

GOLD STANDARD VERIFICATION REPORT

For: CO2balance UK Ltd

REPORT NO.:

GS7362-GS7363-GS7364-GS7365-GS7366-MP4
GS5196-GS5197-GS6349-GS6350-GS6351-MP5
GS5189-GS5190-GS5191-GS5192-GS5193-GS5194-GS5195-MP6
GS5106-GS5186-GS5187-GS5188-MP7



SUSTAINCERT
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Abbreviations used in this Report

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DR	Document Review
EF	Emission Factor
ERPA	Emission Reduction Purchase Agreement
ER	Emission Reductions
EIA	Environmental Impact Assessment
FAR	Forward Action Request
GWP	Global Warming Potential
GS	Gold Standard
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
kWh	Kilo Watt Hour
MW	Mega Watt
NC	Non-Conformity
NCV	Net Calorific Value
NGO	Non-governmental Organisation
ODA	Official Development Assistance
PDD	Project Design Document
PD	Project Developer
tCO ₂ e	Tonnes of CO ₂ equivalents
UNFCCC	United Nations Framework Convention on Climate Change
BH	Borehole
GS4GG	Gold Standard for the Global Goals
ICS	Improved Cookstove
MWh	MegaWattHour
CH ₄	Methane
MR	Monitoring Report
N ₂ O	Nitrous Oxide
POA	Programme of Activity
SGP	Safeguarding Principles
SDG	Sustainable Development Goal
SC	SustainCERT
TPDDTEC	Technologies and Practices to Displace Decentralised Thermal Energy Consumption

¹: as evident in publication from GoldStandard https://www.goldstandard.org/sites/default/files/project-profile-gender_responsive_project.pdf

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UN
VVB
VER
VPA

United Nations
Validation and Verification Body
Verified Emission Reduction
Voluntary Project Activity

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1 OBJECTIVE AND CRITERIA

1.1 Objective

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

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

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

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

1.2 SCOPE

Related activity	Verification
Project Title (s)	<ol style="list-style-type: none"> 1) GS1247 VPA 71: Lango Safe Water Project (GS5106) 2) GS1247 VPA 72 Lango Safe Water Project (GS5186) 3) GS1247 VPA 73 Lango Safe Water Project (GS5187) 4) GS1247 VPA 74: Lango Safe Water Project (GS5188) 5) GS1247 VPA 75 Lango Safe Water Project (GS5189) 6) GS1247 VPA 76 Lango Safe Water Project (GS5190) 7) GS1247 VPA 77 Lango Safe Water Project (GS5191) 8) GS1247 VPA 78 Lango Safe Water Project (GS5192) 9) GS1247 VPA 79 Lango Safe Water Project (GS5193) 10) GS1247 VPA 80 Lango Safe Water Project (GS5194) 11) GS1247 VPA 81 Lango Safe Water Project (GS5195) 12) GS1247 VPA 82 Lango Safe Water Project (GS5196) 13) GS1247 VPA 83 Lango Safe Water Project (GS5197) 14) GS1247 VPA 139: Lango Safe Water Project (GS6349) 15) GS1247 VPA 140 Lango Safe Water Project (GS6350) 16) GS1247 VPA 141 Lango Safe Water Project (GS6351) 17) GS1247 VPA 183 Lango Safe Water Project (GS7362) 18) GS1247 VPA 184 Lango Safe Water Project (GS7363) 19) GS1247 VPA 185 Lango Safe Water Project (GS7364) 20) GS1247 VPA 186 Lango Safe Water Project (GS7365) 21) GS1247 VPA 187 Lango Safe Water Project (GS7366)
Project ID (s) (i.e.: GS-ID)	<ol style="list-style-type: none"> 1. GS5106 2. GS5186 3. GS5187 4. GS5188 5. GS5189

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	6. GS5190
	7. GS5191
	8. GS5192
	9. GS5193
	10. GS5194
	11. GS5195
	12. GS5196
	13. GS5197
	14. GS6349
	15. GS6350
	16. GS6351
	17. GS7362
	18. GS7363c
	19. GS7364
	20. GS7365
	21. GS7366
Project Type	Safe Water Supply – Borehole
PoA Title (if applicable)	Improved Kitchen Regimes Multi-Country PoA
POA ID (if applicable)	GS1247
Responsible Party	CO2balance UK Ltd
Verification programme	The Gold Standard

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

The responsible party is responsible for the preparation and fair presentation of the environmental information statement in accordance with the criteria.

Consistent with SC accreditation scope, only the following GHGs are considered within the scope of the assessment: CO₂ CH₄ N₂O.

2 TEAM COMPOSITION

Verification Team

Name	Qualification	Coverage of sectoral/technical area	Host country experience	Conducted Site visit / Remote Audit
Indrapal Parmar	TL	<input checked="" type="checkbox"/> (All)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Joan Adera	Auditor			<input checked="" type="checkbox"/>
Sovannmonica Ek	Trainee Auditor		-	<input checked="" type="checkbox"/>

Independent Review team and approver

Name	Role	Coverage of technical area
Nayan Jyoti deka	Independent R	<input checked="" type="checkbox"/> (All)

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Name	Role	Coverage of technical area
Peter Konijn	Approver	N/A

3 PROJECT INFORMATION

3.1 Monitoring Period

Start of Monitoring Period	MP4	
	GS7362: 01/04/2022	
	GS7363: 01/04/2022	
	GS7364: 01/04/2022	
	GS7365: 01/04/2022	
	GS7366: 01/04/2022	
	MP5	
	GS5196: 01/04/2022	
	GS5197: 01/04/2022	
	GS6349: 01/04/2022	
	GS6350: 01/04/2022	
	GS6351: 01/04/2022	
	MP6	
	GS5189-95: 01/04/2022	
	MP7	
	GS5106 & GS5186-8: 01/04/2022	
	End of Monitoring period	MP4
	GS7362: 31/03/2023	
	GS7363: 31/03/2023	
	GS7364: 31/03/2023	
	GS7365: 31/03/2023	
GS7366: 31/03/2023		

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<p>MP5</p> <p>GS5196: 31/03/2023</p> <p>GS5197: 31/03/2023</p> <p>GS6349: 31/03/2023</p> <p>GS6350: 31/03/2023</p> <p>GS6351: 31/03/2023</p> <p>MP6</p> <p>GS5189-95: 31/03/2023</p> <p>MP7</p> <p>GS5106 & GS5186-8: 31/03/2023</p>	<p>MP5</p> <p>GS5196: 31/03/2023</p> <p>GS5197: 31/03/2023</p> <p>GS6349: 31/03/2023</p> <p>GS6350: 31/03/2023</p> <p>GS6351: 31/03/2023</p> <p>MP6</p> <p>GS5189-95: 31/03/2023</p> <p>MP7</p> <p>GS5106 & GS5186-8: 31/03/2023</p>
<p>Total Emission Reductions SDG 13 - Climate Action</p>	<ol style="list-style-type: none"> 1. GS5106: 3,529 tCO2e 2. GS5186: 3,713 tCO2e 3. GS5187: 3,036 tCO2e 4. GS5188: 3,300 tCO2e 5. GS5189: 2,312 tCO2e 6. GS5190: 1,965 tCO2e 7. GS5191: 3,188 tCO2e 8. GS5192: 4,215 tCO2e 9. GS5193: 3,984 tCO2e 10. GS5194: 1,392 tCO2e 11. GS5195: 896 tCO2e 12. GS5196: 2,680 tCO2e 13. GS5197: 2,466 tCO2e 14. GS6349: 2,989 tCO2e 15. GS6350: 3,031 tCO2e 16. GS6351: 3,079 tCO2e 17. GS7362: 3,188 tCO2e 18. GS7363: 3,156 tCO2e 19. GS7364: 2,660 tCO2e 20. GS7365: 3,068 tCO2e 21. GS7366: 3,188 tCO2e
<p>Total SDG 3</p>	<ol style="list-style-type: none"> 1. GS5106: 2,496 persons consuming safe water

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Good Health and Well-being

2. GS5186: 2,515 persons consuming safe water
3. GS5187: 2,248 persons consuming safe water
4. GS5188: 2,235 persons consuming safe water
5. GS5189: 1,619 persons consuming safe water
6. GS5190: 1,349 persons consuming safe water
7. GS5191: 2,159 persons consuming safe water
8. GS5192: 2,855 persons consuming safe water
9. GS5193: 2,698 persons consuming safe water
10. GS5194: 1,462 persons consuming safe water
11. GS5195: 1,079 persons consuming safe water
12. GS5196: 1,966 persons consuming safe water
13. GS5197: 1,670 persons consuming safe water
14. GS6349: 2,025 persons consuming safe water
15. GS6350: 2,053 persons consuming safe water
16. GS6351: 2,095 persons consuming safe water
17. GS7362: 2,159 persons consuming safe water
18. GS7363: 2,154 persons consuming safe water
19. GS7364: 1,801 persons consuming safe water
20. GS7365: 2,078 persons consuming safe water
21. GS7366: 2,159 persons consuming safe water

Total SDG 5
Gender Equality

19.6% reduction in time spent collecting water across all VPA's.

The project is Gender Equality certified as Gender Responsive¹ under Gold Standard, which allows project developers and funders to quantify and certify the impacts of climate action on SDG 5 (Gender Equality). As part of this, CO2balance carry out frequent monitoring activities and training events relating to gender.

PP provided the evidence of survey data carried out in conjunction with annual monitoring 27/02/2023 – 07/03/2023 with added gender questions to provide comparable indicators used to measure time use and income gender gaps.

Verified project impacts as reported in the Gender Equality Annex 2022_MP7 is as followed:

-Category 1

SDG target 5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate.

