. Therefore, requirement is met.
	The VVB reviewed the annual monitoring survey conducted in December 2023 /29/ and the project and usage surveys conducted between 18/11/2024 and 23/11/2024 /16//17/. Based on the review of the survey records, the VVB confirmed that monitoring surveys were implemented on an annual basis during the monitoring period and are consistent with the monitoring frequency requirements specified in the registered PDD /04/. The VVB compared the results of the annual monitoring survey conducted in December 2023 /29/ with the project and usage surveys conducted between 18/11/2024 and 23/11/2024 /16//17/ and reviewed the operation and maintenance records /08/. The VVB confirmed that no material changes affecting project implementation, borehole operation, or usage conditions occurred during the monitoring period. The VVB therefore considers the survey results representative of the project conditions during the monitoring period 22/09/2023–31/12/2024.		

	The VVB confirms that the monitoring system has been implemented in accordance with the approved monitoring plan /04/ and the applicable requirements of the applied methodology/B03/
	The VVB reviewed the monitoring report /01/, emission reduction calculation sheets /02/, project database /03/, operation and maintenance records /08/, stroke test records /11/, water quality test reports /14/, project survey records /17/, usage survey records /16/, WASH campaign records /19/, grievance records /22/ and other supporting documents covering the monitoring period from 22/09/2023 to 31/12/2024. Based on the review, the VVB confirmed that a complete set of monitoring data required under the registered VPA-DD /04/ and the applied methodology /B03/ was available for the monitoring period and used in the determination of emission reductions. No material data gaps affecting the verification outcome were identified
	The VVB assessed the monitoring approaches for all the relevant parameters and confirmed that appropriate procedures have been established for data collection, data management, and reporting, and that the monitoring frequency and methodologies applied are consistent with the monitoring plan.
	The VVB also assessed the data management system and confirmed that monitoring data are appropriately recorded, stored, and archived.
	Based on the review of the monitoring report /01/, supporting documents emission reduction calculation sheets/02/, and on-site observations /09/, the VVB confirms that all monitored parameters have been appropriately monitored and applied in accordance with the approved monitoring plan/04/ and the applicable requirements of the Gold Standard. Therefore, the requirements for data and parameters monitored are considered to be met.

D.5.3. Implementation of sampling plan

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB assessed the implementation of the sampling plan as defined in the registered PDD /04/ and the monitoring report /01/ against the requirements of the applied methodology /B01/. As per the monitoring plan, boreholes are sampled, and households are selected through a random sampling approach using the project database /03/. The VVB confirms that the sampling approach, including sample selection and sampling framework, has been implemented in line with the procedures defined in the monitoring plan. The monitoring plan specifies a cross-sampling approach, with project and usage surveys conducted at the frequencies defined in the monitoring plan. The VVB reviewed the annual monitoring survey conducted from 12/12/2023 to 15/12/2023 /29/ and the project and usage surveys conducted from 18/11/2024 to 23/11/2024/16//17/.The VVB also reviewed the Project Database /03/, random sample selection records /18/ and the registered PDD /04/ to assess the applicability of the December 2023 survey to the GS5125 project population. Based on the review, the VVB confirmed that the December 2023 survey included boreholes that were part of the original GS5125 project population. The VVB also confirmed that the boreholes incorporated into GS5125 through the approved design changes. The interval between the December 2023 and November 2024 surveys was less than 12 months. Therefore, the VVB confirms that the required annual monitoring frequency was maintained for the original GS5125 project population during the monitoring period.

	The VVB reviewed the Project Survey records /17/, Usage Survey records /16/, Random Sample Selection records /18/ and the sampling requirements specified in the registered VPA-DD /04/. The VVB reviewed the sampling spreadsheets for the monitored parameters, including the defined sampling population, sampling procedure, selected samples, random number generation records and sample-size calculations. For the household water quality tests, the VVB reviewed the sampling records and supporting randomisation evidence and confirmed that the samples were selected from the defined project population using the documented sampling approach. The VVB also reviewed the sample size determination and confirmed that the applicable 90% confidence level and 10% relative precision requirement were considered, and that the number of samples collected exceeded the minimum sample size of 30 specified in the applied methodology /B01/ For the stroke tests, the VVB reviewed the wet- and dry-season random sampling records and the corresponding stroke test reports /11/.The VVB confirmed that the selected samples were taken from the defined the project population and were representative of the monitored project area. During the on-site visit /09/, the VVB cross checked sampled households against survey records and beneficiary interviews and confirmed consistency between the monitored data and supporting evidence. Based on the assessment, the VVB confirms that the sampled parameters were monitored using representative samples in accordance with the approved monitoring plan and applicable requirements. Based on the review of the sampling records, sample size calculations and monitoring results, the VVB confirmed that the sampling design and the sample size applied during the monitoring period were consistent with the applicable monitoring requirements. The VVB verified the implementation of monitored parameters derived through sampling, including water consumption parameters, number of users served (Np,y), and water quality, has been verified through review of survey records, project database /03/, and site visit verification/09/. The VVB has reviewed the water quality test records/14/ and confirmed that the monitoring results were consistent with the monitoring plan. The VVB confirms that QA/QC procedures related to sampling and data collection have been implemented, including cross checks of survey data with the project database /03/ and verification during site visits /09/. Based on the documents reviewed, sampling records, sample size calculations and onsite verification, the VVB confirms that the sampling plan, as defined in the registered PDD /04/, has been implemented in line with the applicable requirements of the applied methodology /B01/ during the monitoring period.
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D.6. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has assessed the applicability of calibration requirements for measuring instruments in accordance with the monitoring plan defined in the registered PDD /B03/ and the applied methodology /B01/. The monitoring plan does not require the use of continuous measuring instruments subject to calibration for the current monitoring period. Monitoring is

	primarily based on surveys, field tests, and supporting documentation. Accordingly, no calibration requirements are applicable. The VVB identified that the parameter Qm,y (SDWS 23) w.r.t to the monitored quantity of safe water provided, is not directly measured using flow meters or sensors during the current monitoring period. As described in the monitoring report, this parameter is not applied due to the absence of suitable measurement technology. Instead, the project applies an alternative approach in line with the approved deviation (REC_DEV_462)/15/, using field-based testing (5-minute stroke tests) and derived calculations. The field tests have been conducted in accordance with the procedures defined under the deviation approval/15/, and the resulting values have been used in emission reduction calculations /02/. Therefore, calibration requirements associated with continuous measurement devices are not applicable for this monitoring period. The VVB confirms that monitoring activities, including usage surveys, water consumption field tests, water quality tests, and related assessments, have been implemented by the project team. The implementation has been verified through review of training records /19/ and onsite interviews /09/, confirming that personnel responsible for monitoring activities are trained and competent. No inconsistencies have been identified with respect to calibration requirements for measuring instruments during the monitoring period. Therefore, VVB concludes that the calibration requirements for measuring instruments are not applicable for the monitoring period, and the monitoring approach adopted, including the application of the approved deviation (REC_DEV_462)/13/, is in line with the requirements of the registered PDD /04/ and the applied methodology /B01/.
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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	Please refer appendix 04 for details
Conclusion	The VVB has assessed the calculation of baseline GHG emissions in accordance with the applied methodology/B03/. The baseline emissions are calculated based on the quantity of fuel that would have been used for water boiling in the absence of the project activity. The VVB confirms that the baseline emission calculation follows the methodological approach defined in /B01/, including the application of relevant parameters such as the fraction of non-renewable biomass (fNRB), net calorific value (NCV), and emission factors for CO₂ and non-CO₂ emissions. The VVB has verified the baseline emission equation in the emission reduction calculation sheets /02/ and confirms that: • The formula applied is consistent with the requirements of the applied methodology /B01/ • The input parameters used in the calculation are consistent with those defined in the registered PDD /04/ and the applied methodology/B01/ • The calculation has been applied correctly for the monitoring period. The data used in the baseline emission calculation, including the quantity of fuel consumption avoided, has been verified against monitored parameters and supporting data sources and documents, including survey results /16/, /17/, and the project database /03/.

