

Verification and certification report form for Gold Standard project activities

BASIC INFORMATION

Title and GS reference number of the project activity	Smokeless living in rural areas in India (GS 11988)
Scale of the project activity	☐ Large-scale⊠ Small-scale
Version number of the verification and certification report	03
Completion date of the verification and certification report	08/10/2024
Monitoring period number and duration of this monitoring period	02 11/08/2023 – 31/07/2024 (inclusive of both days)
Version number of the monitoring report to which this report applies	Version 03 dated 30/09/2024
Crediting period of the project activity corresponding to this monitoring period	10/06/2022 to 09/06/2027
Project representative(s)	Greneity Infocom Service Private Limited
Host Party	India
Applied methodologies and standardized baselines	AMS-I.E. Switch from non-renewable biomass for thermal applications by the user - Version 13
Mandatory sectoral scopes	01
Conditional sectoral scopes, if applicable	13
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	38,341 tCO₂e
Certified amount of GHG emission reductions or GHG removals for this monitoring period	35,354 tCO ₂ e
SDG Impacts:	 SDG 3: Good health and wellbeing SDG 7: Affordable and Clean Energy SDG 8: Decent work and Economic Growth SDG 13: Climate Action
Name and UNFCCC reference number of the VVB	E-0052: Carbon Check (India) Private Ltd.

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



Priya Suman, Compliance Officer

SECTION A. Executive summary

Carbon Check (India) Private Ltd. (CCIPL) is performing the second periodic verification of the GS project "Smokeless living in rural areas in India" (GS project id: GS 11988) for the period 11/08/2023 – 31/07/2024 (inclusive of both the dates). The project activity involves bundling of 10,339 household biogas plants in the state of Chhattisgarh, India, with capacities ranging from 2m³ to 3m³. All 10,339 plants are commissioned in between June, 2022 till November, 2022.

According to the PDD /B03/ & MR /01/, the project activity " Smokeless living in rural areas in India" aims to improve health and income of India by reducing time and money spent acquiring fuel for cooking and by providing local populations with improved access to clean water. The objective of this project activity is to replace the commonly used inefficient wood-fired mud stove technology with an efficient biogas-based cook stove that is both clean and sustainable.

This report summarises the findings of the verification of the project, performed on the basis of Gold standard for global goals (GS4GG), as well as criteria given to provide for consistent project operations, 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 that have occurred as a result of the project activity during a defined monitoring period.

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

The objective of this verification was to verify and certify emission reductions reported for the "Smokeless living in rural areas in India" in the host country "India" for the period 11/08/2023 - 31/07/2024 (including both the days).

The purpose of verification is to review the monitoring results and verify that the monitoring methodology was implemented according to the monitoring plan and monitoring data and used to confirm the reductions in anthropogenic emissions by sources, is sufficient, definitive and presented in a concise and transparent manner. CCIPL's objective is to perform a thorough, independent assessment of the registered project activity.

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

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered PDD
- To verify the implemented monitoring plan with the registered PDD and applied baseline and monitoring methodology.
- 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 are complete and accurate in order to be certified.

Verification process:

The verification comprises a review of the monitoring report /01/ over the monitoring period from 11/08/2023 - 31/07/2024 (inclusive) and based on the registered PDD as part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet, monitoring methodology, and all related evidence provided by project participants.

On-site interviews and inspections are also performed as part of the verification process.

Conclusion:

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

The project activity was correctly implemented according to the selected monitoring methodology, monitoring plan and the registered PDD /B04/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. The following table provides the resulted emission reduction from the project as verified through the document review and on-site interviews by the verification team.

Vintage	ER (tCO ₂ e)
11/08/2023-31/12/2023	14,184
01/01/2024-31/07/2024	21,169
Total for the monitoring period	35,353 tCO₂e

CCIPL as a Validation & verification body (VVB) is therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No	Role		Last name	First name	Affiliation	In	volve	ment	in
		Type of resource			(e.g. name of central or other office of VVB or outsourced entity)	Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader / Local expert	IR	Gedam	Pallavi	CCIPL	Х	Х	X	X
2.	Technical Expert/ Local Expert	IR	Agarwalla	Sanjay Kumar	CCIPL	Х	-	Х	Х

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

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

Pallavi Gedam: She is qualified as Team Leader in TA 1.2 and 3.1 and involved in various validations and verifications under CDM, VCS and Gold Standard (GS) projects. She has also attended Several Gold Standard DOE webinar trainings including training on GS4GG. She holds a Bachelor of Science degree in Chemistry and Master of Science degree in Environmental Science from University of Mumbai. She also a qualified Lead Auditor in ISO 14001:2015 Environmental Management System. She has been involved in number of GS validation and verification projects (as trainee Assessor) GS10898 PoA (GS 10899 to GS 10921) VPA 001 to VPA 023, GS7776 PoA (GS 10716 (VPA 01), GS 916 PoA , GS5417 (VPA 12) GS 5418 (VPA 13).

Sanjay Kumar Agarwalla: He is an appointed Team Leader and Technical Expert for technical area 1.1, 1.2, 2.1, 3.1, 4.1, 5.1, 5.2, 8.1, 9.1, 9.2 and 13.1. He is having more than 17 years of experience, which involves more than 10 years of industrial experience and almost seven years in climate change. He worked in various capacities at Kesoram Rayon, Durgapur Chemicals Limited, Gensol Consultants, TUV Rheinland India Pvt Ltd and LRQA. He is involved in more than 70 GHG audits including validation/verification/post registration changes. He also has GS Audit Experience and attended the Gold Standard webinar. The GS projects on which he has worked are 1309, 850, 6191, 411, 1353 and 939.

Indumathi C: She is appointed Team Leader /Technical Expert for technical area TA 1.1, 1.2,3.1,13.1 & 13.2 and Technical Reviewer. She has actively been involved in the validation and verification or internal technical review of more than 200 GHG offset projects including projects with SDG component She is having more than 13 years of experience, she is certified Energy Manager, Bureau of Energy Efficiency, Govt. of India. She carried out technical reviews for climate change mitigation projects under different carbon credit mechanisms (UNFCCC, Gold Standard and Voluntary Carbon Standard) for various sectors like renewable energy (solar, wind, hydro, biomass), energy efficiency (cook stoves) and waste to energy (biogas).