Monitoring parameters:	Results of parameters:
------------------------	------------------------

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Average amount of time saved per day on water collection from baseline to project scenario	18.9 minutes
% of people reporting time saved being spent on unpaid domestic tasks	100%
% of people reporting time saved being spent on income-generation	99%
% of people reporting time saved being spent on leisure, religious activities and other empowerment focused activities (including education)	78% (average across multiple leisure/empowerment activities)

SDG target 5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life

Monitoring parameters:	Results of parameters:
Ratio of male and female members on project WRCs	47% female; 53% male representation on average across WRCs interviewed in 2022
Reported sense of input into decision-making for male and female WRC members	<p>After the sensitisation trainings, WRCs which have been followed up note a reduction in GBV in the community and the council offices, and an overall increase in peaceful decision-making between men and women. All members of WRCs actively participate in decisions on managing the borehole. Both men and women feel like their input into decision making is heard and that their added contributions have improved the WRC and its ability to manage the borehole on behalf of the community.</p> <p>Survey reports frequently included comments such as:</p> <ul style="list-style-type: none"> - Women feel their contributions are not taken for granted and decisions are honoured - Women are giving ideas freely and men are welcoming them without rejection

-Category 2

SDG target 5.2 Eliminate all forms of violence against all women and girls in public and private spheres, including trafficking and sexual and other types of exploitation

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Total SDG 6
Clean water and sanitation for all

Monitoring parameters:	Results of parameters:
% of women reporting incidents on gender-based violence in water collection	1% (those that didn't answer 'none' to experiencing issues)
% of women reporting incidents of domestic violence related to water collection	1%
% of respondents who feel that the project has had a positive or negative effect on their fear of exposure to GBV	90%

1. GS5106: 2,516 additional persons with access to safe water in the project activity
2. GS5186: 2,535 additional persons with access to safe water in the project activity
3. GS5187: 2,267 additional persons with access to safe water in the project activity
4. GS5188: 2,253 additional persons with access to safe water in the project activity
5. GS5189: 1,632 additional persons with access to safe water in the project activity
6. GS5190: 1,360 additional persons with access to safe water in the project activity
7. GS5191: 2,176 additional persons with access to safe water in the project activity
8. GS5192: 2,878 additional persons with access to safe water in the project activity
9. GS5193: 2,720 additional persons with access to safe water in the project activity
10. GS5194: 1,474 additional persons with access to safe water in the project activity
11. GS5195: 1,088 additional persons with access to safe water in the project activity
12. GS5196: 1,982 additional persons with access to safe water in the project activity
13. GS5197: 1,684 additional persons with access to safe water in the project activity

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- 14. GS6349: 2,041 additional persons with access to safe water in the project activity
- 15. GS6350: 2,070 additional persons with access to safe water in the project activity
- 16. GS6351: 2,112 additional persons with access to safe water in the project activity
- 17. GS7362: 2,176 additional persons with access to safe water in the project activity
- 18. GS7363: 2,171 additional persons with access to safe water in the project activity
- 19. GS7364: 1,816 additional persons with access to safe water in the project activity
- 20. GS7365: 2,095 additional persons with access to safe water in the project activity
- 21. GS7366: 2,176 additional persons with access to safe water in the project activity

Date of MR Report	GSID	Date of MR	
	GS5106, GS5186-94, GS5196-7, GS6349-51, GS73626		08/02/2024
	GS5195	08/02/2024	
Version of MR Report	GSID	Version of MR	
	GS5106, GS5186-94, GS5196-7, GS6349-51, GS73626		4
	GS5195		3

Vintage-wise break-up of emission reductions for monitoring period:

Project GS ID
1) GS5106
2) GS5186
3) GS5187
4) GS5188
5) GS5189

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	6) GS5190
	7) GS5191
	8) GS5192
	9) GS5193
	10) GS5194
	11) GS5195
	12) GS5196
	13) GS5197
	14) GS6349
	15) GS6350
	16) GS6351
	17) GS7362
	18) GS7363
	19) GS7364
	20) GS7365
	21) GS7366
Product Totals	1. GS5106, GS5186-94, GS5196-97, GS6349-51, GS7362-66: 60,139 tCO ₂ e 2. GS5195: 896 tCO ₂ e
Vintage Break-up	-
01/04/2022 – 31/12/2022	1) GS5106: 2,659 tCO ₂ e 2) GS5186: 2,798 tCO ₂ e 3) GS5187: 2,298 tCO ₂ e 4) GS5188: 2,487 tCO ₂ e 5) GS5189: 1,801 tCO ₂ e 6) GS5190: 1,501 tCO ₂ e 7) GS5191: 2,402 tCO ₂ e 8) GS5192: 3,176 tCO ₂ e 9) GS5193: 3,002 tCO ₂ e 10) GS5194: 1,044 tCO ₂ e 11) GS5195: 636 tCO ₂ e 12) GS5196: 2,033 tCO ₂ e 13) GS5197: 1,858 tCO ₂ e 14) GS6349: 2,252 tCO ₂ e 15) GS6350: 2,284 tCO ₂ e

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	16) GS6351: 2,330 tCO2e 17) GS7362: 2,402 tCO2e 18) GS7363: 2,397 tCO2e 19) GS7364: 2,004 tCO2e 20) GS7365: 2,312 tCO2e 21) GS7366: 2,402 tCO2e
01/01/2023 – 31/03/2023	1) GS5106: 870 tCO2e 2) GS5186: 915 tCO2e 3) GS5187: 738 tCO2e 4) GS5188: 813 tCO2e 5) GS5189: 511 tCO2e 6) GS5190: 464 tCO2e 7) GS5191: 786 tCO2e 8) GS5192: 1,039 tCO2e 9) GS5193: 982 tCO2e 10) GS5194: 348 tCO2e 11) GS5195: 260 tCO2e 12) GS5196: 647 tCO2e 13) GS5197: 608 tCO2e 14) GS6349: 737 tCO2e 15) GS6350: 747 tCO2e 16) GS6351: 749 tCO2e 17) GS7362: 786 tCO2e 18) GS7363: 759 tCO2e 19) GS7364: 656 tCO2e 20) GS7365: 756 tCO2e 21) GS7366: 786 tCO2e

3.2 Annual projections

Annual Average Emission Reductions SDG 13 - Climate Action	1) GS5106: 9,977 tCO2e 2) GS5186: 9,977 tCO2e 3) GS5187: 9,977 tCO2e
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	4) GS5188: 9,977 tCO2e 5) GS5189: 9,977 tCO2e 6) GS5190: 9,977 tCO2e 7) GS5191: 9,977 tCO2e 8) GS5192: 9,977 tCO2e 9) GS5193: 9,977 tCO2e 10) GS5194: 9,977 tCO2e 11) GS5195: 10,946 tCO2e 12) GS5196: 9,973 tCO2e 13) GS5197: 9,973 tCO2e 14) GS6349: 9,973 tCO2e 15) GS6350: 9,973 tCO2e 16) GS6351: 9,973 tCO2e 17) GS7362: 7,978 tCO2e 18) GS7363: 7,978 tCO2e 19) GS7364: 7,978 tCO2e 20) GS7365: 5,546 tCO2e 21) GS7366: 5,546 tCO2e
Total SDG 5 Gender Equality	53.8% reduction in time spent collecting water across all VPA's
Total SDG 6 Clean water and sanitation for all	1) GS5106: 2,970 additional persons with access to safe water in the project activity 2) GS5186: 2,970 additional persons with access to safe water in the project activity 3) GS5187: 2,970 additional persons with access to safe water in the project activity 4) GS5188: 2,970 additional persons with access to safe water in the project activity 5) GS5189: 2,970 additional persons with access to safe water in the project activity 6) GS5190: 2,970 additional persons with access to safe water in the project activity 7) GS5191: 2,970 additional persons with access to safe water in the project activity 8) GS5192: 2,970 additional persons with access to safe water in the project activity

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- 9) GS5193: 2,970 additional persons with access to safe water in the project activity
- 10) GS5194: 2,970 additional persons with access to safe water in the project activity
- 11) GS5195: 2,970 additional persons with access to safe water in the project activity
- 12) GS5196: 3,757 additional persons with access to safe water in the project activity
- 13) GS5197: 3,757 additional persons with access to safe water in the project activity
- 14) GS6349: 3,757 additional persons with access to safe water in the project activity
- 15) GS6350: 3,757 additional persons with access to safe water in the project activity
- 16) GS6351: 3,757 additional persons with access to safe water in the project activity
- 17) GS7362: 3,757 additional persons with access to safe water in the project activity
- 18) GS7363: 3,757 additional persons with access to safe water in the project activity
- 19) GS7364: 3,757 additional persons with access to safe water in the project activity
- 20) GS7365: 3,757 additional persons with access to safe water in the project activity
- 21) GS7366: 3,757 additional persons with access to safe water in the project activity

4 VERIFICATION OPINION

Unmodified Opinion	N/A
Modified Opinion (see reasons below)	N/A
Adverse Opinion (see reasons below)	N/A
Disclaimer of Opinion (see reasons below)	N/A

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

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

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

Conclusion:

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

Project related activity	Verification
Type of verification	Third-party verification
Project Title (s)	1) GS1247 VPA 71: Lango Safe Water Project (GS5106) 2) GS1247 VPA 72 Lango Safe Water Project (GS5186) 3) GS1247 VPA 73 Lango Safe Water Project (GS5187) 4) GS1247 VPA 74: Lango Safe Water Project (GS5188) 5) GS1247 VPA 75 Lango Safe Water Project (GS5189) 6) GS1247 VPA 76 Lango Safe Water Project (GS5190) 7) GS1247 VPA 77 Lango Safe Water Project (GS5191) 8) GS1247 VPA 78 Lango Safe Water Project (GS5192) 9) GS1247 VPA 79 Lango Safe Water Project (GS5193) 10) GS1247 VPA 80 Lango Safe Water Project (GS5194) 11) GS1247 VPA 81 Lango Safe Water Project (GS5195) 12) GS1247 VPA 82 Lango Safe Water Project (GS5196) 13) GS1247 VPA 83 Lango Safe Water Project (GS5197) 14) GS1247 VPA 139: Lango Safe Water Project (GS6349) 15) GS1247 VPA 140 Lango Safe Water Project (GS6350) 16) GS1247 VPA 141 Lango Safe Water Project (GS6351) 17) GS1247 VPA 183 Lango Safe Water Project (GS7362) 18) GS1247 VPA 184 Lango Safe Water Project (GS7363) 19) GS1247 VPA 185 Lango Safe Water Project (GS7364) 20) GS1247 VPA 186 Lango Safe Water Project (GS7365) 21) GS1247 VPA 187 Lango Safe Water Project (GS7366)
Responsible Party	CO2balance UK Ltd