	The VVB has reviewed the Emission reduction calculation sheet/02/ and the monitoring report/01/ and confirmed that the calculated the baseline emissions reported in the Monitoring report and the calculation in the ER sheet are consistent. The reported baseline emission for the current monitoring period is 59,471 tCO₂e. No inconsistencies have been identified in the calculation of baseline emissions. Based on the review, the VVB confirms that the baseline GHG emissions have been calculated in accordance with the applied methodology /B01/, using parameters and data consistent with the registered PDD /04/, and that the calculations are correctly applied for the current monitoring period.
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D.7.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has assessed the calculation of project GHG emissions in accordance with the applied methodology /B01/ and the registered GS-PDD /04/. As per the applied methodology, project emissions are determined based on the quantity of fuel consumed in the project scenario for water treatment purposes. Based on the monitoring report /01/, survey results /16/ and /17/, and site visits /09/, the VVB confirms that households do not boil water supplied by the project systems. Accordingly, the quantity of fuel consumed in the project scenario is considered to be zero, and project emissions are calculated as zero for the monitoring period The VVB has verified the project emission calculation in the emission reduction calculation sheets /02/ and confirms that: • The formula applied is consistent with the requirements of the applied methodology /B01/ • The assumption of zero fuel consumption in the project scenario is supported by monitored data and • The calculation has been applied correctly for the monitoring period. No inconsistencies have been identified in the calculation of project emissions. The VVB confirms that project GHG emissions are zero for the monitoring period, in line with the applied methodology /B01/.

D.7.3. Calculation of leakage GHG emissions

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has assessed leakage emissions in accordance with the applied methodology /B01/ and the registered PDD /04/. As per the monitoring plan and methodology requirements, leakage is to be assessed through periodic surveys, which may be combined with monitoring surveys. The VVB has reviewed the monitoring report /01/ and survey records /16/ and /17/ to assess potential sources of leakage. The project activity does not involve the distribution of improved or efficient fuel-based technologies, but instead eliminates the need for water boiling by providing

	safe drinking water. Based on this project design, no sources of leakage emissions have been identified. The VVB has verified the leakage assessment presented in the monitoring report /01/ and confirms that no leakage emissions have been reported. This has been further checking with the survey records and from the site visit interviews/09/. No inconsistencies have been identified in the assessment of leakage emissions. Based on the review, the VVB confirms that leakage emissions are zero for the monitoring period, in line with the applied methodology /B01/.
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D.7.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has assessed the calculation of GHG emission reductions for the monitoring period based on the verified baseline emissions, project emissions, and leakage emissions. The Emission Reductions are calculated in accordance with the applied methodology using the following equation (1), $ER_y = BE_y - PE_y - LE_y$ Where, BE_y=Baseline emissions PE_y=Project emissions LE_y= Leakage emissions Based on the assessment, the calculations of emissions are as follows: Baseline emissions= 125,527 tCO₂e Project emissions= 0 Leakage emissions= 0 Accordingly, the total emission reductions for the monitoring period .ie, E_{ry} is 125,527 tCO₂e. The VVB has crosschecked the emission reductions reported in the monitoring report /01/ with the emission reduction calculation sheets /02/ and confirms to be consistent. No inconsistencies have been identified in the calculation of emission reductions. Based on the review, the VVB confirms that the GHG emission reductions for the monitoring period have been calculated correctly and are in accordance with the applied methodology /B01/ and the registered PDD /04/.

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

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has compared the actual GHG emission reductions achieved during the monitoring period with the ex-ante estimates provided in the registered PDD /04/.

	The ex-ante estimate value of the emission reductions for the monitoring period as per the registered GS-PD/04/ is 64,771 tCO ₂ e and the actual emission reductions achieved for the monitoring period is 59,471 tCO ₂ e.		
	SDG	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
	SDG 13 Climate Action	64,771 tCO ₂ e	59,471 tCO ₂ e
	SDG 1 (No Poverty)	20% of population living in households with access to basic services (water treatment)	100% of population living in households with access to basic services (water treatment)
	SDG 5 Gender Equality	53% reduction in time spent collecting water for project activity in year y	46% reduction in time spent collecting water for project activity in year y
	SDG 7 Affordable and clean energy	31,771 households with access to Safe Water from a clean treatment technology	35,278 households with access to Safe Water from a clean treatment technology
	SDG 15 Life on Land	33,215 tonnes of non-renewable firewood saved in the project scenario per year	30,915 tonnes of non-renewable firewood saved in the project scenario in this MP (57,393 per 365 days)
The VVB has verified that the methodology, baseline assumptions, and calculation approach remain unchanged from those defined in the registered PDD /04/. The VVB reviewed the SDG Impact Tool /28/ for the current monitoring period and cross checked the reported SDG impacts against the monitoring report /01/, emission reduction calculations /02/, project survey records /17/ and supporting documents /19/. The VVB confirmed that the reported SDG impacts are consistent with the verified monitoring data and supporting evidence reviewed during the verification. No inconsistencies have been identified in the comparison between estimated and actual emission reductions. The VVB confirms that the actual GHG emission reductions for the monitoring period have been calculated in accordance with the applied methodology /B01/ and the registered PDD /04/. The differences between the ex-ante estimates and actual emission reductions are supported by monitored data.			

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

Means of verification	Document Review, Interview
Findings	Please refer appendix 04 for details
Conclusion	The VVB has assessed the differences between the ex-ante estimates provided in the registered GS-PDD /04/ and the actual values achieved during the monitoring period, based on the monitoring report /01/ and supporting documents. For GHG emission reductions (SDG 13), the ex-ante estimate for the monitoring period is 64,771 tCO₂e, while the actual emission reductions achieved are 59,471 tCO₂e, representing a decrease compared to the estimated value. This difference is due to variations in monitored parameters during the monitoring period. The VVB confirms that the emission reductions have been calculated using monitored data in line with the applied methodology /B01/.