SECTION C. Means of verification

C.1. Desk/document review

The verification was performed primarily 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. Documents reviewed or referenced during the verification are listed in Appendix 3 below.

C.2. On-site inspection

Physical on-site inspection has been performed and the Team leader (who is also the technical and host country expert) has conducted the on-site inspection.

Furthermore, VVB has considered the Site Visit and Remote Audit Requirements and Procedures, version 2.0/B06/ 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 2.0/B06/.

No.	Interviewee		Date	Subject	Team	
NO.	Last	First name	Affiliation			member
	name	1 li St Hallie	Annation			member
/01/	Garg	Shivani	Greneity Infocom Services	17/08/2024- 18/08/2024	Project Design Organisation background Project Implementation plan Project start date and Project Location Project background information Baseline surveys, KPT, FNRB calculation Baseline Scenario Baseline Identification and Additionality Monitoring and reporting documentation Qualification and Training Quality Assurance- Management and operating system Social and Environmental Impacts Local Stakeholders meeting process Compliance with relevant laws Roles and responsibility Observations of established practices	Pallavi Gedam
/02/	Sharma	Kavita	Greneity Infocom Services	17/08/2024- 18/08/2024	Project Implementation and operation. Grievance handling. Maintenance	Pallavi Gedam
/03/	Sharma	Arjun	Greneity Infocom Services	17/08/2024- 18/08/2024	Project Implementation and operation.	Pallavi Gedam

C.3. Interviews

					Grievance handling. Maintenance	
/04/		Shri Jagdev (ID: GRN/BG/C HT/SUR/6 79)	Households	17/08/2024	Monitoring plan Monitoring Surveys	Pallavi Gedam
/05/		Gun Say (Id:GRN/B G/CHT/SU R/574)	Households	17/08/2024	Monitoring Surveys	Pallavi Gedam
/06/		Kirtanlal (GRN/BG/ CHT/DHA/ 8177)	Households	17/08/2024	Monitoring Surveys	Pallavi Gedam
/07/		Sunita paikra (Id: GRN/BG/C HT/DHA/3 11)	Households	17/08/2024	Monitoring Surveys	Pallavi Gedam
/08/	Kumar	Shri Nand (Id: GRN/BG/C HT/SUR/6 913)	Households	17/08/2024	Monitoring Surveys	Pallavi Gedam
/09/	Yadav	Laxman (Id: GRN/BG/C HT/SUR/4 300)	Households	17/08/2024	Monitoring Surveys	Pallavi Gedam
/10/		Moti Bai (Id: GRN/BG/C HT/DHA/3 023)	Households	18/08/2024	Monitoring Surveys	Pallavi Gedam
/11/		GOVIND RAM (Id: GRN/BG/C HT/DHA/3 138)	Households	18/08/2024	Monitoring Surveys	Pallavi Gedam
/12/	Singh	Komal (ld: GRN/BG/C HT/DHA/8 186)	Households	18/08/2024	Monitoring Surveys	Pallavi Gedam
/13/	Patel	Narender (Id: GRN/BG/C HT/SURA/ 5704)	Households	18/08/2024	Monitoring Surveys	Pallavi Gedam
/14/		Mahajan (Id: GRN/BG/C HT/SUR/9 044)	Households	18/08/2024	Monitoring Surveys	Pallavi Gedam

C.4. Sampling approach

As the target population is homogeneous, PP has proposed simple random sampling plan using 95/10 as confidence/precision. This is in line with the applied methodology /B01/. The sample size for each parameter is determined following guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB86, Annex 4) /B04/.

In line with paragraph 26 of the Sampling Standard, the verification team has applied acceptance sampling approach through on-site interviews on the monitoring survey as part of verification. The project participant had applied sampling approach to the monitoring survey /10/, conducted by the representatives of project participant. The verification team has chosen acceptance sampling in accordance with paragraph 28 of the sampling standard /B04/.

Applying paragraph 39 (c) of the sampling standard, version 09 /B04/, a sample size of 11 households was chosen (with no discrepant records). A sample size of 11 was determined, based on an AQL of 0.5% and UQL of 20%; producer risk and consumer risk of 10 % each in determining the VVB's sample size Acceptance number (c) thus determined for the sample is 0. However, VVB interviewed 11 samples from the monitoring survey done by project participants.

The information provided in the monitoring survey /10/, has been cross checked during the Onsite visit. As a part of acceptance sampling, the Verification team could confirm the monitoring survey data /10/ with no discrepant records. Thus, PP's set of records has been accepted in line with § 33 of the sampling standard, version 09 /B04/.

Parameter	Verification	Population (for	VVB's Sample
	approach	VVB's sample)	Size
Usage and Monitoring Survey	ASP	300	11

The details of the sample interviewed are listed in section C.3 (under the list of interviewed persons). No discrepancy was found in any of the 11 samples and thus c=0, i.e., no discrepant records were observed. Thus, PP's set of records has been accepted in line with §33 of the sampling standard (version 09.0) /B04/. For the impact parameters, questionnaire was prepared and was used during the survey by the PP. During the on-site interviews, the verification team cross-checked these sample documents, and no discrepancies were found in the impact parameters as well. Furthermore, the training & competency of the personnel, who conducted such test were checked. They were also interviewed to ensure that the process, method used, and their competency to confirm such standardised test were appropriately applied. The sampling technique to draw such samples were found adequate and the sample collectors were found competent to perform such task.

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

The VVB had raised Two (02) clarifications (CLs) and Three (03) corrective action requests (CARs) and satisfactorily closed.