¹: as evident in publication from GoldStandard https://www.goldstandard.org/sites/default/files/project-profile-gender_responsive_project.pdf

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Type of environmental Information statement	Historical in nature	
Start of Monitoring Period	MP4	
	GS7362: 01/04/2022	
	GS7363: 01/04/2022	
	GS7364: 01/04/2022	
	GS7365: 01/04/2022	
	GS7366: 01/04/2022	
	MP5	
	GS5196: 01/04/2022	
	GS5197: 01/04/2022	
	GS6349: 01/04/2022	
	GS6350: 01/04/2022	
	GS6351: 01/04/2022	
	MP6	
	GS5189-95: 01/04/2022	
	MP7	
	GS5106 & GS5186-8: 01/04/2022	
	End of Monitoring period	MP4
		GS7362: 31/03/2023
		GS7363: 31/03/2023
	GS7364: 31/03/2023	
	GS7365: 31/03/2023	
	GS7366: 31/03/2023	
	MP5	
	GS5196: 31/03/2023	

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	GS5197: 31/03/2023	
	GS6349: 31/03/2023	
	GS6350: 31/03/2023	
	GS6351: 31/03/2023	
	MP6	
	GS5189-95: 31/03/2023	
	MP7	
	GS5106 & GS5186-8: 31/03/2023	
Date of MR Report	GSID	Date of MR
	GS5106, GS5186-94, GS5196-7, GS6349-51, GS73626	08/02/2024
	GS5195	08/02/2024
Version of MR Report	GSID	Version of MR
	GS5106, GS5186-94, GS5196-7, GS6349-51, GS73626	4
	GS5195	3

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

SustainCERT (SC) concludes that:

The GHG emission reductions are calculated without material misstatements for the aforementioned monitoring period and has been prepared in accordance with the verification criteria and is a materially correct and fair representation of GHG other reporting information.

Our opinion refers to reported project's information on GHG emissions and resulting reductions, which were determined using the valid and certified baseline, monitoring plan and other relevant documents.

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

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

¹: as evident in publication from GoldStandard https://www.goldstandard.org/sites/default/files/project-profile-gender_responsive_project.pdf



Vintage Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/04/2022 – 31/12/2022	1) GS5106: 3,106 2) GS5186: 3,269 3) GS5187: 2,684 4) GS5188: 2,905 5) GS5189: 2,104 6) GS5190: 1,753 7) GS5191: 2,806 8) GS5192: 3,710 9) GS5193: 3,507 10) GS5194: 1,220 11) GS5195: 736 12) GS5196: 3,131 13) GS5197: 2,171 14) GS6349: 2,631 15) GS6350: 2,669 16) GS6351: 2,723 17) GS7362: 2,806 18) GS7363: 2,800 19) GS7364: 2,342 20) GS7365: 2,702 21) GS7366: 2,806	1) GS5106: 0 2) GS5186: 0 3) GS5187: 0 4) GS5188: 0 5) GS5189: 0 6) GS5190: 0 7) GS5191: 0 8) GS5192: 0 9) GS5193: 0 10) GS5194: 0 11) GS5195: 0 12) GS5196: 0 13) GS5197: 0 14) GS6349: 0 15) GS6350: 0 16) GS6351: 0 17) GS7362: 0 18) GS7363: 0 19) GS7364: 0 20) GS7365: 0 21) GS7366: 0	1) GS5106: 0 2) GS5186: 0 3) GS5187: 0 4) GS5188: 0 5) GS5189: 0 6) GS5190: 0 7) GS5191: 0 8) GS5192: 0 9) GS5193: 0 10) GS5194: 0 11) GS5195: 0 12) GS5196: 0 13) GS5197: 0 14) GS6349: 0 15) GS6350: 0 16) GS6351: 0 17) GS7362: 0 18) GS7363: 0 19) GS7364: 0 20) GS7365: 0 21) GS7366: 0	1) GS5106: 2,659 2) GS5186: 2,798 3) GS5187: 2,298 4) GS5188: 2,487 5) GS5189: 1,801 6) GS5190: 1,501 7) GS5191: 2,402 8) GS5192: 3,176 9) GS5193: 3,002 10) GS5194: 1,044 11) GS5195: 636 12) GS5196: 2,033 13) GS5197: 1,858 14) GS6349: 2,252 15) GS6350: 2,284 16) GS6351: 2,330 17) GS7362: 2,402 18) GS7363: 2,397 19) GS7364: 2,004 20) GS7365: 2,312 21) GS7366: 2,402
01/01/2023 – 31/03/2023	1) GS5106: 1,016 2) GS5186: 1,070 3) GS5187: 863 4) GS5188: 951 5) GS5189: 597 6) GS5190: 542 7) GS5191: 918 8) GS5192: 1,214 9) GS5193: 1,148 10) GS5194: 407 11) GS5195: 301 12) GS5196: 756 13) GS5197: 710 14) GS6349: 861 15) GS6350: 873 16) GS6351: 875 17) GS7362: 918 18) GS7363: 887 19) GS7364: 766 20) GS7365: 884 21) GS7366: 918	1) GS5106: 0 2) GS5186: 0 3) GS5187: 0 4) GS5188: 0 5) GS5189: 0 6) GS5190: 0 7) GS5191: 0 8) GS5192: 0 9) GS5193: 0 10) GS5194: 0 11) GS5195: 0 12) GS5196: 0 13) GS5197: 0 14) GS6349: 0 15) GS6350: 0 16) GS6351: 0 17) GS7362: 0 18) GS7363: 0 19) GS7364: 0 20) GS7365: 0 21) GS7366: 0	1) GS5106: 0 2) GS5186: 0 3) GS5187: 0 4) GS5188: 0 5) GS5189: 0 6) GS5190: 0 7) GS5191: 0 8) GS5192: 0 9) GS5193: 0 10) GS5194: 0 11) GS5195: 0 12) GS5196: 0 13) GS5197: 0 14) GS6349: 0 15) GS6350: 0 16) GS6351: 0 17) GS7362: 0 18) GS7363: 0 19) GS7364: 0 20) GS7365: 0 21) GS7366: 0	1) GS5106: 870 2) GS5186: 915 3) GS5187: 738 4) GS5188: 813 5) GS5189: 511 6) GS5190: 464 7) GS5191: 786 8) GS5192: 1,039 9) GS5193: 982 10) GS5194: 348 11) GS5195: 260 12) GS5196: 647 13) GS5197: 608 14) GS6349: 737 15) GS6350: 747 16) GS6351: 749 17) GS7362: 786 18) GS7363: 759 19) GS7364: 656 20) GS7365: 756 21) GS7366: 786

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01/04/2022	1) GS5106: 4,122	1) GS5106: 0	1) GS5106: 0	1) GS5106: 3,529
-	2) GS5186: 4,338	2) GS5186: 0	2) GS5186: 0	2) GS5186: 3,713
	3) GS5187: 3,547	3) GS5187: 0	3) GS5187: 0	3) GS5187: 3,036
31/03/2023	4) GS5188: 3,856	4) GS5188: 0	4) GS5188: 0	4) GS5188: 3,300
	5) GS5189: 2,702	5) GS5189: 0	5) GS5189: 0	5) GS5189: 2,312
	6) GS5190: 2,296	6) GS5190: 0	6) GS5190: 0	6) GS5190: 1,965
	7) GS5191: 3,724	7) GS5191: 0	7) GS5191: 0	7) GS5191: 3,188
	8) GS5192: 4,925	8) GS5192: 0	8) GS5192: 0	8) GS5192: 4,215
	9) GS5193: 4,655	9) GS5193: 0	9) GS5193: 0	9) GS5193: 3,984
	10) GS5194: 1,627	10) GS5194: 0	10) GS5194: 0	10) GS5194: 1,392
	11) GS5195: 1,036	11) GS5195: 0	11) GS5195: 0	11) GS5195: 896
	12) GS5196: 3,131	12) GS5196: 0	12) GS5196: 0	12) GS5196: 2,680
	13) GS5197: 2,881	13) GS5197: 0	13) GS5197: 0	13) GS5197: 2,466
	14) GS6349: 3,493	14) GS6349: 0	14) GS6349: 0	14) GS6349: 2,989
	15) GS6350: 3,542	15) GS6350: 0	15) GS6350: 0	15) GS6350: 3,031
	16) GS6351: 3,598	16) GS6351: 0	16) GS6351: 0	16) GS6351: 3,079
	17) GS7362: 3,724	17) GS7362: 0	17) GS7362: 0	17) GS7362: 3,188
	18) GS7363: 3,686	18) GS7363: 0	18) GS7363: 0	18) GS7363: 3,156
	19) GS7364: 3,108	19) GS7364: 0	19) GS7364: 0	19) GS7364: 2,660
	20) GS7365: 3,586	20) GS7365: 0	20) GS7365: 0	20) GS7365: 3,068
	21) GS7366: 3,724	21) GS7366: 0	21) GS7366: 0	21) GS7366: 3,188

The conclusion is reached based on the following criteria:

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

- GS4GG Principles & Requirements
- GS4GG Stakeholder Consultation Requirements & Guidelines
- 112_V2.0_PAR_Site-Visit-and-Remote-Audit-Requirements
- GS4GG Safeguarding Principles & Requirements
- GS4GG GHG-Emissions-Reduction-Sequestration-Product-Requirements
- GS4GG validated versions of VPA-DD (s):
 - GS5106 & 5186-94: V1GS5196-7 & 7362-3, 5: V5
 - GS6349-51: V6
 - GS7364 & 7366: V3
 - GS5195: V1
- 100-GS4GG-Programme-of-Activity-Requirements-
- Applied methodology TPDDTEC v1.

Authorised Signatory Name:	Peter Konijn – Director of Quality and Compliance
Signature	 87AB08E55AA041D...
Date of this report approval	21/02/2024
Version of this report	02
Office Location	Luxembourg

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

The responsible party is responsible for the preparation and fair presentation of the GHG statement in accordance with the criteria.

5 METHODOLOGY

5.1 Desk Review

An initial verification documentary review was conducted by SustainCERT involving:

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

A Protocol was used to assess each requirement during the execution of assessment activities and is explained below. The completed Protocol is available in section 5.5 below.