	For the SDG indicators, the VVB has reviewed the explanations provided in the monitoring report /01/ and the remarks included in the registered PDD /04/ and the assessment are as follows: • SDG 1 (No Poverty): The actual monitored value of the proportion of households with access to basic water treatment services is higher than the ex-ante estimate. This is supported by survey results indicating a reduction in the time required for water collection by end users. • SDG 5 (Gender Equality): The actual reduction in time spent collecting water shows a decrease compared to the estimated value. The reported value is based on monitored data • SDG 7 (Affordable and Clean Energy): The actual number of households with access to safe water shows an increase compared to the estimated value. This is due to the changes in monitored parameters, including project usage rates. • SDG 15 (Life on Land): The actual quantity of non-renewable firewood saved shows an increase compared to the estimated value. The reported value is based on monitored data and applied calculation procedures The VVB confirms that the methodology, baseline assumptions, and calculation approach remain unchanged from the registered PDD /04/. The VVB confirms that the differences between ex-ante estimates and actual values are supported by monitored data and are consistent with the implementation of the project during the monitoring period.
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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 Carbon Check's qualification scheme for GS validation and verification.

SECTION F. Verification/Certification opinion

Carbon Check (India) Private Ltd. (Carbon Check) has performed the verification of the 5th monitoring period of the registered GS Project Activity "Eritrea Community Boreholes", (GS project ID: GS 5125) for the period 22/09/2023 – 31/12/2024 (inclusive of both the dates), in accordance with the applicable requirements of the Gold Standard.

The verification team assigned by the VVB concludes that the project activity as described in the GS PD/04/ 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 contractual relationship signed /10/ between the VVB, Carbon Check (India) Private Ltd. and the Project Participant. The team assigned to the verification meets the CARBON CHECK's internal procedures including the UNFCCC/GS requirements for the team composition and competence. The verification team has conducted a thorough contract review as per UNFCCC and Carbon Check'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 GS-PD /04/, including the monitoring plan and the corresponding validation report /04/;

- 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
- On-site inspection (07/09/2025 -12/09/2025)
- Resolution of CARs and CLs raised during this verification
- Resolution of FARs raised during previous verification
- Independent Technical Review
- Issuance of Verification Report

The project activity was correctly implemented according to selected monitoring methodology /B01/, monitoring plan and the registered GS-PD /04/. 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. Based on the document review, the verification team confirms that the project activity has resulted in the 59,471 tCO₂e emission reductions during the reported monitoring period /01/.

This statement covers verification period from 22/09/2023 – 31/12/2024 (including both the dates).

The VVB has raised 06 clarifications and 05 corrective action requests and 00 Forward Action Requests, all of which are raised and closed successfully.

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 GS-PDD/04/ are fairly stated.

The VVB, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to the 59,471 tCO₂e equivalent and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records.

Vintage	VER (tCO₂e)
22/09/2023 – 31/12/2023	10,574 tCO ₂ e
01/01/2024-31/12/2024	48,897 tCO ₂ e
Total for the monitoring period	59,471 tCO ₂ e

Appendix 1. Abbreviations

Abbreviations	Full texts
AQL	Accepted Quality Level
ASP	Acceptance Sampling Plan
BE	Baseline Emissions
CA	Corrective Action/ Clarification Action
CER	Certified Emission Reduction
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent
CTF	Carbon Transfer Form
DVR	Draft Verification Report
EB	CDM Executive Board
EF	Emission Factor
FA	Final Approval
FAR	Forward Action Request
FVR	Final Validation Report
GHG	Greenhouse gas(es)
GS	Gold Standard
GWh	Giga Watt Hour
HH	Household
LE	Leakage Emissions
MP	Monitoring Period
MR	Monitoring Report
MST	Meter Stroke Test
NA	Not Applicable
OSV	On Site Visit
PDD	Project Design Document
PE	Project Emissions
PP(s)	Project Participant(s)
PRC	Post registration change
PS	Project Survey
QC/QA	Quality Control/ Quality Assurance
RCF	Repair Confirmation Form
SDG	Sustainable Development Goals
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
UQ	Unacceptable Quality Level
US	Usage Survey
VER	Verified Emission Reduction
VVS	Validation and Verification Standard
VVB	Validation & Verification body
WCFT	Water Consumption Field Test

WBT	Water Boiling Test
WQT	Water Quality Test
w.r.t	With Respect to

Appendix 2. Competence of team members and technical reviewers

Carbon Check (India) Private Limited

Certificate of Competency

Hariprasath A L

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- | | | | |
|--|---|--|---|
| ☐ Management Function | ☐ Administrative | ☒ Validator/Verifier | ☒ Team Leader |
| ☐ Acting Team Leader | ☒ Technical Expert | ☐ Technical Reviewer | ☐ Trainee Assessor |
| ☒ Assessor | ☒ Regional Expert | ☐ Gender Expert | ☐ Financial Expert |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">India</div> | | | |
| ☐ Plastic Waste Expert | ☐ Health Expert | ☐ CCB Expert | ☒ SDG Expert |
| ☒ Expert Social Aspect | ☒ Expert Environmental Aspect | ☐ Internal Auditor | ☐ Legal Expert |
| ☒ FOEN Approved Technical Expert | ☐ FOEN Approved Quality Officer | | |

in the following Technical Areas:

- ☐ PWRP 2 - Plastic Waste Collection & Recycling
- ☐ TA 1.1 - Thermal energy generation
- ☒ TA 1.2 - Renewable Energy generation
- ☐ TA 10.1 - Fugitive emissions from oil and gas
- ☐ TA 13.1 - Solid waste and Wastewater ☒ TA 13.2 - Manure
- ☐ TA 14.1 - Afforestation and reforestation (except REDD & REDD+)

- ☐ TA 14.1 - Afforestation and reforestation (only REDD & REDD+)
- ☐ TA 15.1 - Agriculture (With Model Validation)
- ☐ TA 15.1 - Agriculture (Without Model Validation)
- ☐ TA 16.1 Carbon Capture and Storage ☐ TA 2.1 - Energy Distribution
- ☒ TA 3.1 - Demand Side Energy Efficiency
- ☐ TA 4.1 - Cement and Lime Production
- ☐ TA 4.n - Waste Heat Recovery & Fuel Switch ☐ TA 5.1 - Chemical Industry
- ☐ TA 5.2 - Caprolactam, Nitric and Adipic Acid ☐ TA 7.1 - Transport
- ☐ TA 8.1 - Mining/Mineral Production
- ☐ TA 9.1 - Aluminium and magnesium production
- ☐ TA 9.2 - Iron, Steel and Ferro-alloy Production
- ☐ TA PWRP 1 - Plastic Waste Collection & Recycling

Issue Date 26-11-2025 **Expiry Date** 26-11-2026

Vikash Kumar Singh
Director - Compliance

Carbon Check (India) Private Limited

Certificate of Competency

Negusse Abraham Misgun

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- | | | | |
|---|--|---|---|
| ☐ Management Function | ☐ Administrative | ☐ Validator/Verifier | ☐ Team Leader |
| ☐ Acting Team Leader | ☐ Technical Expert | ☐ Technical Reviewer | ☐ Trainee Assessor |
| ☐ Assessor | ☒ Regional Expert | ☐ Gender Expert | ☐ Financial Expert |
| | <div>Eritrea</div> | | |
| ☐ Plastic Waste Expert | ☐ Health Expert | ☐ CCB Expert | ☐ SDG Expert |
| ☐ Expert Social Aspect | ☐ Expert Environmental Aspect | ☐ Internal Auditor | ☐ Legal Expert |
| ☐ FOEN Approved Technical Expert | ☐ FOEN Approved Quality Officer | | |

in the following Technical Areas:

- ☐ PWRP 2 - Plastic Waste Collection & Recycling
- ☐ TA 1.1 - Thermal energy generation
- ☐ TA 1.2 - Renewable Energy generation
- ☐ TA 10.1 - Fugitive emissions from oil and gas
- ☐ TA 13.1 - Solid waste and Wastewater ☐ TA 13.2 - Manure
- ☐ TA 14.1 - Afforestation and reforestation (except REDD & REDD+)

- ☐ TA 14.1 - Afforestation and reforestation (only REDD & REDD+)
- ☐ TA 15.1 - Agriculture (With Model Validation)
- ☐ TA 15.1 - Agriculture (Without Model Validation)
- ☐ TA 16.1 Carbon Capture and Storage ☐ TA 2.1 - Energy Distribution
- ☐ TA 3.1 - Demand Side Energy Efficiency
- ☐ TA 4.1 - Cement and Lime Production
- ☐ TA 4.n - Waste Heat Recovery & Fuel Switch ☐ TA 5.1 - Chemical Industry
- ☐ TA 5.2 - Caprolactam, Nitric and Adipic Acid ☐ TA 7.1 - Transport
- ☐ TA 8.1 - Mining/Mineral Production
- ☐ TA 9.1 - Aluminium and magnesium production
- ☐ TA 9.2 - Iron, Steel and Ferro-alloy Production
- ☐ TA PWRP 1 - Plastic Waste Collection & Recycling

Issue Date 03-11-2025 **Expiry Date** 03-11-2026

Vikash Kumar Singh
Director - Compliance

Carbon Check (India) Private Limited

Certificate of Competency

Seshan Ranganathan

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- | | | | |
|--|--|--|---|
| ☐ Management Function | ☐ Administrative | ☒ Validator/Verifier | ☒ Team Leader |
| ☐ Acting Team Leader | ☒ Technical Expert | ☒ Technical Reviewer | ☐ Trainee Assessor |
| ☐ Assessor | ☒ Regional Expert | ☐ Gender Expert | ☐ Financial Expert |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">India</div> | | | |
| ☐ Plastic Waste Expert | ☐ Health Expert | ☐ CCB Expert | ☐ SDG Expert |
| ☐ Expert Social Aspect | ☐ Expert Environmental Aspect | ☐ Internal Auditor | ☐ Legal Expert |
| ☐ FOEN Approved Technical Expert | ☐ FOEN Approved Quality Officer | | |

in the following Technical Areas:

- ☐ PWRP 2 - Plastic Waste Collection & Recycling
- ☒ TA 1.1 - Thermal energy generation
- ☒ TA 1.2 - Renewable Energy generation
- ☐ TA 10.1 - Fugitive emissions from oil and gas
- ☒ TA 13.1 - Solid waste and Wastewater ☒ TA 13.2 - Manure
- ☐ TA 14.1 - Afforestation and reforestation (except REDD & REDD+)

- ☐ TA 14.1 - Afforestation and reforestation (only REDD & REDD+)
- ☐ TA 15.1 - Agriculture (With Model Validation)
- ☐ TA 15.1 - Agriculture (Without Model Validation)
- ☐ TA 16.1 Carbon Capture and Storage ☐ TA 2.1 - Energy Distribution
- ☒ TA 3.1 - Demand Side Energy Efficiency
- ☐ TA 4.1 - Cement and Lime Production
- ☐ TA 4.n - Waste Heat Recovery & Fuel Switch ☒ TA 5.1 - Chemical Industry
- ☐ TA 5.2 - Caprolactam, Nitric and Adipic Acid ☐ TA 7.1 - Transport
- ☐ TA 8.1 - Mining/Mineral Production
- ☐ TA 9.1 - Aluminium and magnesium production
- ☐ TA 9.2 - Iron, Steel and Ferro-alloy Production
- ☐ TA PWRP 1 - Plastic Waste Collection & Recycling

Issue Date 12-12-2025 **Expiry Date** 12-12-2026

Vikash Kumar Singh
Director - Compliance

Appendix 3. Documents reviewed or referenced

S. No.	Document
1)	Monitoring Report 06, dated 27/07/2026 (final)
2)	Emission Reduction Calculation sheet,V3.0 dated 05/06/2026 (ER_Calcs_LS CP2 v3) Emission Reduction Calculation sheet V4.0 dated 27/07/2026 (ER_Calcs_LS CP2 v4)
3)	Project Database as of 27/03/2026
4)	Registered PDD V13.0 dated 01/05/2025 (approved Design Change) and corresponding validation report
5)	Proof of start date of the project activity (end user agreement)
6)	End user agreements
7)	Agreements between the CO2balance and Vita Ireland
8)	Maintenance and operation log book for the current monitoring period i.,e 22/09/2023 to 31/12/2024
9)	Onsite visit dated 07/09/2025 -12/09/2025
10)	Agreement between Carbon Check and the PD dated 28/02/2025
11)	Stroke test reports 2024 dated 11/07/2024 – 13/07/2024 and 08/10/2024 -10/10/2024
12)	Procedures/Manual for stroke test 08/02/2019
13)	Deviation and its Approval of stroke test by the GS decision dated 18/09/2024
14)	Water Quality Test Reports - The Water Resource Department laboratory dated from 12/12/2023-18/12/2023-09/12/2024-14/12/2024
15)	Baseline study records
16)	Usage Survey dated 18/11/2024 -23/11/2024
17)	Annual Survey, Project survey dated 18/11/2024 -23/11/2024
18)	Random sample selection
19)	Training Records & Hygiene campaigns : WASH Trainings(September and October 2024) , Data collection on surveys, Gold standard Monitoring tools (2023) Eritrea LS WASH Report 23-24 v4 Zoba Anseba WASH Community Training Report – July 2024 WASH Community Training Report- Anseba 2025
20)	Employment Records for the current monitoring period i.,e 22/09/2023 to 31/12/2024
21)	Sample Unique identification numbers of the boreholes
22)	Continuous Input and Grievance Mechanism Records for the monitoring period 22/09/2023 to 31/12/2024, including grievance logbooks and stakeholder feedback records.
23)	Household size and socio-economic characteristics study https://academicjournals.org/journal/JDAE/article-full-text-pdf/E68787E71571
24)	Public health and household demographic study relevant to Eritrea/region https://www.tandfonline.com/doi/full/10.2147/RMHP.S478511#d1e263
25)	Tesseney Solar PV Mini-Grid ESIA Report (2024) https://www.afdb.org/sites/default/files/3tesseney_solar_pv_mini-grid_esia_final_version_08102024_final.pdf
26)	Declaration on Double Counting
27)	Declaration stating confirmation of the incorporation of the boreholes into GS 5125, along with an explicit confirmation that no double claiming or double counting occurs with respect to the aforementioned projects.
28)	SDG Impact tool, V4.0
29)	LS_Monitoring_Survey_23_v1 (Annual Monitoring Survey conducted in December 2023)