SECTION D. Verification findings

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

Not applicable

Means of	Document Review, Interview
verification	
Findings Conclusion	CAR 01 was raised and resolved successfully. Please refer Appendix 4 below. Verification team confirms that the latest available version of the monitoring report template has been used and the MR is in compliance with the monitoring report form and related monitoring report template guide.
	As verified from on-site interview and third-party survey report /10/, the audit team confirm the project implementation, and operation complies with the project design document /B03/. The starting date of operation is 25/06/2022 (commissioning of first biogas plant) which is confirmed from the PDD /B03/ and validation report /B03/. The Project activity involves bundling of 10,339 plants installed in rural areas of Chhattisgarh installed between June, 2022 to November, 2022, constructed & maintained by Samagra Vikas Mission. The project boundary in the PDD /B03/ is in line with the actual project boundary, confirmed during the onsite visit.
	CCIPL confirms that the project biogas systems are operational through on-site visits and interviews with end users. Each biogas system has a unique identification number that was provided in the end user agreement and are correct according to the project database. Each biogas plant is also physically marked with its unique identification number. Along with the serial number, the biogas technology, end username, address, commissioning date etc. had also been noted which were found to be consistent on ground.
	It is noted that no changes have been observed or identified, that may impact the additionality. No addition of component nor extension of technology, no addition nor removal of project sites, no change of values of the actual operational parameter relevant to determination of emission reductions which are within the control of the PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology AMS-I.E version 13 /B01/. The operational status of all project bio-digesters, impact on identified SDGs from 11/08/2023 – 31/07/2024 has been taken into consideration.
	Verification team based on review of MR /01/ and provided evidence confirms that the households/end users relinquish their right of carbon credits. Verification has verified the end user agreement /05/ and commissioning certificates /20/ states the rights transfer in the lieu of free operation and maintenance of the plant. Furthermore, the bio digester plants implemented under the project is uniquely identified, thus avoiding

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

any potential double counting. PP has ensured each of the bio digesters have their UID on them, which will prevent any kind of double counting. Further, it has been observed that same districts with same size of bio digesters are not repeated in the different projects. This was confirmed during the validation and verification site visits undertaken by VVB. Further, PP has provided an undertaking that same project is not developed under any other carbon scheme /19/.
PP has a placed a grievance register in the nearby Panchayat office. During the onsite visit, verification team has checked the grievance register and found there are major grievances registered w.r.t. the project activity/12/.
Verification team has checked the information in the monitoring report /01/ and compared it against the PDD /B03/ and found to be consistent.
Verification team confirms that:
 a) The project activity is implemented as per PDD/B03/. b) The actual operation of the proposed CDM project activity is in line with the PDD /B03/. c) It has reviewed that the PDD /B03/ including the monitoring plan, the applied monitoring methodology and found that the final MR/01/ for this monitoring period is in line with all the above-mentioned documents.
Verification team of CCIPL based on review of records (grievance book) placed in the Local Panchayat office and on-site interviews confirms that a robust and effective grievance addressal mechanism is in place and however, no grievances were reported during the monitoring period/12/.
In summary, the monitoring period is reasonable, and the operation of the project activity is in accordance with the PDD /B03/.

D.3. Post-registration changes

D.3.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

Not applicable

D.3.2. Corrections

Not applicable

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

Not applicable

D.3.4. Inclusion of a monitoring plan

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

Not applicable

¹ 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).

D.3.6. Changes to the project design

Not applicable

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

Not applicable

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

Means of verification	Document Review, Interview
Findings	
Conclusion	The verification team has checked the actual monitoring plan against the monitoring plan in the PDD and monitoring methodology and applicable tools. Furthermore, the verification team has checked monitoring system by means of comparison with the information given in the monitoring plan and monitoring methodology. The monitoring plan is completely in accordance with the approved methodology /B01/ applied by the PDD/B03/.

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

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

Means of verification	Document Review, Interview
Findings	
Conclusion	Verification team confirms that the data and parameters fixed ex ante are in compliance with the PDD /B03/ and monitoring plan. Please refer to the Annex 1 for assessment of each parameter.

D.5.2. Data and parameters monitored

Means of verification	Document Review, Interview
Findings	CAR03 has been raised and resolved successfully. Please refer Appendix 4 below.
Conclusion	The verification team confirms that the data and parameters monitored are in compliance with the PDD /B04/ and the monitoring plan. It is confirmed that the verification team assessed the data / information flow from the point of monitoring to emission reduction calculation and found no gap in the same. Please refer to the Annex 4 for assessment of
	each parameter

D.5.3. Implementation of sampling plan

Means of	Document Review, Interview
verification	
Findings	
Conclusion	According to the standard for sampling and survey /B04/ and related guidelines /B04/ the sampling plan was determined at the time of project registration and applied during the monitoring. Sampling method: Simple random sampling method is adopted as the target population is homogeneous. The sample size is determined by the requirement to achieve 95/10 precision, in line with the methodology for bi-annual survey. Sampling approaches may follow the Guideline "Sampling and surveys for

CDM project activities and programme of activities" for calculation of sample size. Data to be collected: Number of project devices of type i and operating in year y. Monitoring surveys have been carried out for the parameters average annual consumption of woody biomass per household in the pre-project devices during the project activity, if it is found that pre-project devices were not completely displaced but continue to be used to some extent (BCPJ,HH,y), Number of households (biogas system) in the project activity in operational per year (N_{HH}), Number of biogas system operational under the project activity (SDG7) and Improvement in health and decrease in illness (SDG3). Implementation plan: Annual or biennial. Actual implementation: - Sampling method: The sample size included all households and was randomly sampled from a list of all the project biogas system in the project for each state separately. The target population is the 10,339 during the monitoring period. The sampling frame is homogenous within itself, with respect to service level, established exante baseline and user characteristics. PP has determined target sample number to be 300 as below: The total sample size has been derived using equation para 12 of appendix 1, EB 86 Annex 4, Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0. /B04/. The expected parameter values (mean, standard deviation and proportion) have been taken as per para 12 of appendix 1, EB 86 Annex 4 /B04/. Total Population (N) is 10,339 expected proportion is taken 60% and accordingly, sample size (n) come out to be 240. However, on a conservative note PP has opted to perform survey in 300 sample households.

As the target population is homogeneous, PP has proposed simple random sampling plan using 90/10 as confidence/precision. This is in line with the applied methodology /B01/. The sample size for each parameter is determined following guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB86, Annex 4) /B04/.

In line with paragraph 26 of the Sampling Standard version 09, the validation team has applied acceptance sampling approach through Onsite interviews on the monitoring survey as part of verification. The project participant had applied sampling approach to determine the monitoring survey /10/ was conducted by the representatives of Project participant. The validation team has chosen acceptance sampling in accordance with paragraph 28 of the sampling standard /B04/.