5.2 Example Protocol

The name/section of the reporting template is indicated in the top row					
Type	Ref	Rule	Assessment Question	Findings/Comments	Conc.
V or I This indicates the type of assessment. V = validation/verification I = inclusion (a streamlined validation for VPAs)	Details the section and section number in the reporting template (PDD or MR)	Provides a reference to the GS rule	Question used to determine compliance with the rule, or if the rule is applicable	Used to track clarifications or corrective actions raised when the assessment question does not immediately lead to a conclusion.	Conclusion of each assessment question.

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

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

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

- OK - issued when a requirement has been met.
- CAR (Corrective Action Request) - issued if one of the following occurs:

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

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

5.3 Example Review Feedback

Rule	Assessment Question	Findings/Comments	Developer Response
Copied from the Protocol	Copied from the Protocol	Copied from the Protocol, the nature (and number – e.g. CAR 1/CAR 2) of the Finding is included for traceability	The response should include an explanation of what evidence has been provided in response to the Finding

5.4 Site Visit

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

It was determined during our Risk Analysis that a site was required. A site visit was undertaken by an Objective Observer, in line with Gold Standard rules and following SustainCERT instruction. The Objective Observer was specially selected for their technical expertise, familiarity with the project location, local language and customs.

This visit was carried out from 4/12/2023 to 7/12/2023 to do the following:

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

¹: as evident in publication from GoldStandard https://www.goldstandard.org/sites/default/files/project-profile-gender_responsive_project.pdf

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The site visit took place in locations chosen by the Objective Observer following instruction by SustainCERT on choosing a representative sample. The list of interviewees, locations and topics discussed are recorded in the accompanying Gold Standard Verification Appraisal Report.

Remote call with Project Developer's representative had taken place on the 04/01/2024 with agenda including:

1. Assess the design/operation of the Project
2. Interview personnel and stakeholders regarding the Project operation and data collection procedures.
3. Cross check reported information with evidence observed on site (Verification Appraisal Report)
4. The desk review findings and follow up action

¹: as evident in publication from GoldStandard https://www.goldstandard.org/sites/default/files/project-profile-gender_responsive_project.pdf

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5.5 ASSESSMENT PROTOCOL

The Protocol covers the key thematic areas in Gold Standard certification and is tailored to the review type and the mandatory reporting template (MR/PDD). The key thematic areas addressed in the Protocol are:

- GHG emission reductions (known as SDG 13 contributions)
- Other SDG contributions
- Compliance with Safeguarding Principles
- Compliance with Stakeholder Consultation (LSC) requirements

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Appendix: 1- CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS

Review Feedback Round:	III
Supporting Document (s) provided and Reviewed	<p>Round I</p> <ol style="list-style-type: none"> 1) GS5195 Lango Project_MR_MP6 V1 2) Lango Project_MR_MP7 V1 3) Lango fNRB Calculation Report 2023 v1 4) Lango Safe Water Project_ERs_MP7 (SWS caps applied) V1 5) GS5195_GS 5195_Revised FVR_Lango safe water project_MP05_GS Review_Clean mode_08 06 2023 6) GS5106_GS 1247_Lango Safe water Project_Revised FVR_GS review_Resubmission_Clean versi 7) Lango FWQTs Aug 2022 (PART B) 8) Lango FWQTs Aug 2022 (PART A) 9) Lango FWQTs Aug 2022 (PART C) 10) Lango FWQTs Aug 2022 (PART D) 11) Lango FWQTs Aug 2022 (PART E) 12) Lango FWQTs Aug 2022 (PART F) 13) Lango monitoring photos VPA 71 14) Lango monitoring photos VPA 72 15) Lango monitoring photos VPA 73 16) Lango monitoring photos VPA 74 17) Lango monitoring photos VPA 75 18) Lango monitoring photos VPA 76 19) Lango monitoring photos VPA 77 20) Lango monitoring photos VPA 78 21) Lango monitoring photos VPA 79 22) Lango monitoring photos VPA 80 23) Lango monitoring photos VPA 81 24) Lango monitoring photos VPA 82 25) Lango monitoring photos VPA 83 26) Lango monitoring photos VPA 139 27) Lango monitoring photos VPA 141 28) Lango monitoring photos VPA 140 29) Lango monitoring photos VPA 183 30) Lango monitoring photos VPA 184 31) Lango monitoring photos VPA 185 32) Lango monitoring photos VPA 186 33) Lango monitoring photos VPA 187 34) LANGO Project WASH Training Confirmation v1.3 (Mar-Apr 2023) 35) Lango RCFs Jun_July_Aug 22 36) Lango WASH Photos_Sample

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- 37) LANGO_Project_Repair_Confirmation_Form_v1.3_Apr_2022_-_Mar_2023
- 38) Lango SW Project Survey - March 2023 V1 – FINAL
- 39) Lango SW Usage Survey - March 2023 V1_FINAL
- 40) Lango WCFT MP7_Wet_and_Dry_Season – FINAL
- 41) Lango MP7 Random Sample Process - January 2023
- 42) Gender Equality Annex 2022_MP7
- 43) Verification Appraisal Report (4/12/2023 – 7/12/2023)

Round II

- 1) GS5195 Lango Project_MR_MP6 V2 CLEAN.docx
- 2) GS5195 Lango Project_MR_MP6 V2 CLEAN.pdf
- 3) GS5195 Lango Project_MR_MP6 V2 TRACK.docx
- 4) GS5195 Lango Project_MR_MP6 V2 TRACK.pdf
- 5) Lango Project_MR_MP7 V2 CLEAN.docx
- 6) Lango Project_MR_MP7 V2 CLEAN.pdf
- 7) Lango Project_MR_MP7 V2 TRACK.docx
- 8) Lango Project_MR_MP7 V2 TRACK.pdf
- 9) CO2balance declaration on legal disputes_grievances - Lango.pdf
- 10) Desk-Review-Finding-GS5106-GS5186-GS5197-GS6349-GS6351-GS7362-GS7366-MP7 Rd1.docx
- 11) Gender Equality Annex 2022_MP7.docx
- 12) GS5195 Lango Project_ERs_MP6 V2.xlsx
- 13) LAN004 Kulu Omara.jpg
- 14) Lango fNRB Calculation 2023_v2.xlsx
- 15) Lango fNRB Calculation Report 2023 v2.docx
- 16) Lango Safe Water Project_ERs_MP7 (SWS caps applied) V2.xlsx
- 17) LANGO_Project_Repair_Confirmation_Form_v1.3_Apr_2022_-_Mar_2023_v2.xlsx
- 18) Requested_CTFs.pdf
- 19) Updated_CTFs.xlsx
- 20) GS5106 VPA-DD Lango Safe Water Project_Final v1.pdf
- 21) GS5186 VPA-DD Lango Safe Water Project_Final v1.pdf
- 22) GS5187 VPA-DD Lango Safe Water Project_Final v1.pdf
- 23) GS5188 VPA-DD Lango Safe Water Project_Final v1.pdf
- 24) GS5189 VPA-DD Lango Safe Water Project_Final v1.pdf
- 25) GS5190 VPA-DD Lango Safe Water Project_Final v1.pdf
- 26) GS5191 VPA-DD Lango Safe Water Project_Final v1.pdf
- 27) GS5192 VPA-DD Lango Safe Water Project_Final v1.pdf
- 28) GS5193 VPA-DD Lango Safe Water Project_Final v1.pdf
- 29) GS5194 VPA-DD Lango Safe Water Project_Final v1.pdf
- 30) GS5195 VPA-DD Lango Safe Water Project - v1.pdf
- 31) GS5196_PDD v5 CLEAN.pdf

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- 33) GS6349_PDD v6 CLEAN.pdf
- 34) GS6350_PDD v6 CLEAN.pdf
- 35) GS6351_PDD_v6 CLEAN.pdf
- 36) GS7362_VPA-DD v5 CLEAN.pdf
- 37) GS7363_VPA-DD v5 CLEAN.pdf
- 38) GS7364_VPA-DD v3 CLEAN.pdf
- 39) GS7365_VPA-DD v5 CLEAN.pdf
- 40) GS7366_VPA-DD v3 CLEAN.pdf
- 41) CO2balance declaration on legal disputes_grievances - Lango(1).pdf
- 42) FINAL-Desk-Review-Finding-GS5106-GS5186-GS5197-GS6349-GS6351-GS7362-GS7366-MP7 Rd1 (1).docx
- 43) GS5195 Lango Project_ERs_MP6 V3.xlsx
- 44) Lango Project_MR_MP7 V3 CLEAN.docx
- 45) Lango Project_MR_MP7 V3 CLEAN.pdf
- 46) Lango Project_MR_MP7 V3 TRACK.docx
- 47) Lango Project_MR_MP7 V3 TRACK.pdf
- 48) Lango Safe Water Project_ERs_MP7 (SWS caps applied) V3.xlsx

Round III

- 1) 2nd Round-Review-Finding-GS5106-GS5186-GS5197-GS6349-GS6351-GS7362-GS7366-MP7.docx
- 2) Apuru Follow-Up Visit entry - Q4 2022.xlsx
- 3) Apuru logbook photo - Q4 2022.jpg
- 4) GS5195 Lango Project_ERs_MP6 V3.xlsx
- 5) GS5195 Lango Project_MR_MP6 V3 TRACKED.docx
- 6) LAN022 Otikokin WRC repair letter MP7.pdf
- 7) Lango fNRB Calculation 2023_v2.xlsx
- 8) Lango fNRB Calculation Report 2023 v3.docx
- 9) Lango Project_MR_MP7 V4 TRACKED.docx
- 10) Lango Safe Water Project_ERs_MP7 (SWS caps applied) V4.xlsx
- 11) GS5195 Lango Project_MR_MP6 V3 CLEAN
- 12) Lango Project_MR_MP7 V4 CLEAN