Background Documents

No.	Author	Title
B01	Gold Standard	GS4GG Principles & Requirements version 1.2

B02	Gold Standard	GS validation and Verification Standard, Version 1.0
B03	Gold Standard	Emission Reductions from Safe Drinking Water Supply v1.0
B04	Gold Standard	Safeguarding-Principles-Requirements
B05	UNFCCC	Site-Visit-and-Remote-Audit-Requirements and Procedures, version 2.0
B06	-	Registries: https://www.goldstandard.org/ https://cdm.unfccc.int/Reference/tools/index.html https://registry.terra.org/app/search/VCS/All%20Projects
B07	UNFCCC	Standard: Sampling and surveys for CDM project activities and programme of activities, version 09.0
B08	Gold Standard	Program of Activities requirements and procedures version 2.1
B09	Gold Standard	Community Services Activity Requirements, version 1.2
B10	UNFCCC	Tool 30: Calculation of the fraction of non-renewable biomass
B11	Gold standard	GS VPA-DD template version 2.3 and corresponding guidelines
B12	Gold standard	Gold Standard Product Requirements
B13	UNFCCC	CDM tool 33
B14/	Gold standard	Stakeholder Engagement requirements
B15	Gold standard	Gender Equality Requirements and Guidelines
B16	Gold standard	GHG Emissions Reduction & Sequestration – Product Requirements V3.2
B17	Gold Standard	GS Assurance Platform

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

Table 1. FARs from previous this verification

There is no FAR raised from this verification.

Table 2. CARs from this verification

CAR ID	01	Section no.	D.2	Date: 05/09/2025
Description of CAR				
1. In section A.3 of the Monitoring Report, the CME has only provided the reference of the applied methodology. However, as per section A.3 of Monitoring Report Template guidelines, v1.2, the CME shall comply the following: Indicate the exact references (titles, versions and - where applicable - UNFCCC reference numbers) of: i. Selected baseline and monitoring methodologies ii. Any methodologies or methodological tools to which the selected methodologies refer, where applicable iii. Any selected standardized baselines, where applicable iv. Any mandatory GS Guidelines (e.g. Usage Survey Guidelines), where applicable				
PD response				Date: 23/09/2025
The applied methodology includes most required references raised within the monitoring report template guidance. PD has also added the TOOL30 reference "Calculation of the fraction of non-renewables biomass". Version 4.0.				
Documentation provided by the PD				
Revised MR				
VVB assessment				Date: 26/09/2025
The CME has updated the MR and has now included relevant references accordingly. The VVB has reviewed the revisions made and found to be acceptable. Hence CAR 01 is closed.				

CAR ID	02	Section no.	D.4	Date: 05/09/2025
Description of CAR				
1. The CME has only provided the start and dates of the crediting period of the project. However, as per section A.4 of the Monitoring Report Template Guidelines, V1.2, the CME shall also provide the length of the crediting period as given in the approved PDD.				
PD response				Date: 23/09/2025
PD has updated Section A.4 of MR specifying length of crediting period.				
Documentation provided by the PD				
Revised PD				
VVB assessment				Date: 26/09/2025
The CME has updated the Monitoring Report and included the length of the crediting period, as required by Section A.4 of the Monitoring Report Template Guidelines, Version 1.2. The VVB has reviewed the revisions made and found them to be acceptable. Therefore, CAR 02 is closed.				

CAR ID	03	Section no.	D.2	Date: 26/09/2025
Description of CAR				

The PO has not provided the information on the implementation and actual operation of the project including relevant dates (e.g. construction, commissioning, start of operation).

As per section B.1 of the monitoring report template, V1.2, PD shall: provide information on the implementation and actual operation of the project including relevant dates (e.g. construction, commissioning, start of operation). If the project activity consists of more than one site, describe the status of implementation and start date of operation for each site. If the project activity is implemented in phases, indicate the progress of the project activity achieved in each phase.

PD response	Date: 28/10/2025
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The PD has provided the requested information. Implementation and start of operation evidenced by the shared CTF scans titled 'LS Combined CTFs'. Relevant dates are included in the MR.

Documentation provided by the PD

'LS Combined CTFs' shared in Dropbox.

VVB assessment	Date: 19/01/2026
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The PD has provided the requested details and are reflected in the MR. The VVB has reviewed the details provided by the PD and found them to be acceptable. Therefore, CAR 03 is closed.

CAR ID	04	Section no.	D.5.1	Date: 26/09/2025
Description of CAR				
1) In the section D.1 of the monitoring report, for the parameter "SDWS 2: Project Technology Description", the CME has not provided the description of the project technology. As per the section 3.12 of the applied methodology, for the parameter "SDWS 2", the CME shall provide the detailed description of the project technology. The CME shall comply the above-mentioned requirements. 2) In the section D.1 of the monitoring report, for the parameter "SDWS 7: technical life of project technology, the CME has not provided the "source of data". The CME shall provide the source of data in accordance with the methodological requirements.				
PD response				Date: 28/10/2025
- The project technology description can be found within the MR in section B.1. The CTFs evidence from when the technology was first used; the RCFs evidence how often maintenance takes place for each technology; and the specific model details can be found in the shared manufacturing documents. It should be reiterated that the project is not limited to any model of handpump. - Parameter updated using the documents provided in folder 28 of Dropbox.				
Documentation provided by the PD				
'Hardware Elements of Handpump Technology' 'RSWN India Mark II Handpump Specification'				
VVB assessment				Date: 19/01/2026
- The CME has updated the Monitoring Report. The VVB has reviewed the revised details and the supporting evidence provided and found them to be acceptable. - The CME has updated the details in the source of data for the parameter SDWS7 and further provided supportive evidence. The VVB has reviewed the details provided by the CME and found it to be acceptable. The details and supportive evidence provided by the PD are found to be acceptable. Therefore, CAR 04 is closed.				

CAR ID	05	Section no.	D.5.1	Date: 26/09/2025
Description of CAR				
As per Section E.1 of the Monitoring Report Template Guide, Version 1.2, the CME shall comply with the following requirement: Under a heading for each SDG, provide sample calculations for all formulae used to calculate/estimate baseline values (SDG 13 - emissions or net baseline removals), applying actual values. Clearly reference the spreadsheets used (including sheet names as necessary) and supply them as supporting evidence to the monitoring report.				