Applying paragraph 39 (c) of the sampling standard, version 09 /B07/, a sample size of 11 households was chosen (with no discrepant records). A sample size of 11 was determined, based on an AQL of 0.5% and UQL of 20%; producer risk and consumer risk of 10 % each in determining the VVB's sample size Acceptance number (c) thus determined for the sample is 0. However, VVB interviewed 11 sample from the monitoring survey done by project participants.

Parameter	Population (for VVB'ssample)	VVB's SampleSize	
ВС РЈ,НН,у	300	11	
Nнн			

The information provided in the monitoring survey /10/, has been cross checked during the Onsite visit. As a part of acceptance sampling, the

verification team could confirm the monitoring survey data /10/ with no
discrepant records. Thus, PP's set of records has been accepted in line
with § 33 of the sampling standard, version 09 /B04/.

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

Means of verification	Document Review, Interview
Findings	-
Conclusion	Not appliable, since there is no monitoring equipment which require calibration as per the monitoring plan. The equipment's used for the monitoring consists of reviewing the documents and on-site interviews.

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

D.7.1. Calculation of baseline GHG emissions or estimation of baseline situation of each SDG Impact

Means of verification	Document Review, Interview			
Findings				
Conclusion	As per the PDD /B03/ and the Methodology applied /B01/, Baseline emission reductions are calculated as per equation 1 of the methodology as below:			
	BE _y = B _y * f _{NRB, y} * NCV _{biomass} * EF _{projected_fossilfuel}			
	Where, BE_y = Baseline Emissions during the year y in tCO2e B_y = Quantity of woody biomass that is substituted or displaced in tonnes $f_{NRB, y}$ = Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass, using survey methods or government data or approved default country specific fraction of non-renewable woody biomass (fNRB) values available on the CDM website. In this case fNRB, y is fixed ex-ante to be Chhattisgarh verified from registered PDD and validation report /B03/.			
	NCV _{biomass} = Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)			
	EF _{projected_fossilfuel} = Emission factor for the substitution of non-renewable woody biomass by similar consumers. Use a value of 64.4 tCO ₂ /TJ.			
	By' By is determined by using option (a) paragraph 29 of the methodology as follows:			
	"Calculated as the product of the number of households multiplied by the estimate of average annual consumption of woody biomass per household that is displaced by the project activity (tonnes/ household/year)";			
	$B_{y} = N_{HH} \times (BC_{BL,HH,y} - BC_{PJ,HH,y})$			
	Where,			
	N_{HH} = Number of households in the project activity, number			
	BC_{BLy} = Average annual consumption of woody biomass per household before the start of the project activity, tonnes/household/year			
	$BC_{PJ,HH,y}$ = If it is found that pre-project devices were not completely displaced but continue to be used to some extent, average annual consumption of woody			

biomass per household in the pre-project devices during the project activity, tonnes/household/year
$BC_{BL,HH,y}$ = for the project have been considered based on baseline survey (fixed ex-ante) and publicly available reports as discussed in above section.
The average annual consumption of woody biomass is estimated by monitoring survey methods and found to be 0.10 tonne/household/year in case of Chhattisgarh, as per the MR /01/, /02/. The same is confirmed from the monitoring survey results and found appropriate/09/. Accordingly, the baseline emissions for project activity for the monitoring period from 11/08/2023 – 31/07/2024 is calculated to be 37,214 tCO ₂ e.
SDG-3: Improvement in health and decrease in illness
The Number of households having reduced indoor pollution in the baseline scenario, the value is taken as 0.
SDG-7: Ensure access to affordable, reliable, sustainable and modern energy for all
The Number of households bio digesters are installed & operational in the baseline scenario, the value is taken as 0.
SDG-8: Promote inclusive and sustainable economic growth, employment and decent work for all
The Number of jobs created, and Number of people trained in the baseline scenario, the value is taken as 0.
Detailed assessment of all the parameters used to calculate emission reductions is provided under section Annex 1
The calculations presented in the Monitoring Report /01/ and the corresponding ER sheet /02/ were found appropriate and complying with provisions prescribed in the registered monitoring plan/B03/ of the registered PDD/B03/ and applied methodology/B01/.

D.7.2. Calculation of project GHG emissions or estimation of project situation of each SDG Impact

impaor	
Means of verification	Document Review, Interview
Findings	
Conclusion	SDG-13: Climate Action The project emissions are calculated as per the applied methodology/B01/. The equations used to calculate the project emissions are reflected in section D.7.1 of this report. The total emission reductions in the current monitoring period are 35,353 tCO ₂ e.
	SDG-3: Ensure healthy lives and promote well-being for all at all ages The SDG impacts achieved for the project were 10,339 biogas units with 100% operational rate of respondents confirmed improvement in their health after the installation of the project activity. SDG-7: Ensure access to affordable, reliable, sustainable and modern energy for all The SDG impacts achieved for the project were the distribution of 10,339 biogas units out of which PP has applied the sampling and randomly

choose 300 samples, and found all are operations through monitoring surveys.
SDG-8: Promote inclusive and sustainable economic growth, employment and decent work for all The SDG impacts achieved for the project was 10 job opportunities and people were hired under this project.
The SDG impacts achieved for the project was 2 trainings are provided every year to the people involved in this project activity
The information provided in the monitoring report /01/ has been cross- checked with the documents provided under Appendix 3 of this verification report. Complete monitoring data is also presented in the corresponding ER calculations sheet /02/ of final Monitoring Report /01/. Verification team confirms that all SDGs claimed are used correctly presented, all results are verifiable and transparent, all assumptions are described and based on verifiable evidence and calculations are done in accordance with the pre- defined formulae from PDD/B03/