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
Meth	For SDG 13, has <u>verifiable</u> supporting evidence for each <u>high-risk</u> monitoring parameter been provided?	<p>1) PD is requested to provide ER calculation for VPA 81 (GS5195) as the ER calculation file (Lango Safe Water Project_ERs_MP7 (SWS caps applied) V1) contains calculation for the rest 20 VPAs.</p> <p>2) fNRB calculation report provided has been reviewed with points identified in need for further clarification/evidence as followed:</p> <p>a. PD is requested to provide justification on why earlier version of Tool 30 ie version 3 is used instead of version 4 (effective 8 September 2022).</p> <p>b. As per Tool 30, parameter MAIforest,l, MAIother,i can derived from:</p> <p>a) Global Forest Resources Assessment 2000 by the FAO for “Distribution of total forest area by ecological zone” (Table 14); and/or</p> <p>b) 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories for “Above-ground biomass growth rates for different ecological zones” (Chapter 4, Table 4.9). Use a weighted average based on the forest area of three categories (i.e. primary forests, above and below 20 years secondary forests), if such data is available. Otherwise, use a simple average of the two age categories of secondary forests or a simple average of the three categories if primary forests exist;</p> <p>c) Global Forest Resources Assessment (e.g. Table 17 “Net annual increment in forest 1990-2015” in 2015 version);</p> <p>d) National studies or government data or official statistics.</p>	<p>1) PD has provided a separate spreadsheet with the ER calculation for VPA 81 (GS5195) in the original submission, this was submitted on the same date as the ER calculation spreadsheet for the other 20 VPAs and can be seen on the SC platform in the Emission Reduction Calculation Excel File section (screenshot of SC platform below). The required document is titled “GS5195 Lango Project_ERs_MP6” and is now updated to V2.</p> <div data-bbox="1610 655 2130 778" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>GS5195 Lango Project_ERs_MP6 V1.xlsx 🔒 Private</p> <p>Uploaded on Sep 06, 2023.</p> <p>Modified on Sep 06, 2023.</p> </div> <p>2) a)</p> <p>Version 4 of Tool 30 has been used throughout; this was a typing error in the report which has now been rectified.</p> <p>b) Excel document “Lango fNRB Calculation 2023_v1.xlsx” has now been provided. This details the approach applied to calculate MAIforest, MAIother, RB, H, fuelwood consumption etc. based on d) method in the list provided (Official Statistics). Sources for all required parameters are included here. The overall method applied was developed by Bailis et al (Bailis et al., 2015. The carbon footprint of traditional woodfuels. Nature Climate Change 2015 (5), 266-272.). Land classification follows the approach of Buchorn et al (Buchorn et al., 2020. Copernicus Global Land Service: Land Cover 100m: collection 3: epoch 2019: Globe 2020). This approach is justified as it follows academically verified methodologies and is suitable for use in a GIS system. More detailed variables such as Canopy Cover and Tree Height are considered, which is likely to</p>

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>In the calculation presented, MAI is obtained from interpretation of using ArcGIS Pro 3 determining land use type for each roster cell for each ecological zone and summing all together. PD is requested to provide transparent evidence on the approach with each of the data used including database from which interpretation was carried out.</p> <p>a. Transparent calculation for parameter RB</p> <p>b. For calculation parameter H, the following parameters required further evidence/clarification: -PD is requested to provide data source from which census from year 1991, 2002 and 2021 is claimed as basis for creating linear forecast for population used ie 266361. PD is also requested to provide clarification in which year in which population of 266361 is estimated for. -PD is requested to provide data source literature as claimed for value of commercial fuelwood consumption</p> <p>d. For calculation on the parameter of HW (Average consumption of wood fuel per household, including fuelwood and charcoal, in the applicable area in the relevant period) is sighted to be the total of fuelwood and charcoal, whilst the charcoal consumption data requires to be converted to fuelwood using CF as regulated in Tool 30 (V4). The charcoal consumption from the source is not indicated whether this is for household consumption or as total for the country. Based on the formulation, it is assumed to be for household consumption. PD is requested to provide justification. PD is requested to specify which literature that stated the industrial consumption of woodfuel is less than 5% [NEsv]. The parameter CE is sighted to be missing. For population of Lango, In order to prevent double counting, PD is requested to</p>	<p>result in a more accurate final fNRB value when compared to the use of IPCC/FRA generalized factors for example. Full detail is given in the updated report.</p> <p>b.b. Incorrect values for population projection and fuelwood consumption in the report were included. An updated report with correct values has now been provided ("Lango fNRB Calculation 2023_v1.xlsx").</p> <p>c) Calculation of HW – A conversion factor for charcoal is not required here since the table within the referenced source, from which the charcoal value is taken is already in the unit of tonnes of timber (fuelwood), rather than tonnes of charcoal. Calculation has been updated to include the Uganda National Charcoal Survey 2015 report, describing the fraction of charcoal consumed by households relative to the total volume for the country. This is the most recent version of this dataset available. Since we are being conservative in setting both NEsv and CE as '0', no further justification is required. Information regarding Commercial Fuelwood (CE) and Non-fuelwood (NE) applications is only available at a country wide scale in most cases (including this such case). Unlike household fuel-use, it is not appropriate to assign regional values based on population as dominant industry types may vary from region to region, resulting in different wood utilisation requirements. This information has been added into the document 'Lango fNRB Calculation Report 2023 v3'. Calculation has been updated to reflect populations within the project areas included within the PDD,</p>

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>provide clarification what are the boreholes belong to sub-district (Amolatar, Apac, Kwania) mentioned in the “Lango Population” tab.</p> <p>3) Parameter Py is sighted that values for technology days is incorrect for borehole LAN081 Aton, LAN085 Ober and LAN089 Adagawaka. Under the tab of BH Failure Data (WQT and Repair), all three boreholes are indicated with status of failed meeting quality parameter, however under tab ‘Project Technology Days’ 0 non-functional days is sighted. In Tab “Project Technology Days”, non-functional days for these 3 borehole IDs is 0, while in Tab “BH Failure Data (WQT & Repair), it is 90 days</p> <p>4) Section D.2 of the MR for: a) parameter Breakdown Days,y is claimed to be 169 days (54% operationality) for GS5106, GS5186-GS5197, GS6349-GS6351, GS7362-GS7366 b) Failure Days,y (Non-functional days) as 1,135 days (98% operationality) for GS5195. This is sighted to be inconsistent with the values claimed in ER calculation. GS5106, GS5186-GS5197, GS6349-GS6351, GS7362-GS7366 total breakdown days (defined as Number of days a particular water point was nonfunctioning during year y) is 305 days for repair without the addition of non-functional days due to not meeting quality parameter. ER calculation for GS5195 is not provided for verification against MR claim (see point above)</p> <p>5) Value calculated for breakdown days in ER calculation under the tab ‘Repair Log 2022’ and ‘Repair Log 2023’ is sighted that the number of days are counted not including both the date it</p>	<p>and the current locations of project boreholes. Amolatar, Apac and Kwania have been removed. Initially the calculation included them erroneously based on an outdated map of the Lango region. The new version is submitted as Lango fNRB Calculation Report 2023_v2.xlsx.</p> <p>3) PD has corrected the linked calculations for boreholes LAN081, LAN085 and LAN089 and the required non-functional days as a result of water quality failure are now demonstrated in the tab ‘Project Technology Days’ in the ER spreadsheet.</p> <p>4) PD believes the figures listed in the CAR have been mixed up as in V1 of the MR, the figure for Breakdown Days,y of 169 is under the GS5195 MR, and the figure for Failure Days,y of 1,135 is under the GS5106, GS5186-GS5197, GS6349-GS6351, GS7362-GS7366 MR. PD has updated both MRs so that the phrasing is consistent. The parameter for ‘Failure Days’ only includes the days a borehole was non-functioning due to breakdown and repair, based on the RCFs. It does not include the days a borehole was non-functioning due to WQT failure. Non-functional days includes both failure days and WQT non-functioning days and is a different value. PD has added this information to Section D2 of the MR to clarify.</p> <p>5) PD has added a +1 calculation to the column “Time Non-Functional” in tabs “Repair Log 2022” and “Repair Log 2023” in the spreadsheet “Lango Safe Water Project_ERS_MP7 (SWS</p>

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>is reported broken and the date it is repaired. With Repair record (RCF) not providing data for time on the date that the repair is reported and completed, under conservative approach, both dates shall be counted for.</p> <p>PD is requested to provide justification on how Breakdown days in the ER calculation tab 'Repair Log 2022' which was not accounted into non-functioning days for LAN039 Apala A with record of breakdown reported 30.07.2022 and repair completed on 17.08.2022. The same finding is sighted with LAN052 Awiro, LAN065 Otoro, LAN080 Ayile, LAN081 Aton, LAN133 Adakingo and LAN142 Odeo in year 2022. Based on the RCF record, few of the cases are categorized as major.</p> <p>Based on the data recorded in the usage survey (Feb-March 2023), 2 boreholes Otikokin and Abilonino are recorded to have non-functional days claimed by users. Both boreholes are verified in the ER calculation under Project Technology days to have no non-functional days.</p> <p>6) In MR, Section C, PD has stated that "The total number of households using each borehole has been determined through the lists supplied by the community group and district officials. Further studies are conducted to screen and determine the exact number of people using the rehabilitated boreholes. Using this method, the total number of people using each borehole has been fixed and hence a figure for person days can be calculated"</p>	<p>caps applied) V2" in order to account for this. PD has also added a +1 calculation to the column "Time Non-Functional" in tab "Repair Log" in the spreadsheet "GS5195 Lango Project_ERs_MP6 V2".</p> <p>PD has corrected the calculations for time non-functional for boreholes LAN039, LAN052, LAN065, LAN080, LAN081, LAN133 and LAN142 in tab "Repair Log 2022" in the ERs and this has been incorporated into the PTDs.</p> <p>1 non-functional day has been added to the ER calculation for LAN128 Abilonino based on the Usage Survey data, in order to remain conservative. An RCF has since been submitted for LAN022 Otikokin and the corresponding PTDs updated in the ERs. PD has investigated any further breakdowns with these boreholes with the field team and no further RCFs are available. The RCFs are the final document we work from to record borehole breakdowns, not the usage survey. PD will provide a letter signed by the Water Resource Committee stating the exact breakdown days for LAN022 Otikokin in or before the next round of findings.</p> <p>6) Initial lists are provided by the community group/district officials with which boreholes to rehabilitate and how many households/people are in each community. After the rehabilitation has been completed, field officers collect user lists throughout the crediting period in order to ensure the number of people using each borehole is kept up to date. These are the further studies, and this number is used to calculate Py for the monitoring period. PD has updated the statement in the MR Section C to reflect this.</p>