PD response	Date: 07/11/2025
PD has updated MR with added Baseline calculations for SDG 13 and 15. SDG 7 does not require an example calculation as, in reference to the Baseline Survey, the sum of households with access to safe water from a clean treatment technology is a value of 0. SDG 5 refers to one value sourced from the Baseline Survey previously shared. SDG 1 does not require an example calculation as the time spent collecting water per household per trip prior to the project is 0.92 hours This is shown in the Baseline Survey that averages the value of all responses to the question.	
Documentation provided by the PD	
MR and ER sheets to be referred to. Also refer to Baseline Study Records shared in folder 17 of Dropbox.	
VVB assessment	Date: 19/01/2026
The PD has updated the MR and relevant calculation information has been updated in the revised MR. The VVB has reviewed the details provided by the VVB and found them to be acceptable. Therefore, CAR 05 is closed,	

Table 2. CLs from this verification

CL ID	01	Section no.	SDG Impact Tool	Date: 05/09/2025
Description of CL				
1.As per paragraph 2.1.2 of SDG impact tool version 2.0 rule update, and 4.1.16 (option 2) CME shall present all SDG impact as per the SDG impact tool. 2.As per paragraph 2.1.1 SDG impact tool version 1.0 rule update, the use of digital SDG Impact Tool shall be mandatory starting from: a.01/09/2024, by all projects, PoAs, and their VPAs that achieve listing status after 01/09/2024. However, this excludes new VPAs listed for inclusion in a PoA that achieved design certification status before 01/09/2024. b.01/02/2025, by all listed projects, PoAs, and VPAs submitted for design review or certified projects, PoAs and VPAs submitted for design certification renewal review, regardless of the listing date. This excludes new VPAs submitted for inclusion or design certification renewal in a PoA that achieved design certification or design certification renewal status before 01/09/2024. c.01/09/2025, by all listed and certified projects, PoAs, and their VPAs submitted for design review, performance review, or renewal of crediting period. CME shall comply with the above-mentioned requirements.				
PD response				Date: 22/09/2025
- The SDG Impact Tool was shared in the original submission. Please see excel 'LS Eritrea SDG tool CP2 v1'. - The digital SDG impact tool is not mandatory for this review. justified within the attached PDF email titled below. The email states the following from Gold Standard: '<i>Projects listed before 01/09/2024 or submitted for Design Certification before 01/02/2025 are not required to align with the digital SDG Impact Tool at the time of Performance Review, Renewal, or other certification events after 01/09/2025.</i>'				
Documentation provided by the PD				
Re SDG Digital Tool Clarification Request CONFIDENTIAL				
VVB assessment				Date: 26/09/2025

1. The CME shall clarify the following:
 - a) The value provided in the SDG Impact tool for SDG 13 is not consistent with the values reported in the MR.
 - b) The value provided in the SDG impact tool for SDG 07 is not consistent with the values reported in the MR.
 - c) The value provided in the SDG impact tool for SDG 15 is not consistent with the values reported in the MR.
2. The PDF provided w.r.t to the clarification on the use of the Digital SDG Impact TOOL is not accessible. The CME shall provide an accessible version of the document.

The VPA requires more details w.r.t the CL raised. Therefore 01 is open.

PD response

1.
 - a) PD has updated the value
 - b) PD has check SDG tool and MR. No inconsistencies found.
 - c) Value in updated SDG Impact Tool (LS Eritrea SDG tool CP2 v2).
2. PD has shared another copy with a screenshot of the relevant page.

Documentation provided by the PD

LS Eritrea SDG tool CP2 v2
SDG Digital Tool Clarification Request CONFIDENTIAL

VVB assessment

1.
 - a) The PD has revised the SDG impact tool, and the value provided in the SDG impact tool for SDG 13 is now made consistent with the MR.
 - b) The PD has revised the SDG impact tool, and the value provided in the SDG impact tool for SDG 07 is now made consistent with the MR.
 - c) The PD has revised the SDG impact tool, and the value provided in the SDG impact tool for SDG 15 is now made consistent with the MR.

The VVB has reviewed the revision made by the PD and found to be acceptable.
2. The PD has provided a copy of the clarification issued by the GS. As per the GGS clarification dated 07/07/2025, projects listed before 01/09/2024 or submitted for Design Certification before 01/02/2025 are not required to align with the digital SDG Impact Tool at the time of Performance Review, Renewal, or other certification events conducted after 01/09/2025. The VVB has reviewed the copy of the clarification provided by the PD and found it to be appropriate. Further, the PO has used the Excel version of the SDG Impact Tool in accordance with the clarification. VVB has reviewed the Excel version of the SDG Impact Tool and found it to be acceptable.

The details provided by the PO w.r.t to the clarification raised are found to acceptable. Therefore CL 01 is closed.

CL ID	02	Section no.	D.5.1	Date: 05/09/2025
Description of CL				
<u>SDWS 1</u>				
In the section D.1 of the Monitoring Report, in the column choice of data or measurement methods and procedures of the parameter "SDWS 1", it is not clear why the value "122" is provided. The CME shall clarify the same.				
PD response				Date: 18/09/2025
'Value applied' and 'Choice of data' rows within MR have been swapped so the value now states 122 and the data justification is described.				
Documentation provided by the PD				
See updated MR (GS5125 Eritrea LS MR MP5 v2).				
VVB assessment				Date: 26/09/2025

The CME has updated the Monitoring Report and corrected the respective columns for the “Value Applied” and “Choice of Data or Measurement Methods and Procedures.” The VVB has reviewed the revisions made by the CME and found them to be acceptable.

Therefore, CL 02 is closed.

CL ID	03	Section no.	D.2	Date: 26/09/2025
Description of CL				
The PD shall provide supportive evidence for the following:				
1. Technical Specification of all the handpumps used 2. Grievance Records of all the regions 3. Technical Lifetime of the project technology 4. Maintenance and logbooks of handpumps of all the regions for the current monitoring period.				
PD response				Date: 28/10/2025
1. PD has shared technical specification within OS submission of documents found in folder 28 within the Dropbox. Dropbox link can be found below. 2. Grievance records have been shared within Dropbox. These documents are also known as logbooks. The PD has shared logbooks in the Dropbox Grievance Records folder titled ‘Anseba Logbooks’ and ‘Debut Logbook 2024’. 3. Suitable maintenance can extend the lifetime of the pump to 15 to 20 years. See page 8 within document titled ‘Hardware Elements of Handpump Technology’. 4. Logbooks and RCFs can be found in Dropbox folder. https://www.dropbox.com/scl/fo/fmqy5ijmvna7y5wmo68ag/ABNYJ82bQGm9gDnGofMVupY?rlkey=6vrypn080bpy6c4r6ga9hf5y1&st=z03v505d&dl=0				
‘Hardware Elements of Handpump Technology’				
VVB assessment				Date:
1. The PD has shared the technical specifications of all the Hand Pumps used. 2. The PD has shared the Grievance records of all the regions included in the project activity 3. The PD has shared supportive evidence for the Technical Lifetime of the project technology 4. The PD has shared the 4. Maintenance and logbooks of handpumps of all the regions for the current monitoring period. The VVB reviewed the details provided by the PD in the MR and supporting documents and found them to be consistent and acceptable. Therefore, CL 03 is closed.				