D.7.3.	Calculation	of leakage	GHG emissions
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Means of	Document Review, Interview		
verification			
Findings	-		
Conclusion	According to the registered PDD /B03/, a leakage assessment is only required every two years; however, such a leakage and thus assessment is required for this monitoring period.		
	Project Leakage Assessment Leakage Emissions (LEy): Leakage emissions (related to the non-renewable woody biomass saved by the project activity shall be assessed based on ex post surveys of users and the areas from which this woody biomass is sourced (using 90/30 precision for a selection of samples). The following potential source of leakage shall be considered: The use/diversion of non-renewable woody biomass saved under the project activity by non-project households/users that previously used renewable energy sources. If this leakage assessment quantifies an increase in the use of non-renewable woody biomass used by the non-project households/users that is attributable to the project activity, then By is adjusted to account for the quantified leakage. Alternatively, By is multiplied by a net to gross adjustment factor of 0.95 to account for leakages, in which case surveys are not required.		
	PP has opted default option, and By is adjusted with adjustment factor of 0.95 to account leakage.		
	Therefore, the net benefit is = $37,214^* 0.95 = 35,353 \text{ tCO}_2\text{e}$		
	As per the demonstration in the registered PDD /B03/ and MR /01/, the adjustment factor of 0.95 has been accounted for leakage for the monitoring period.		

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

removals by s					
Means of	Document Review, Interview				
verification					
Findings	 The survey if is a time to a	 The verification team confirms that all parameters are used correctly in the			
Conclusion	The verification team confirms that all parameters are used correctly in the calculations, all results are verifiable and transparent, all assumptions are described and based on verifiable evidence and calculations are done in accordance with the pre-defined formulae from PDD/B03/. The total number of ERs achieved during the monitoring period is 35,353 tCO2e. The details of the summary of the emission reductions achieved during the monitoring period, has been provided in the table below:				
	Vintage		ER (tC	(O2e)	
	11/08/2023-31/1	2/2023	14,184		
	01/01/2024-31/0		21,169		
	Total for the moni		,	tCO ₂ e	
		toring period	00,000	10026	
	SDG SDG Impac	*	Baseline	Project	Net
	SUG SUG Impac	al (
			estimate	estimate	benefit
	13 Climate Action (mandatory)	Emission reductions	37,214 tCO2e	1861(leakage) tCO2e	35,353tCO2e
	7 Affordable and Clean Energy	Access to affordable and clean energy services	Firewood based convention al	10,339	10,339
	8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	No activity	10 employments	10 employments
	8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	No activity	2 trainings	2 trainings
	3 Good health and well being	Improvement in health and decrease in illness	Illness due to smoke	10,339	10,339
	The calculations pr and corresponding complying with the of PDD/B03/ and a The verification tea and records that acceptable.	ER calculation provisions pre- pplied methodo m confirms tha	n sheet /02 scribed in t blogy/B01/. t an audit ti	/ were found a he registered rail that contai	appropriate and monitoring plan ns the evidence

D.7.5. Comparison of actual SDG Impacts with estimates in registered PDD

Means of	Document Review, Interview
verification	
Findings	

Conclusion	period as		sion reductions for the monitoring 2 tCO ₂ e and the actual emission period is 35,353 tCO ₂ e.
	SDG	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
	13	37,102 tCO ₂ e	35,353 tCO₂e
	3	Improvement in health and decrease in illness for 100% users	10,339 biogas plant users now have improved health conditions
	7	100% users were using firewood which is not a Clean Source of energy	10,339 users are accessed to clean energy source.
	8	10 permanent employments and 2 trainings in a year	10 permanent employments, and 2 trainings in a year
		•	rovided in the spreadsheet /02/ ne with the registered PDD /B03/.

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

Means of	Document Review, Interview
verification	
Findings	
Conclusion	The ex-ante annual estimated emission reduction as per registered PDD is $37,102 \text{ tCO}_2\text{e}$; and the ex-ante estimate value of the emission reductions for the monitoring period as per the registered PDD /B03/ is $37,102 \text{ tCO}_2\text{e}$ and the actual emission reductions achieved for the monitoring period is $35,353 \text{ tCO}_2\text{e}$. For SDG 13, since actual emission reduction is lower than the estimated value and hence it is acceptable to the verification team. The monitoring report /01/ provides reason for decrease in the actual emission reduction and the same was confirmed by the verification team by interviewing the representatives of PP and by reviewing the actual implementation status of the project.
	 For other SDG parameters, PP has provided justification in the Monitoring report and assessment of the same is provided below: SDG 3: The actual value is same as the estimated value, which is deemed appropriate and thus acceptable to the VVB. SDG 7: The actual value is same as the estimated value, which is deemed appropriate and thus acceptable to the VVB. SDG 8: The actual value is higher than the estimated value, same as the estimated value, which is deemed appropriate and thus acceptable to the VVB. SDG 8: The actual value is higher than the estimated value, same as the estimated value, which is deemed appropriate and thus acceptable to the VVB. SDG 13: The actual value is lower than the estimated value, which is deemed appropriate and thus acceptable to the VVB.

SECTION E. Internal quality control

>>

The verification report shall pass a technical review before being submitted to the Gold Standard. The technical review is performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for validation and verification.

SECTION F. Verification/Certification opinion

>>

Carbon Check (India) Private Ltd. (CCIPL) has performed the 2nd periodic verification of the registered GS Project Activity "Smokeless living in rural areas in India (GS 11988)".

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

Verification methodology and process

The Verification team confirms the contractual relationship signed /14/ between the VVB, Carbon Check (India) Private Ltd. and the Project Participant on 02/08/2024. The team assigned to the verification meets the CCIPL'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 CCIPL's procedures and requirements.

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

- Reviewing the PDD /B03/, including the monitoring plan and the corresponding validation report /B03/;
- 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 AMS-I.E. Switch from non-renewable biomass for thermal applications by the user Version 13 /B01/;
- On-site inspection (17/08/2024- 19/08/2024)
- Resolution of CARs and CLs raised during verification
- Issuance of Verification Report

The project activity was correctly implemented according to selected monitoring methodology, monitoring plan and the registered PDD. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the document review and physical on-site interviews, the verification team confirms that the project activity has resulted in the 35,353 tCO₂e emission reductions during the reported monitoring period.

This statement covers verification period from 11/08/2023 – 31/07/2024 (inclusive).

The VVB has raised 02 clarifications and 03 corrective action requests, all of which are satisfactorily closed.

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 PDD are fairly stated.

The VVB, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to 35,353 tCO₂e equivalent and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records.