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>PD is requested to explain how the exact number of people using rehabilitated boreholes was studied and conducted. PD shall submit evidence to support this statement if recorded.</p>	
	<p>Round-2</p>	<p>1) ER calculation for VPA 81 (GS5195) has been provided.</p> <p>2)</p> <p>a. Revised fnrb report “Lango fNRB Calculation Report 2023 v2.docx” is now stated correct version of Tool 30 version 4.</p> <p>b.</p> <p>a. Transparent calculation and source of RB has been provided in section 2 of fbrn report “Lango fNRB Calculation Report 2023 v2.docx”</p> <p>b. Correct population value has been applied in “Lango fNRB Calculation 2023_v2.xlsx”</p> <p>c. PD shall submit “Lango fNRB Calculation Report 2023 v3” with added information on parameter NEsv and CE as ‘0’ with justification as per stated in response as well as revising the fNRB value calculated as per fNRB Calculation 2023_v2.xsl. Comment remains open.</p> <p>3) Correction has been applied for boreholes LAN081, LAN085 and LAN089 and the required non-functional days as a result of water quality failure are now demonstrated in the tab ‘Project Technology Days’ in the ER spreadsheet “Lango Safe Water Project_ERs_MP7 (SWS caps applied) V2.xlsx). Section E.4 SDG13 calculation is sighted to be using Nj,y instead of</p>	<p>2) b. c. PD has submitted ‘Lango fNRB Calculation Report 2023 v3’ with the requested information on parameter NEsv and CE as ‘0’ and the fNRB value has been updated within the document as 0.81.</p> <p>3) PD has updated Section E.4 to ensure Np,y is used consistently across the documents to refer to project technology days.</p> <p>5) PD has submitted a letter signed by the Water Resource committee for LAN022 Otikokin confirming the exact breakdown days for this borehole which were not reported to CO2balance via an RCF (document titled ‘LAN022 Otikokin WRC repair letter MP7’). This has added an additional 17 failure days (in the ERs) in 2022 alongside the failure days from the RCF in 2023. These are the final failure days we will be using for this monitoring period for LAN022 Otikokin. The ERs and MR have been adjusted accordingly. Please note to disregard entry 2 in the letter as this breakdown occurred after the end of this monitoring period.</p>

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>Np,y for project technology days inconsistent with the rest of the ER and MR. Point remains open.</p> <p>4) Revised MR section D.2, the statement of “failure days” has included information of the non-functional days of the boreholes due to WQT failure.</p> <p>5) PD shall submit a letter signed by the Water Resource Committee stating the exact breakdown days for LAN022 Otikokin. Comment remains open.</p> <p>6) In the revised MR, "Lango Project_MR_MP7 V3 CLEAN.pdf", section C, is provided information on how the exact number of people using rehabilitated boreholes was studied and determined.</p> <p>CAR#1 remains open for point 2.b.c, 3 and point 5 above.</p>	
	Round-3	<p>2) b. c. Revised fnrb report v.3'Lango fNRB Calculation Report 2023 v3' section 3 has been updated with value of parameter NEsv and CE as '0' and the fNRB value has been updated within the document as 0.81 in section 1. The comment is closed.</p> <p>3) In revised MR of GS5434-GS5781-83-GS5889-92, Nj,y instead of Np,y for project technology days remains inconsistent with the rest of the ER and MR. Based on the project's information including ER calculation that this inconsistency is concluded to be immaterial ie not affecting the ER calculation and that this is not presenting a risk to mislead project ER calculation.</p>	

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Rule	Assessment Question	Findings/Comments CAR#1	Developer Response
		<p>5) A letter signed by the Water Resource committee "LAN022 Otikokin WRC repair letter MP7.pdf" for LAN022 Otikokin confirming the exact breakdown days (17 days) and is correctly reflected in ER calculation excel "Lango Safe Water Project_ERs_MP7 (SWS caps applied) V4.xlsx". The comment is closed.</p> <p>CAR#1 is closed off.</p>	

Rule	Assessment Question	Findings/Comments CAR#2	Developer Response
P&R 4.1.19 (c)	Does the project information correlate with the PDD/VPA-dd? (small differences in numbers are ok, a perfect match is not required)?	<p>Project information is sighted missing detail for coordinate for borehole:</p> <p>-LAN004 Kulu Omara -LAN083 Alango Okwangole both in section A.1 in the MR as well as in project database (Lango Safe Water Project_ERs_MP7 (SWS caps applied) V1 tab Project Technology Days). PD is requested to provide photo evidence of the boreholes (visible with borehole ID) listed above with geo-coordinates information.</p>	<p>PD has extracted updated GPS coordinates for LAN004 and LAN083 from recent surveys and updated these within the ER spreadsheet and the MR. PD has submitted photo evidence of borehole with visible borehole ID branding for LAN004. The system we use to collect photos does not automatically apply the GPS coordinates to the image, they are instead collected through KoboCollect surveys. LAN083 was inactive during this monitoring period, and has therefore not been recently visited to collect a photo of the branding.</p>
	Round-2	<p>GPS coordinates for LAN004 and LAN083 has been updated in ER and MR. Photo evidence of borehole with visible borehole ID branding for LAN004 has been submitted.</p> <p>CAR#2 is closed off</p>	

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Rule	Assessment Question	Findings/Comments CAR#3	Developer Response
P&R 4.1.45	Is the vintage break calculated correctly (and has considered microscale projects whose cap on emission reductions must not be crossed either in a vintage <u>or</u> in a monitoring year.	Monitoring period stated in the KPI table of the MR for GS5106, GS5186-GS5194, GS5196-7, GS6349-GS6351, and GS7362-GS7366 is as 01/04/2021 to 31/03/2022, whilst this period has been claimed for its credit as verified from the GS registry as well as previous verification report.	PD has corrected the monitoring period dates in the KPI table of the MR to 01/04/2022 to 31/03/2023.
	Round-2	The monitoring period dates in the KPI table of the MR has been corrected. CAR#3 is closed off	

Rule	Assessment Question	Findings/Comments CAR#4	Developer Response
MR	Do the 3 SDG Impacts achieved match E.4	(GS5195) The value of SDG 13 impact in table 1 in MR is sighted to be inconsistent with value stated in section E4 and E5.	PD has corrected section E4 and E5.
	Round-2	The value of SDG 13 impact Section E4 and E5 has been updated in MR. CAR#4 is closed off	

Rule	Assessment Question	Findings/Comments CAR#5	Developer Response
MR D.3	For >2 nd MP of Community Service Activities only, have any increases in <u>key</u> parameters ideally in tabular form (e.g. usage, fuel savings) been justified? (noting that numbers of	Table D.3 for GS5195 is sighted to have few of the values for last monitoring period parameters stated incorrectly i.e., for Psafe, Paccess and Py.	PD has corrected Table D.3.

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Rule	Assessment Question	Findings/Comments CAR#5	Developer Response
	distributed technologies commonly differ from projections in the PDD/VPA-DD and this is beyond PD control)		
	Round-2	Table D.3 for GS5195 has been updated for value achieved in current and previous monitoring period. CAR#5 is closed off	

Rule	Assessment Question	Findings/Comments CAR#6	Developer Response
P&R 1.2.6	Are any increases adequately justified/seem reasonable? (noting that numbers of technologies and parameters may naturally vary and this is beyond PD control)	Table E.5 it is sighted that for SDG13 ER projected ex-ante for GS5195 is stated incorrectly as per VPA-DD.	Figure corrected Table E.5 to match PDD.
	Round-2	Values estimated in ex ante calculation of approved PDD in Table E.5 for SDG13 GS5195 has been updated correctly. CAR#6 is closed off	

Rule	Assessment Question	Draft Findings/Comments CAR#7	Developer Response
MR section D.4	For any parameters that were sampled, has the following been demonstrated: 1.Description of implemented sampling design; 2.Collected data;	1) Sampling was sighted to be performed across VPAs in the bundle as claimed under the section C and D4 of the MR. The information on between the two sections are sighted to be inconsistent. Section C contains statement that GS5195 is included in the sampling approach, whilst section D4 listed all of the VPAs within the sampling plans	1) GS5195 is still considered homogenous with the other VPAs due to its location. In the PDDs, homogenous VPAs are defined as those that are sharing a common baseline. In previous monitoring periods, GS5195 has also been sampled and monitored homogeneously.

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	<p>3. Analysis of the collected data; 4. Demonstration that the required confidence/precision level has been met; 5. Demonstration that the samples were randomly selected and are representative of the population</p>	<p>all but GS5195. In the section D4, it is also sighted a claim that as all VPAs are homogenous - located in the same region, use the same technology, and share a common baseline - cross sampling of devices shall be applied across all VPAs rather than on a VPA-by-VPA basis. PD is requested to provide justification on how the 21 VPAs are considered as homogeneous with GS5195 has different aspects compared to the rest of the VPAs includes: a) technology: solar powered pumps whilst the rest are manual hand pumps b) capacity: 10,000 litre capacity in comparison with 15-20 liters. PD is also requested to provide information on what is the borehole ID for GS5195 to verify whether it has been included in the sampling process.</p> <p>2) From the 'Lango MP7 Random Sample Process - January 2023' (tab Full Lango BH List) file, it is sighted that 165 boreholes are included in the sample selection process. In section C of the MR, it is sighted that the total borehole is claimed to be 170 (including GS5191). Please provide explanation on why the number of boreholes does not match up?</p>	<p>The borehole ID for the solar borehole GS5195 is LAN086 and this has been included in the sampling process.</p> <p>2) The number of boreholes does not match up between Section C of the MR and the random sample as inactive boreholes are excluded from the random sample but included in the overall borehole database list. Borehole LAN145 Te-Opok became non-functional after the random sample was undertaken, however did not end up being included in any of the annual monitoring survey data, instead data was collected from buffer households where needed. This information has been added to Section C and D.4 of the MR.</p>
<p>Round-2</p>		<p>1) The justification provided is accepted as GS5195 is homogenous with others 20VPAs due to its location and has been included in the sampling plan.</p> <p>2) Section C and D.4 of MR "Lango Project_MR_MP7 V2 TRACK.docx" has updated information on sample selection process and includes LAN145 Te-Opok, which has become non-functional after random sampling.</p> <p>CAR#7 is closed off</p>	