CL ID	04	Section no.	D.5.2	Date: 26/09/2025
Description of CL				
The CME shall provide clarification for the following for the parameter related to the parameter SDWS 23:				
1) The source of data mentioned in the registered PDD is not consistent with the source of data provided in the Monitoring Report. 2) The value of the parameter is not provided in the MR. However, it is included in the Emission Reduction sheet. The CME shall provide clarification on the inconsistency and submit supporting evidence to justify the value used in the ER calculation. 3) The MR does not include the measurement method and procedures associated with the parameter. The CME shall provide measurement method and procedures applied for this parameter in accordance with the registered monitoring plan.				
PD response				Date: 28/10/2025

1. The PDD says the source of data is 'Sensor measures water volume directly, once commercially available.' The additional comments section also says 'The project will not be applying Qm,y as the required technology is not yet available. As soon as the required technology is available and reliable it will be implemented. Until this time Qpop,y will be applied.' Please also see section B.2 of the MR which gives details of the deviation request related to this parameter 'REC_DEV_462'. 2. As per deviation request, PD undertook a 5-minute stroke test. The details of this can be found in section B.2 and section C of the MR. The results can also be found in section B.2. The accompanying excel result sheets were shared in the original submission. 3. PD has updated the parameter box. Please see relevant sections of the MR and the deviation request for further details. PD also shared the document 'How to conduct the test 5MST', along with the 5MST excels in original submission.	
Documentation provided by the PD	
REC_DEV_462	
VVB assessment	Date: 19/01/2026
1. As per the registered PDD, the source of data is defined as "sensor measures water volume directly, once commercially available." However, in the additional comments for the parameter, it is stated that the project will not apply Qm,y as the required technology is not yet available. It is further clarified that the technology will be implemented once it becomes available and reliable, and until such time, Qpop,y will be applied. The VVB has reviewed the information provided in the registered PDD and the Monitoring Report (MR) for the current monitoring period and found the justification to be consistent and appropriate. In addition, the VVB has reviewed the approved deviation request (REC_DEV_462) and found it to be acceptable. 2. The CME has received a deviation request (REC_DEV_462) the measurement method and procedure with respect to the parameter. The VVB has reviewed the approved deviation, as well as the information provided by the CME in Sections B.2 and C of the Monitoring Report (MR), and found the same to be acceptable. 3. The CME has updated the parameter Box and The VVB has reviewed the approved deviation, as well as the information provided by the CME in Sections B.2 and C of the Monitoring Report (MR), and found the same to be acceptable. The details provided by the VVB are found to be acceptable. Therefore 04 is closed.	

CL ID	05	Section no.	D.7.1	Date: 26/09/2025
Description of CL				
The CME shall provide clarification w.r.t to the section E.1 of the Monitoring Report:				
1) The calculations provided for SDG 1 are not consistent with the registered PDD, and the values do not align with the parameter listed in Section D.2 of the Monitoring Report. 2) SDG 5: The CME has only provided the time spent collecting water per household per day prior to the project (in hours). However, the CME has not calculated the total percentage reduction in time spent collecting water because of the project activity for the year y. The Qpop,y will be applied until it is available. In addition to this,				
PD response				Date: 28/10/2025
1. Parameter in section D.2 references Project Basic Service calculated from Project ERs. PDD references the Ex-ante estimations for Project Basic service. Section E.1 in MR is correct. 2. PD has not included this information as section E.1 is solely for calculation of baseline values or estimations of baselines. Calculation of project percentage reduction in time can be found in section D.2 of MR.				
Documentation provided by the PD				
VVB assessment				Date: 19/01/2026

1. The justification provided by the PD is found to be acceptable.
2. The justification provided by the PD is found to be acceptable.

Therefore, CL 05 is closed.

CL ID	06	Section no.	D.5.2	Date: 26/09/2025
Description of CL				
The following parameters are not provided in the MR; however, they have been considered in the calculations within the ER sheet. The CME shall provide clarification regarding the same.				
1) SDWS 29: $U_{p,y}$ – Usage rate of the project technology by premises type p during year y 2) SDWS 21: Fractional non-renewability status of woody biomass fuel during year y, in case the baseline fuel is biomass or charcoal				
PD Response				Date: 06/11/2025
1. PD has added $U_{p,y}$ as SDWS 19 in parameter box. This is because SDWS 29 is only for HWT and IWT technologies as per methodology and does not apply to this project. 2. Parameter box previously titled as N/A is now titled SDWS 21.				
Documentation provided by the PD				
MR updated: 'GS5125 Eritrea LS MR MP5 v3'				
VVB assessment				Date: 30/10/2025
1. The PD has added $U_{p,y}$ as SWDS 19 in the monitoring parameters. The justification provided by the PP is found to be acceptable. 2. The PP has revised the MR and SDWS 21 is now included. The VVB has reviewed the details provided by the PD and is found to be appropriate.				
Therefore CL 06 is closed.				

Table 4. FAR from previous validation/verification

FAR	01	Section no.	Previous Report	Validation	Date: 26/09/2025
Description of FAR					
Following FAR has be raised during the design change certification validation report V6, dated 25/03/2026.					
The VVB doing the verification shall assess and confirm that CME shall demonstrate and provide sufficient evidence of the operational status and continued functionality of all boreholes transitioned from GS5951, GS5952, GS5953, and GS5954 to GS5125. This shall include updated monitoring records, location details, and supporting documentation to confirm that the boreholes are active and contributing to the project activity in line with the applied methodology and monitoring plan. Further, VVB shall explicitly document the outcome of the assessment in the verification report.					
PD Response					Date: 06/11/2025
Documentation provided by the PD					
VVB assessment					
					Date: 07/04/2026

The VVB conducted a document review and on-site verification to assess the operational status and continued functionality of all boreholes transitioned from GS5951, GS5952, GS5953, and GS5954 to GS5125.

The assessment included a review of updated monitoring records, borehole location details, and supporting documents including maintenance records and photographic evidence, to confirm that the boreholes are active and contributing to the project activity in accordance with the applied methodology and monitoring plan.

Based on the verification activities, the VVB confirms that sufficient evidence has been provided by the CME to demonstrate the operational status and continued functionality of the boreholes. The outcome of this assessment is provided in the Final Verification Report.

FAR 02	02	Section no.	PRR form	Date: 26/09/2025
Description of FAR				
The following CAR has been raised during the PRR round approval for the project: "In conjunction with the design change approval, the merged GS VPAs of GS5951, GS5952, GS5953, GS5954 and GS5955 will be deactivated immediately without any further issuance. VVB conducting the verification shall ensure that all the GS VPAs mentioned and now amalgamated under GS5125 has been deactivated and no further issuance has been requested during post this review closure.				
PD Response				Date: 06/11/2025
Documentation provided by the PD				
Declaration by the PD				
VVB assessment				Date: 07/04/2026
The VVB has reviewed the referenced project details, which have now been incorporated into Project GS 5125, and confirms that the above-mentioned projects are no longer subject to revalidation or further issuance. This status is formally documented and confirmed in the approved Project Design Change Report (Version 13.0).				
Furthermore, the PD has provided a formal declaration confirming the incorporation of the boreholes into GS 5125, along with an explicit confirmation that no double claiming or double counting occurs with respect to the aforementioned projects. Therefore, the FAR is deemed to be closed.				