Vintage	ER (tCO ₂ e)
11/08/2023-31/12/2023	14,184

01/01/2024- 31/07/2024	21,169
Total for the monitoring period	35,353 tCO ₂ e

Appendix 1. Abbreviations

Abbreviations	Full texts	
BE	Baseline Emissions	
СА	Corrective Action/ Clarification Action	
CER	Certified Emission Reduction	
CAR	Corrective Action Request	
CCIPL	Carbon Check (India) Private Ltd.	
CL	Clarification Request	
CO ₂	Carbon Dioxide	
CO _{2e}	Carbon Dioxide Equivalent	
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	
GWP	Global Warming Potential	
IPCC	Intergovernmental Panel on Climate Change	
LE	Leakage Emissions	
MP	Monitoring Period	
MR	Monitoring Report	
OSV	On Site Visit	
PE	Project Emissions	
PP(s)	Project Participant(s)	
QC/QA	Quality Control/ Quality Assurance	
ТА	Technical Area	
TR	Technical Review	
UNFCCC	United Nations Framework Convention on Climate Change	
VVS	Validation and Verification Standard	
VVB	Validation & verification body	

Appendix 2. Competence of team members and technical reviewers

			Carl — CHE	ооп ск—	
	Car	bon Che	ck (Indi	a) Privo	ate Limited
		Certific	ate of Co	mpetenc	y
		Ms.	Pallavi G	edam	
has bee		'L's internal qualifica 4065:2020, ISO/IEC			h the requirements of CDM AS (V7. e GHG programs:
		for the follo	owing functions an	d requirements:	
\boxtimes	Validator	⊠ Verifier	🛛 Tea	ım Leader	🛛 Technical Expert
	Technical Reviewer	Health Expert	t 🗌 Ge	nder Expert	Plastic Waste Expert
CCB Expert 🛛 Legal Expert		🗆 Fin	ancial Expert	Environmental, Health and Safety financial matters	
	SDG+	🛛 Social no-har		rironment rm(E+)	
\boxtimes	Local Expert for India				
		in th	e following Techni	cal Areas:	
	🗆 TA 1.1	🛛 TA 1.2	🗆 TA 2.1	🖂 TA 3.	.1 🗆 TA 4.1
	🗆 TA 4. n	🗆 TA 5.1	🗌 TA 5.2	🗆 TA 7.	.1 🗆 TA 8.1
	🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🗆 TA 13	3.1 🗌 TA 13.2
	🗆 TA 14.1	🗆 TA 15.1	🗆 TA 16.1		
	Issue D	ate			Expiry Date
	5 th Decemb	er 2023		31	st December 2024
	Buya Si	ണവന			Songers Aternalla
		riya Suman		M	1r. Sanjay Kumar Agarwalla
	Compli	ance Officer			Technical Director
-			on History of the		
-	Revision date 2022 ¹	8		Summary of char Annual revisio	-
-				Annual revisio	
-	Dec 2023		Change in the te		sion in TA and function



Carbon Check (India) Private Limited

Certificate of Competency

Mr. Sanjay Kumar Agarwalla

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

for the following functions and requirements:

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

in the following Technical Areas:

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

Issue Date

Expiry Date

05th December 2023

.....

31st December 2024

Buya Suman

Ms. Priya Suman Compliance Officer

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

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

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



Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

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

for the following functions and requirements:

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

Local Expert for India and Sri Lanka

in the following Technical Areas:

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

Issue Date

5th December 2023

Buya Suman

Ms. Priya Suman Compliance Officer Expiry Date

31st December 2024

Songas Ajenialla

Mr. Sanjay Kumar Agarwalla Technical Director

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

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

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

Appendix 3. Documents reviewed or referenced

S. No.	Document	
	a) Monitoring Report (Version 01 dated 01/08/2024)	
/01/	b) Monitoring Report (Version 02 dated 16/09/2024)	
,	c) Monitoring report (version 03 dated 30/09/2024)	
	Emission reductions sheet (Corresponding to /a/)	
/02/	 Emission reductions sheet (Corresponding to /b/) 	
/03/	Distribution records including sample sales receipt	
/04/	Evidence for the biodigester specifications distributed under the project	
/05/	Evidence of Carbon Credits waiver	
/06/	Evidence for the random sample generator for the parameters opted for sampling/survey.	
/07/	Initial Sample size calculation sheet along with actual samples conducted and the reliability assessment.	
/08/	Evidence for unique identification number under the project	
/09/	Records of monitoring Survey of the project and Biogas user survey	
/10/	Third party survey report	
/11/	Employment records: a) Permanent Employment records	
,,	b) Contractual Employment records	
/12/	The grievance register applicable for the monitoring period	
/13/	Monitoring log books from 11/08/2023 – 31/07/2024	
/14/	Verification contract between VVB & PP	
/15/	Biogas Service Records from 11/08/2023 – 31/07/2024	
/16/	Training records: a) Summer	
	b) Winter	
/17/	Salary slips: a) Permanent Employee b) Contractual Employee	
/18/	b) Contractual Employee Monitoring Survey Forms	
/19/	Contract between PP and third party for monitoring survey	
/20/	Monitoring survey Questionnaire template	

/21/	Sampling Calculator for sample size, and precision level
/22/	Monitoring report for Monitoring period 01 version 07 dated 26/12/2023

Background Documents

Ref no.	Reference Document
/B01/	AMS-I.E. Switch from non-renewable biomass for thermal applications by the user - Version 13
/B02/	 Gold Standard Principles and Requirements version 1.2, dated 24/10/2019 Gold Standard Programme of Activity Requirements version 1.2, dated 24/10/2019 GS Validation & Verification Body Requirements version 2.0, dated 14/01/2021 Community Services Activity Requirements (version 1.1) under GS4GG https://globalgoals.goldstandard.org/200-gs4gg-community-services-activity-requirements/
/B03/	PDD, Version 6.0 dated 06/12/2023 and corresponding Validation Report
/B04/	Standards a) CDM Sampling Standard, version 09.0 b) Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0. c) Gold standard validation and verification standard, version 01
/B05/	IPCC 2006, volume 2, chapter 1
/B06/	Site Visit and Remote Audit Requirements and Procedures, version 1.0 dated 17/11/2021
/B07/	 Validation and Verification Standard for PoAs, version 03.0 Project Standard for PoAs, version 03.0 Project Cycle Procedure for PoAs, version 03.0
/B08/	Validation report for the design certification and verification report for 1st Monitoring period (performance certification)03 dated 18/09/2022