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Rule	Assessment Question	Findings/Comments CL#1	Developer Response										
MR Guide	Are any forward actions declared correctly and addressed?	<p>From previous monitoring period verification report, 1 FAR was raised across all VPA i.e.:</p> <p>-PD shall take into account the seasonal variations, while conducting the WCFT during the next monitoring period: The WCFT for this monitoring period was carried out between February and March 2023 in order to account for both the rainy and dry seasons in Northern Uganda.</p> <p>Verification on seasonal precipitation on Uganda is performed using data year 1991-2020 from Climate Knowledge Portal World Bank (https://climateknowledgeportal.worldbank.org/country/uganda/climate-data-historical) that precipitation is at lowest in Feb with increasing trend from March peaked at April. The volume decreases starting from May to June and July, then the trend increases in Aug-Sept and peaked at Oct with decrease in Nov and Dec.</p> <p>From the survey data, it is verified that the survey for:</p> <p>-water consumption (including storage condition): conducted in Feb and March 2023</p> <p>-usage and other parameters: March 2023</p> <p>In the section B.1.1 of the MR, FAR 2, FAR 3 and FAR 4 are sighted. PD is requested to provide clarification from which FAR2-4 is derived from.</p>	<p>FAR 2, FAR 3 and FAR 4 were raised in Performance Review so they are not listed in the Final Verification Report for MP6. They can be seen in the Performance Review Report for MP6, a screenshot of this report has been included below.</p> <p>Lango Safe Water Project (GS5106, GS5186 -GS5194, GS5196-GS5197, GS349-GS6351, GS7362- GS7366) Performance Review under Gold Standard for the Global Goals</p> <p>This document summarizes the results of GS4GG Performance Review:</p> <ul style="list-style-type: none"> Where present, Clarification/Corrective Action Requests are summarised in the Comment/Request boxes found beneath the Project Summary Information. These require a satisfactory explanatory response from the GS-VVB, or the Project Developer, before a project can be issued the GS4GG Products and SDG Impacts listed in the Monitoring Period Information table. Where present, Forward Action Requests are summarized in the table immediately below. These must be resolved during the next Verification or Performance Review, as applicable. <table border="1" data-bbox="1473 699 2130 943"> <thead> <tr> <th colspan="2">Summary of Forward Action Requests (FARs):</th> </tr> </thead> <tbody> <tr> <td>FAR # 1:</td> <td>The PD shall take into account the seasonal variations,while conducting the WCFT during the next monitoring period.</td> </tr> <tr> <td>FAR # 2:</td> <td>PD shall identify the root course reduction in time saving spent on water collected and put in place measures to address prolonged/frequent breakdowns and in order to ensure that the end users do not spend a lot of time collecting water. If the time spent on fetching water prolongs, then the project contribution to SDG5 will be affected and the PD claim on SDG will be impacted.</td> </tr> <tr> <td>FAR # 3:</td> <td>Based on the identified root course of water quality failure, PD shall document measures initiated and track the their implementation to ensure that the affected boreholes pass the water quality test. The measures put in place shall be documented in the MR during the next verification and be verified by the VVB</td> </tr> <tr> <td>FAR # 4:</td> <td>PD should recalculate the fNRB in-house for the next verification.</td> </tr> </tbody> </table>	Summary of Forward Action Requests (FARs):		FAR # 1:	The PD shall take into account the seasonal variations,while conducting the WCFT during the next monitoring period.	FAR # 2:	PD shall identify the root course reduction in time saving spent on water collected and put in place measures to address prolonged/frequent breakdowns and in order to ensure that the end users do not spend a lot of time collecting water. If the time spent on fetching water prolongs, then the project contribution to SDG5 will be affected and the PD claim on SDG will be impacted.	FAR # 3:	Based on the identified root course of water quality failure, PD shall document measures initiated and track the their implementation to ensure that the affected boreholes pass the water quality test. The measures put in place shall be documented in the MR during the next verification and be verified by the VVB	FAR # 4:	PD should recalculate the fNRB in-house for the next verification.
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FAR # 3:	Based on the identified root course of water quality failure, PD shall document measures initiated and track the their implementation to ensure that the affected boreholes pass the water quality test. The measures put in place shall be documented in the MR during the next verification and be verified by the VVB												
FAR # 4:	PD should recalculate the fNRB in-house for the next verification.												
Round-2		<p>Screenshot of FAR 2, FAR 3 and FAR 4 that were raised in Performance Review for MP6 has been provided as evidence.</p> <p>CL#1 is closed off</p>											

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Rule	Assessment Question	Draft Findings/Comments CL#2	Developer Response
MR Guide GS Meth	Does the monitoring system and the monitoring plan match the Design Certified PDD/VPA-dd?	PD is requested to provide supporting evidence on the claim implemented measures as part as monitoring plan i.e.: - reviews on hygiene status of the borehole and surrounding area - and programme of quarterly chlorination	Reviews of the hygiene status of the borehole occur during annual WASH training events for each community. The topics covered regarding borehole hygiene can be seen in the excel spreadsheet 'LANGO Project WASH Training Confirmation v1.3 (Mar-Apr 2023)'. PD has removed the statement on the programme of quarterly chlorination from section B.1 of the MR as chlorination only occurs in extreme cases of water quality failure where deemed necessary.
	Round-2	"LANGO Project WASH Training Confirmation v1.3 (Mar-Apr 2023).xlsx" has covered the topic of hygiene status during WASH training. -The statement of quartely chlorination has been removed from section B.1 of MR for GS5195 and other 20VPAs. CL#2 is closed off	

Rule	Assessment Question	Draft Findings/Comments CL#3	Developer Response
P&R 4.1.45	Does the version of Methodology (ies) applied match the PDD/VPA-dd?	Version of VPA-DD corresponding to each of the VPA verified is stated in KPI section of the MR as followed: GS5106 & 5186-94: V2 GS5196-7: V5 GS6349-51: V6 GS7362-7366: V2 GS5195: V5 VPA-DD for each of the VPA available in GS registry is version1. Previous verification report referenced VPA-DD as followed:	PD has provided the latest version of VPA-DDs for all 21 VPAs and ensured the document title and version number within the document are matching, and that these are correctly referenced in the MR. GS5106 & 5186-94: V1 GS5196-7 & 7362-3, 5: V5 GS6349-51: V6 GS7364- & 7366: V3

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Rule	Assessment Question	Draft Findings/Comments CL#3	Developer Response
		-GS5195: VPA DD (GS5195) - version 05 dated 27/04/2017 -GS5106, GS5186-GS5194, GS5195-7, GS6349-GS6351, and GS7362-GS7366: version 05 PD is requested to provide the latest version for all VPA-DD relevant for all this verification process	
	Round-2	The latest VPA-DD for each GS projects have been provided with the correct file name (version) with its version stated within the document. CL#3 is closed off.	

Rule	Assessment Question	Draft Findings/Comments CL#4	Developer Response
P&R section 4.1.12	Does the project demonstrate a clear, direct contribution to sustainable development, defined as making demonstrable, positive impacts on at least three Sustainable Development Goals (SDGs), one of which must be SDG 13 (defined herein as Emissions Reductions or Removals and/or Adaptation to climate change)?	PD shall provide clarification on what actions that have been taken whenever Water Quality Testing concluded that the water is not meeting the requirement to be a safe drinking water in this monitoring period in emphasize for those that has detected with e. coli presence in water test report as well as those with high iron level.	When a WQT has concluded that the water provided by a borehole is not meeting the requirements to be safe drinking water, the country manager liaises with the Water Quality Analyst from the National Laboratory to discuss intervention approaches. In many cases it is a result of natural causes which the PD cannot control such as flooding increasing turbidity. If the Water Quality Analyst states that intervention is recommended, the PD will take action. This usually involves improving the WASH system. In most cases within this monitoring period, the WQT parameters that failed to meet the drinking water standards (such as total iron and chlorides) don't require serious intervention. This is usually only required for parameters such as E.coli, in which case chlorination of the borehole will occur where needed. In this monitoring period, no chlorination of boreholes occurred due to the cause of failure either being heavy rainfall (out of PD control), or poor hygiene (further WASH trainings and follow-up visits undertaken). The Ministry of Water has advised against chlorination action to remain in line with other stakeholders in the area. The results of

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Rule	Assessment Question	Draft Findings/Comments CL#4	Developer Response
			any intervention measures are reflected within subsequent WQTs. This information has been added to Section C of the MR.
	Round-2	Information on measures taken in cases where WQT yielded result not meeting the standard reference have been added in MR under section C, "Quality of the treated water ". CL#4 is closed off.	

Rule	Assessment Question	Draft Findings/Comments CL#5	Developer Response
P&R 4.1.43 C	Are all comments from the CIGM reported?	PD shall provide supporting evidence on how the agreed grievances mechanisms is being implemented to support statement in MR Section G.1 that no grievances/inputs received within the monitoring period for borehole LAN015 Amunga SW, LAN072 Onger, LAN085 Ober and LAN089 Adagawaka.	PD has submitted a signed declaration from CO2balance UK Ltd that no grievances or inputs were received during the monitoring period for boreholes LAN015 Amunga SW, LAN072 Onger, LAN085 Ober and LAN089 Adagawaka. The document is titled "CO2balance declaration on legal disputes_grievances – Lango".
	Round-2	A signed declaration document "CO2balance declaration on legal disputes_grievances - Lango(1).pdf" has been submitted as evidence that no grievance or inputs were received during monitoring period 7 for boreholes in VPAs (GS5106, GS5186-94, GS5196-97, GS6349-51, GS7362-7366) and monitoring period 6 (GS5195). CL#5 is closed off.	