FAR	03	Section no.	PRR form	Date: 26/09/2025
Description of FAR				
The following CAR has been raised during the PRR round approval for the project: "VVB shall ensure that the credits are issued only as per the current active CP duration for the projects amalgamated in GS5125 and also reconfirm that there is no double claiming of same vintages i.e., the included boreholes can only claim after the period which has already been claimed under GS1247 and shall claim only until the earliest CP end date out of all the VPAs.				
PD Response				Date: 06/11/2025
Documentation provided by the PD				
Declaration by the PD				
VVB assessment				Date: 07/04/2026
The VVB has reviewed the referenced project details, which have now been incorporated into Project GS 5125, and confirms that the above-mentioned projects are no longer subject to revalidation or further issuance. This status is formally documented and confirmed in the approved Project Design Change Report (Version 13.0).				
Furthermore, the PD has provided a formal declaration confirming the incorporation of the boreholes into GS 5125, along with an explicit confirmation that no double claiming or double counting occurs with respect to the aforementioned projects. Therefore, the FAR is deemed to be closed.				

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

Relevant SDG Indicator	SDGs 1, 5, 7, 13 and 15
Parameter	Number of household/institution per CWT/CWS
Data unit	Coordinates of CWT/CWS – Acceptable formats for GPS coordinates include DMS (degrees, minutes and seconds), DMM (degrees and decimal minutes), and DD (decimal degrees) Number of end-user premises, quantity
Default values used	122
Purpose of data	HH Lists
Source of verification of the source	End users premises (e.g. household, institutions) within 1km distance of project water source.

Relevant SDG Indicator	SDGs 1, 5, 7, 13 and 15
Parameter	Project Technology Description
Data unit	N/A
Default values used	Handpump manufacturer specifications: https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/afridev https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/india-mark-ii https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/india-mark-iii The project is not limited to any model of hand-pump or water scheme
Purpose of data	Outline project details
Source of verification of the source	Handpump manufacturer specifications: https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/afridev https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/india-mark-ii https://www.rural-water-supply.net/en/implementation/public-domain-handpumps/india-mark-iii The project is not limited to any model of hand-pump or water scheme And onsite visit observations

Relevant SDG Indicator	SDGs 1,7, and 15
Parameter	Project technology performance level
Data unit	N/A
Default values used	Laboratories used for water quality testing must be approved by local health authorities and/or have quality accreditation; and

	The laboratory used shall have evidence to demonstrate that it has an adequate quality management plan in place which addresses both quality assurance and quality control test procedures. Table 4.6 Checklist for effective analytical quality assurance of WHO Guidelines, 1997 may be used as a guideline for laboratory compliance with quality assurance practices.
Purpose of data	Determine Water Quality
Source of verification of the source	Water Quality Test Report

Relevant SDG Indicator	SDGs 1,7, and 15
Parameter	Regulatory framework for safe water supply
Data unit	N/A
Default values used	100% Improved
Purpose of data	Determine water sources in project boundary
Source of verification of the source	Baseline Study, Registered PDD

Relevant SDG Indicator	SDGs 1,7, and 15
Parameter	Stove technologies used in the project boundary
Data unit	N/A
Default values used	80 % are Traditional Stoves, 20% are Improved Wood fuel Stoves
Purpose of data	Determine stove technology in project boundary
Source of verification of the source	Baseline Study, Registered PDD

Relevant SDG Indicator	SDG 13
Parameter	Expected technical life of project technology
Data unit	Treatment volume or operational hours or time period
Default values used	Water Sources are designed to last for up to 20-50 years with adequate maintenance.
Purpose of data	Determine technical life of project technology
Source of verification of the source	1. Manufacturer Guidelines 2. Safe water International Organisation Agreement 3. Registered PDD

Relevant SDG Indicator	SDGs 7,15 and 13
Parameter	Xf
Data unit	Percentages of fuel f use in target population
Default values used	Wood: 100%
Purpose of data	Determine the proportion of each different cooking fuel f used in the project boundary by end-users
Source of verification of the source	Re-validation Baseline survey :Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1" Q35

Relevant SDG Indicator	SDGs 13
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Parameter	EF _{b,f,CO2}
Data unit	tCO ₂ /TJ
Default values used	112 tCO ₂ /TJ
Purpose of data	Calculation of baseline emissions
Source of verification of the source	IPCC defaults; Volume 2: 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Chapter 2, Table 2.5; https://www.ipccnggip.iges.or.jp/public/2006gl/pdf/2_Volume2/V2_2_Ch2_Stationary_Combustion.pdf

Relevant SDG Indicator	SDGs 13
Parameter	EF _{b,f,nonCO2}
Data unit	tCO _{2e} /TJ
Default values used	9.46 tCO _{2e} /TJ
Purpose of data	Calculation of baseline emissions
Source of verification of the source	IPCC defaults: Non-CO ₂ Emissions from Stationary Combustion. Annex 1, Table 2 and Table 3. https://www.ipccnggip.iges.or.jp/public/gp/bgp/2_2_Non-CO2_Stationary_Combustion.pdf Global Warming Potential: http://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html#table2-14

Relevant SDG Indicator	SDGs 13 and 15
Parameter	η_{wb}
Data unit	Percentage
Default values used	10% for traditional stoves and 23% for improved cookstoves
Purpose of data	Determine efficiency of the baseline water boiling.
Source of verification of the source	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"

Relevant SDG Indicator	SDGs 7,13 and 15
Parameter	C _b
Data unit	Percentage
Default values used	0
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	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"

Relevant SDG Indicator	SDGs 13 and 15
Parameter	NCV _f
Data unit	TJ/fuel units, i.e. mass or volume units
Default values used	0
Purpose of data	ERs calculations
Source of verification of the source	IPCC defaults

Relevant SDG Indicator	SDG 5
Parameter	SE _{w,b,y}
Data unit	kJ/L
Default values used	3208.90

Purpose of data	Calculation of baseline emissions
Source of verification of the source	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"

Relevant SDG Indicator	SDGs 13 and 15
Parameter	Tb,y
Data unit	Minutes
Default values used	63.35 minutes (1.06 hours)
Purpose of data	Calculate total reduction of time spent collecting water per household per trip
Source of verification of the source	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"

Relevant SDG Indicator	SDG 15
Parameter	Pb,boil
Data unit	Percentage
Default values used	100%
Purpose of data	Determine number of persons boiling water in the baseline
Source of verification of the source	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"

Relevant SDG Indicator	SDG 13 and 15
Parameter	fNRB
Data unit	Percentage
Default values used	0.79
Purpose of data	Calculation of baseline emissions
Source of verification of the source	CDM TOOL30 v.4, Calculation of the fraction of non-renewable biomass

Relevant SDG Indicator	SDG 1
Parameter	Baseline Basic
Data unit	Percentage
Default values used	0
Purpose of data	Calculation of Paccos
Source of verification of the source	Re-validation Baseline survey: Re-val Baseline Survey_Anseba 2023_V1 and Re-val Baseline Debub_2023_V1"