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

Table 1.		FARs from	FARs from this verification		
	FAR ID	XX	Section no.	Date:	
	Descripti	on of CAR			
	NA				
	PP response Date:				
	Documer	ntation provi	ded by the CME		
	DOE ass	essment		Date:	

Table 2.CARs from this verification

CAR ID	01	Section no.	MR	Date: 09/09/2024
Descripti	on of CL			
		elow observation n	eed to be fulfilled a	as per the Template filling guideline
1) PP to t	ry to maintain th	e same font and fo	ont size throughou	t the MR.
2) All Date	es must be in the	e following format:	DD/MM/YYYY	
3) In KPI	Table of the MR	monitoring period	d number is written	n to be 1, however this period is the
	nitoring period.	, monitoring poriot		
	articipant respo	neo		Date: 16/09/2024
			vien of MR (versio	
			sion of MR (versio	
		s has been chang	ed according to gr	ven pattern in revised version of
MF				
			prrected to 2 in nev	v version of MR.
Documen	itation provided	d by project parti	cipant	
				Date: 20/09/2024
		ised MR, KPI tabl	e has been made	
PP has su	ubmitted the rev			
PP has su	ubmitted the rev			inline with the MR filling guideline
this has b	ubmitted the rev een checked and	d deemed to be ap	opropriate. Hence	inline with the MR filling guideline CAR 01 is closed.
PP has su	ubmitted the rev	d deemed to be ap		inline with the MR filling guideline
PP has su his has be CAR ID	ubmitted the rev een checked and	d deemed to be ap	opropriate. Hence	inline with the MR filling guideline CAR 01 is closed.
PP has su his has be CAR ID Descriptio	ubmitted the rev een checked and 02 on of CL	d deemed to be ap Section no.	opropriate. Hence	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024
PP has su this has be CAR ID Descriptio	ubmitted the rev een checked and 02 on of CL	d deemed to be ap Section no.	opropriate. Hence	inline with the MR filling guideline CAR 01 is closed.
PP has su his has be CAR ID Description Under sect Project pa	ubmitted the rev een checked and 02 on of CL ction D.3 of the N articipant respo	d deemed to be ap Section no. MR , PP needs to a	MR add the Value obta	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024
PP has su his has be CAR ID Description Under sect Project pa	ubmitted the rev een checked and 02 on of CL ction D.3 of the N articipant respo	d deemed to be ap Section no. MR , PP needs to a	MR add the Value obta	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024 ained last monitoring period.
PP has su his has be CAR ID Description Under sector Project pa Section D	ubmitted the rev een checked and 02 on of CL ction D.3 of the N articipant respo	d deemed to be ap Section no. MR , PP needs to a	MR MR add the Value obta	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024 ained last monitoring period.
PP has su his has be CAR ID Description Jnder sector Project pa Section D Documen	ubmitted the rev een checked and 02 on of CL ction D.3 of the N articipant respondent .3 of MR has be intation provided	d deemed to be ap Section no. MR , PP needs to a onse en revised in versi	MR MR add the Value obta	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024 ained last monitoring period. Date: 16/09/2024
PP has su his has be CAR ID Description Jnder sector Project pa Section D Document VVB assector	ubmitted the rev een checked and 02 on of CL ction D.3 of the M articipant respond .3 of MR has be atation provided	d deemed to be ap Section no. MR , PP needs to a onse en revised in versi d by project parti	MR MR add the Value obta ion no 2 of MR. cipant	inline with the MR filling guideline CAR 01 is closed. Date: 09/09/2024 ained last monitoring period. Date: 16/09/2024 Date: 20/09/2024
PP has su his has be CAR ID Description Jnder sector Project pa Section D Documen VVB assector PP has su	Ubmitted the rev een checked and 02 on of CL otion D.3 of the M articipant respondent .3 of MR has be outation provided essment Ubmitted the revi	d deemed to be ap Section no. MR , PP needs to a onse en revised in versi d by project parti sed MR, section D	MR MR add the Value obta ion no 2 of MR. cipant	inline with the MR filling guidelin CAR 01 is closed. Date: 09/09/2024 ained last monitoring period. Date: 16/09/2024

appropriate to the verification team. Hence CAR 02 is closed.

CAR ID	03	Section	MR	Date: 09/09/2024		
		no.				
Descriptio	Description of CL					
In section	D.1 of the MR, PP ha	as considered	the FNRB value to be 85%	, however during the last		
MP the va	lue mention to be 80	%.				
Also PP is requested to check the Emission reduction calculation considering the correct value of the fNRB.						
Project pa	articipant response			Date: 16/09/2024		
Section D.	1 is corrected now in	new version o	of MR.			
Documentation provided by project participant						
VVB assessment Date: 20/09/2024						
PP has su	PP has submitted the revised MR, section D.1 has now been rectified as per the registered PDD.					
This has been checked and deemed to be appropriate to the verification team. Hence CAR 03 is						
closed.						

Table 2. CLs from this verification

CL ID	01	Section no.	MR	Date: 09/09/2024	
Descript	Description of CL				
PP in En	nission reducti)339 ICS distri		•	schedule which represent every is monitoring period. PP to clarify	
Project p	participant res	sponse		Date: 16/09/2024	
period and no further bio gas plants been added to the project in current monitoring period. In MR it states that 10,339 are being working in good condition for all those months covered in 2nd Monitoring period. Documentation provided by project participant					
VVB ass	essment			Date: 20/09/2024	
PP has s	ubmitted the M	IR and the justification	on provided by the F	PP is deemed to acceptable to the	
verification team, and the same has been observed during the on-site visit conducted by VVB. Hence CL 01 is closed.					
CL ID	02	Section	no. G.1 in MR	Date: 09/09/2024	
Description of CL					
P is reque	sted to provide	e the following docun	nents;		
2. Sam 3. Evid 4. Griv 5. Mon	iance register itoring survey	om sample selection and compliant record	ds		

- 6. Evidence of Carbon Credits waiver
- Biogas construction schedule
 SDG tool

- 9. Training records
- 10. Employment records
- 11. Sustaincert's review report for the 1st performance certification

PP response

Date: 16/09/2024

All documents have been provided in zip folder. **Documentation provided by PP**

VVB assessment

Date: 20/09/2024

PP has submitted the above requested documents; this has been checked by the verification team. Hence CL 02 is closed.