Rule	Assessment Question	Draft Findings/Comments CL#6	Developer Response
P&R 4.1.15	Does the responsible party own or have the right to claim emission	PD shall provide evidence on signed Carbon Transfer Form which is as per VPA-DD is the means to transfer the ownership	PD has provided scans of the original CTFs collected on paper for the 6 boreholes listed in the CL and submitted them within the

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Rule	Assessment Question	Draft Findings/Comments CL#6	Developer Response
	reductions or removal enhancements expressed in the GHG statement?	rights of and selling the emission reductions from the project for borehole LAN015 Amunga SW, LAN072 Onger, LAN085 Ober and LAN089 Adagawaka, LAN088 Abuabura and LAN163 Ayetayet 'A'.	PDF 'Requested_CTFs'. PD has also provided the updated CTFs collected via KoboCollect in July/August 2023 and submitted them within the spreadsheet 'Updated_CTFs'.
	Round-2	The scans of the original CTFs collected on paper for borehole LAN015 Amunga SW, LAN072 Onger, LAN085 Ober, LAN089 Adagawaka, LAN088 Abuabura and LAN163 Ayetayet 'A' has been provided within the PDF 'Requested_CTFs'. CL#6 is closed off.	

Rule	Assessment Question	Draft Findings/Comments CL#7	Developer Response
Meth	SDG 13 only, is leakage calculated correctly as per the PDD/VPA-DD?	PD is requested to provide clarification on how leakage is monitored as claimed in E.3 of the MR.	The potential sources of leakage listed in the methodology have been individually investigated and addressed in section E.3 of the MR. Leakage is monitored biennially in case there are any changes in the situation. PD also has close links with the district governments to be informed of any changes regarding leakage, and the in-country field team will also report any changes.
	Round-2	As part of section E.3 of MR, leakage assessment information has been provided. PD has provided additional clarification on the actions being taken to monitor changes in leakage. CL#7 is closed off.	

Rule	Assessment Question	Draft Findings/Comments CL#8	Developer Response
SGP <u>Reqs</u>	Are mitigation measures part of the monitoring plan reported on in a	PD is requested to provide clarification on claim made on MR section A.3 on statement GS Gender Equality Requirements &	The VPAs within this project also achieve Gender Responsive Certification under the Gold Standard "Gender Equality

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Rule	Assessment Question	Draft Findings/Comments CL#8	Developer Response
2.1.1 C	manner matching the PDD/VPA-DD and met correctly?	Guidelines document has been consulted for the project's gender equality annex as well as supporting file 'Gender Equality Annex 2022_MP7' in relevance to SDG impact claims from the projects.	Requirements and Guidelines". This statement was added into section A.3 of the MR in order to make it clear this is an additional certification alongside the TPDDTEC v1 methodology, therefore any claims are separate from the SDG claims under the methodology. The document 'Gender Equality Annex 2022_MP7' has been provided as the supporting evidence for Gender Responsive Certification.
	Round-2	The submitted 'Gender Equality Annex 2022_MP7.docx' has included information referencing GS5195 and the claimed values in accordance with the revised calculation. CL#8 is closed off.	

Rule	Assessment Question	Findings/Comments CL#9	Developer Response
MR Guide	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. Clearly state if there have been any changes from the project design that was envisaged at Design Certified	Section B.1: 1) Table-2 (section B.1) and Section A.1 include information of three borehole models i.e., Afridev, India Mark-II and U3 Modified. PD shall clarify which borehole models are installed in the project. Information sighted in the ER calculation file under the tab of 'Project Technology Days' is found that all of the boreholes are using India Mark II. 2) PD shall clarification for preventive maintenance program ie frequency, duration as well as evidence on the record of the activities including whether this has been incorporated into the calculation of project technology days. 3) PD shall provide confirmation statement if any of the borehole model is fully operational as per design to ensure the	1) In this project all handpumps are officially India Mark II. However, although the borehole body is entirely India Mark II, some internal components of the borehole differ and are similar to U3 modified. The most suitable type of internal components is usually determined by how deep the well is. Therefore, we have included the specification for both pump types in the MR. The specification for Afridev has been removed from Table 2 in Section B of the MR. 2) Some preventative maintenance checks are performed on the borehole during monthly monitoring follow-up visits. A pump test is completed in field by the project officer to ascertain if the borehole is working, and if it's operating with difficulty or not. Within 5-10 strokes the

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Rule	Assessment Question	Findings/Comments CL#9	Developer Response
	<p>PDD (for example technology types/specifications). If applicable, declare information on any post-Design Certification changes to the project activity in B.2.</p>	<p>water demand is catered to the intended end users. If any on-field verification test-run has been carried out to confirm the actual capacity of the borehole generating clean water has been carried out, evidence/record shall be provided. Under column J under "Repair log 2023" Tab in ER, is empty for LAN022, PD shall add in the necessary information</p>	<p>project officer is able to tell whether the borehole is functioning at full capacity or if there is an issue with either the upper components or underground. If a fault is noticed, the project officer reports it and organises a technician to perform a full assessment. The document "Installation & Maintenance Manual for the India Mark II Handpump" by the Rural Water Supply Network has been distributed to the field team to be referenced to for future monitoring follow-up visits. No additional downtime is factored into the calculation as a result of preventive maintenance checks.</p> <p>3) Repair Confirmation Forms demonstrating when the boreholes were not fully functional and in need of repair, and when they were repaired, were provided by PD in the original submission. This includes when the boreholes were not completely broken down but delivering water with a low yield. PD has also added columns to tabs "Repair Log 2022" and "Repair Log 2023" of the ERs demonstrating any reduction in water flow rate. This data is only available for repairs after September 2022 as before this time the RCFs were collected on paper rather than through digital surveys and this information was not collected.</p> <p>PD has infilled columns J and K for LAN022 in "Repair Log 2023" tab of the ERs. There is no data as the water point stopped delivering water.</p>
	<p>Round-2</p>	<p>1) The specification for Afridev has been removed from Table 2 in Section B of the MR.</p>	

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Rule	Assessment Question	Findings/Comments CL#9	Developer Response
		<p>2) A preventive monitoring program and maintenance check have been clarified by PD. Technical repairs would be organized by the project officer if there were any abnormal functions.</p> <p>3) columns J and K for LAN022 has been filled in "Repair Log 2023" tab of the ER "Lango Safe Water Project_ERs_MP7 (SWS caps applied) V2.xlsx" as there is no data of water point stopped.</p> <p>CL#9 is closed off.</p>	

Rule	Assessment Question	Findings/Comments CL#10	Developer Response
P&R 4.1.43 C	Are all comments from the CIGM reported?	<p>During site visit, based on interview with water guardian caretakers there is lack of knowledge on grievance books and the purpose of those books as grievance mechanism. The books are used instead as guest book.</p> <p>Another issue detected during site visit based on statement of water guardian of the it is sighted that quality of the water available from borehole Apuru borehole in Kole during heavy rainfall is visible with presence of red worm. Objective observer has added her observation that the borehole is located surrounded by swamps which could be the habitat of such worm. Project Proponent is requested to clarify whether such issue has been detected and action measure taken.</p>	<p>Following the site visit, the in-field project officers have been encouraged to continuously sensitise the communities on the use of the grievance books. This will be monitored during the follow-up visits to communities. However, since the introduction of the toll-free phone line last year, the communities are quickly adapting to the use of this system as they find it more convenient and quicker to pass on information. Phone access was agreed upon during the LSCs as an alternative form of contact.</p> <p>Regarding the water quality at Apuru borehole, it has been visited in the last 2 weeks by a project officer who discovered a large, open pool of water at the soak pit which could be the cause of the contaminations with red worms. The community has been advised to fix the soak pit and a project officer will be checking soon that this has been implemented. The issue of red worms is something that has been noted in older boreholes in the Lango</p>

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Rule	Assessment Question	Findings/Comments CL#10	Developer Response
			<p>region for short periods of the year. We work with the community and water quality analyst to consider any necessary intervention but are confident that for most of the year the water is safe. Apuru borehole passed the WQT for this monitoring period demonstrating it meets the requirement for safe water. PD requests a FAR is added to demonstrate the intervention plan and intention to resolve the issues in the next monitoring period, including hygiene campaigns and any direct intervention.</p>
	<p>Round-2</p>	<p>Project Proponent is requested to provide confirmation statement (under PD's response section) that during the period after water test was executed (Aug 2022) until end of monitoring period that is no issues detected/reported from the end users in concern with water safety from this borehole.</p> <p>FAR#1 is raised for PD to demonstrate that the implemented grievance mechanism (toll free phone line and grievance log book) is effective with issues identified on the field are identified in time and measures implemented accordingly. This specific point is closed with the FAR#1 raised.</p> <p>CL#10 remains open for point above</p>	<p>PD has provided evidence of follow-up visit undertaken in Q4 2022 after the water quality test was executed in the form of survey entry on KoboCollect and logbook photo. These confirm that no issues were reported regarding the worms impacting water safety from this borehole. PD can therefore confirm that during the period after the water test was executed, no issues were detected/reported from end users in concern with water safety from this borehole.</p>
	<p>Round-3</p>	<p>PD has provided a confirmation statement that during the period after the water test was executed, no issues were detected/reported from end users in concern with water safety from this borehole. A supporting evident document for follow up visit of Apuru LAN028 on 9/11/2022 "Apuu Follow-Up Visit entry - Q4 2022.xlsx" and logbook "Apuu logbook photo - Q4 2022.jpg" have been provided.</p> <p>CL#10 is closed off.</p>	

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Rule	Assessment Question	Findings/Comments CL#10	Developer Response

Rule	Assessment Question	Findings/Comments CL#11	Developer Response
MR Guide	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. Clearly state if there have been any changes from the project design that was envisaged at Design Certified PDD (for example technology types/specifications). If applicable, declare information on any post-	From the site visit, it is observed that there is discrepancy between the installed solar panel as claimed in the MR against the actual technology observed on the field. PP is requested to review the statement in the MR section B.1.	PD has amended Section B.1 of the MR for GS5195 to state that there are six solar panels fixed upon two stands (3 solar panels per stand).

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Rule	Assessment Question	Findings/Comments CL#11	Developer Response
	Design Certification changes to the project activity in B.2.		
	Round-2	GS5195, MR" GS5195 Lango Project_MR_MP6 V2 CLEAN.pdf" section B. has been updated with clear statement of the solar panel structure (6 solar panels fixed upon two stands (3 solar panels per stand)). CL#11 is closed off.	

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Appendix: 2 - FORWARD ACTION REQUESTS

FAR#1: PD to demonstrate that the implemented grievance mechanism (toll free phone line and grievance logbook) is effective with issues identified on the field are identified in time and measures implemented accordingly.

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