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

Relevant SDG Indicator	SDG 13, Climate action
Parameter	N _{HH}
Data unit	Number
Default values used	10,339
Purpose of data	Estimation of Baseline
Source of verification of the source	Project Proponent's project database

Relevant SDG Indicator	SDG 13, Climate action
Parameter	BC _{BL,HH,y}
Data unit	tonnes/household/year
Default values used	4.7
Purpose of data	Estimation of Baseline
Source of verification of the source	Baseline survey

Relevant SDG Indicator	SDG 13, Climate action
Parameter	f _{NRB,y}
Data unit	Percentage
Default values used	80%
Purpose of data	Estimation of Baseline
Source of verification of the source	Calculated

Relevant SDG Indicator	SDG 13, Climate action
Parameter	NCV _{biomass}
Data unit	TJ/tonne
Default values used	0.0156
Purpose of data	Calculation of Baseline emissions
Source of verification of the source	IPCC default value for wood/B05/

Relevant SDG Indicator	SDG 13, Climate action
Parameter	$EF_{projected_fossilfuel}$
Data unit	tCO2/TJ
Default values used	64.4
Purpose of data	Estimation of Baseline
Source of verification of the source	Default value from the methodology, AMS-I.E

Annex 2: Assessment of data and parameters monitored

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13
	Indicator 13.2.1 "Amount of CO2e emissions reduced by
	the project per year"
Data / Parameter:	Average annual consumption of woody biomass per
(as in monitoring plan of PDD):	household in the pre-project devices during the project
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	activity, if it is found that pre-project devices were not

	completely displaced but continue to be used to some
	extent. (BC _{PJ,HH,y})
Unit	tonnes/household/year
Measuring frequency/Time Interval:	At least once in every two years.
Reported value	0.10
Verified Source of Data	Value obtained from monitoring survey of samples /09/ /10/
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of	
registered PDD:	Man the data was successful and a successful at the second s
Does the data management (from data generation to emission reduction	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all
calculation) ensure correct transfer of	necessary QA/QC processes are in place
data and reporting of emission reductions	
and are necessary QA/QC processes in	
place?	
In case only partial data are available	NA
because activity levels or non-activity	
parameters have not been monitored in	
accordance with the registered monitoring plan, has the most	
monitoring plan, has the most conservative assumption theoretically	
possible been applied or has a request for	
deviation been approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 13 Indicator 13.2.1 "Amount of CO2e emissions reduced by the project per year"
Data / Parameter:	Number of households (biogas system) in the project
(as in monitoring plan of PDD):	activity in operational per year (N _{HH})
Unit	Number
Measuring frequency/Time Interval:	At least once in every two years.
Reported value	10,339
Verified Source of Data	Value obtained from Project Proponent's project database.
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of	1 5

data and reporting of emission reductions and are necessary QA/QC processes in place?	
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 08
Data / Parameter:	Unemployment rate, by sex, age and persons with
(as in monitoring plan of PDD):	disabilities
Unit	Number
Measuring frequency/Time Interval:	Annual
Reported value	2
Verified Source of Data	Value obtained from records of training programme /16/
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 08
Data / Parameter:	Quantitative employment and income generation (8.5.2)
(as in monitoring plan of PDD):	
Unit	Number
Measuring frequency/Time Interval:	Annual
Reported value	10

Manified Occurs of Data	
Verified Source of Data	Value obtained from employment records /11/
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of	
registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of
generation to emission reduction	data and reporting of emission reductions and all
calculation) ensure correct transfer of	necessary QA/QC processes are in place
data and reporting of emission reductions	
and are necessary QA/QC processes in	
place?	
In case only partial data are available	NA
because activity levels or non-activity	
parameters have not been monitored in	
accordance with the registered	
monitoring plan, has the most	
conservative assumption theoretically	
possible been applied or has a request for	
deviation been approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 7
Data / Parameter:	Access to affordable and clean energy services (7.1.2)
(as in monitoring plan of PDD):	
Unit	Number
Measuring frequency/Time Interval:	At least once in two years
Reported value	10,339
Verified Source of Data	Value obtained from Biogas user survey /09/
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and	
calibration as per the requirements of registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of
generation to emission reduction	data and reporting of emission reductions and all
calculation) ensure correct transfer of	necessary QA/QC processes are in place
data and reporting of emission reductions	
and are necessary QA/QC processes in	
place? In case only partial data are available	NA
because activity levels or non-activity	
parameters have not been monitored in	
accordance with the registered	
monitoring plan, has the most	
conservative assumption theoretically	

possible been applied or has a request for	
deviation been approved?	

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 3
Data / Parameter:	Improvement in health and decrease in illness (3.9.1)
(as in monitoring plan of PDD):	
Unit	Number
Measuring frequency/Time Interval:	At least once in two years
Reported value	100% satisfaction 10,339 plant users
Verified Source of Data	Value obtained from Biogas user survey /09/.
Is measuring and reporting frequency	Yes
in accordance with the monitoring	
plan and monitoring methodology?	
(Yes / No)	
Assessment of details of monitoring	NA
equipment, its specification and calibration as per the requirements of	
registered PDD:	
Does the data management (from data	Yes, the data management ensures correct transfer of
generation to emission reduction	data and reporting of emission reductions and all
calculation) ensure correct transfer of	necessary QA/QC processes are in place
data and reporting of emission reductions	
and are necessary QA/QC processes in place?	
In case only partial data are available	NA
because activity levels or non-activity	
parameters have not been monitored in	
accordance with the registered	
monitoring plan, has the most	
conservative assumption theoretically possible been applied or has a request for	
deviation been approved?	
deviation been approved:	