

# Verification and certification report form for GS project activities

(Version 04.0)

BASIC	INFORMATION				
Title and GS4GG reference number of the project activity	Title: Domestic Biogas Project for rural households in India				
	GS reference no.: GS 6275				
Scale of the project activity	Large-scale				
	Small-scale				
	Micro-scale				
Version number of the verification and certification report	1.2				
Completion date of the verification and certification report	11/01/2024				
Monitoring period number and duration of this	6 <sup>th</sup> monitoring period.				
monitoring period	Duration: 07/02/2022 to 06/02/2023 (including both days)				
Version number of the monitoring report to					
which this report applies	3.2 of 02/01/2024				
Crediting period of the project activity corresponding to this monitoring period	07/02/2022 to 06/02/2027				
Project participants	Value Network Ventures Advisory Services Pte. Ltd.				
Host Party	India				
Applied methodologies and standardized baselines	AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user -Version 12.0				
Mandatory sectoral scopes	1 (TA 1.1)				
Conditional sectoral scopes, if applicable	N/A				
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	41,877 tCO <sub>2</sub> e				
Certified amount of GHG emission reductions or GHG removals for this monitoring period	17,051 tCO <sub>2</sub> e				
Name and VVB reference number of the VVB	Carbon Check (India) Private Limited				
Name, position and signature of the approver of the verification and certification report	Buya Syman				
	Priya Suman, Compliance Officer				

#### **SECTION A. Executive summary**

>>

Carbon Check (India) Private Ltd. (CCIPL) has performed the sixth periodic verification of the GS project "Domestic Biogas Project for rural households in India" (GS project id: GS 6275) for the period 07/02/2022 to06/02/2023 (inclusive of both the dates). The project activity involves installation and use of household bio- digester units of various sized (2m<sup>3</sup>, 3m<sup>3</sup>, 4m<sup>3</sup> and 6m<sup>3</sup>) which replaces non-renewable firewood used in the absence of bio-digesters. The bio-digesters are based on cattle dung and produced biogas is used for cooking purposes. The project involves 12,695 bio-gas units installed in rural areas of Madhya Pradesh, Bihar and Jharkhand commissioned from 07/02/2017 onwards.

#### Verification methodology and process

The Verification team confirms the contractual /10/ relationship signed on the 17/05/2023 between the Carbon Check (India) Private Ltd. (hereafter the "VVB") and the project participant - Value Network Ventures Advisory Services Pte. Ltd. The team assigned to the verification meets the Carbon Check (India) Private Ltd's internal procedures including the UNFCCC requirements for the team composition and competence. CCIPL has conducted a thorough contract review as per UNFCCC and Carbon Check's procedures and requirements.

The verification has been performed as per the requirements described in the Gold Standard for the Global Goals Principles & Requirements (version 1.2) /B01-a/; and GS4GG VVS version 1.0 /B01-b/ and constitutes the review and completion of the following steps:

- Review of the registered RCP PDD (version 4.0; Dated: 16/10/2022) /09/, including the monitoring plan and the corresponding validation report /09/, the Sustainability Matrix and monitoring data;
- Desk review of the MR, emission reduction spreadsheet
- Review of the applied monitoring methodology "AMS-I.E 'Switch from non-renewable biomass for thermal applications by the user" (version 12.0) /B05/;
- Review of any CMP and EB decisions, clarifications and guidance and the Gold Standard Secretariat;
- On-site assessment (10/07/2023 to 15/07/2023)
- Resolution of CARs and CLs raised during verification.
- Issuance of Verification Report

In Carbon Check's opinion, the project activity was correctly implemented according to selected monitoring methodology monitoring plan and the registered RCP PDD /09/. The monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through document review and on-site assessment, the verification team confirms that the project has resulted in the 17,051 tCO<sub>2</sub>e emission reductions during this sixth monitoring period. The GHG emission reductions and non-GHG parameters were correctly calculated/monitored based on the approved monitoring methodology "AMS-I.E, "Switch from non-renewable biomass for thermal applications by the user", (version 12) /B05/ and the monitoring plan contained in the registered RCP PDD (version 4.0; Dated: 16/10/2022) /09/.

Verification findings

Х

Х

Х

Х

Х

#### SECTION B. Verification team, technical reviewer and approver

#### Role Involvement in No. Last name First name Affiliation (e.g. name of Desk/document review central or other office of VVB or **On-site inspection** outsourced ype of resource entity) nterviews Rishi K. CCIPL Х 1. IR Raychoudhur Х Team Leader Х 2. Technical IR Anand Amit CCIPL Х Х Х Expert ΚV CCIPL Х Х 3. Team IR Kiran Х Member CCIPL Х Х 4. Trainee IR Raj Piyush Х Assessor Trainee Nifiya J CCIPL NA 5. IR Jeni Miraclin Х NA Assessor

#### B.1. Verification team member

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

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

#### **SECTION C. Application of materiality**

The threshold of materiality was evaluated based on "Guideline: Application of materiality in verifications" (version 02.0) /B09/. It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 5% of 17,051 tCO<sub>2</sub>e which is equal to 853 tCO<sub>2</sub>e.

In planning the verification, verification team took cognizance of para. 11 and para. 12 of the "Guideline: Application of materiality in verifications" (version 02.0) /B09/ and a materiality threshold of 853 tCO<sub>2</sub>e is determined for the current verification of the project activity.

#### C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to	As	ssessment of the risk	Response to the risk in the
	material errors, omissions or misstatements	Risk level	Justification	verification plan and/or sampling plan
1.	Human Error: Recording and reporting of the information in the ER spreadsheet.	Medium	All the ER spreadsheet data of the bio-digester plants database, determination of parameters for operational of Bio-digester plants including data calculation. This includes all the parameters to be monitored ex-post as per the PDD	The risk were mitigated by reviewing the training records of the personnel involved in the data capture and calculations. The monitoring responsibilities will be reviewed. Also, the ER data/calculations will be cross- checked to insure error-free data.

2	Information System: Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability, security	Medium	The data is recorded in spreadsheets based on the raw data collected during the field visits. Access to the spreadsheets for calculation of ERs, monitoring and sales database and baseline project & baseline, and other test records.	The identified risk were mitigated by reviewing the management of access to the records. It will be confirmed through interviews whether the raw data is collected by the field personnel and then transmitted and stored electronically to the PP's office. The data quality control to be checked
3	. Sample	Medium	The sample size is not suitable, or the surveyed plants are not random (If applicable)	Cross-check the procedure to identify the sample size against the sampling guideline and standard and confirm the sample size is calculated correctly.

#### C.2. Consideration of materiality in conducting the verification

>>

In line with the Guidelines for Application of materiality /B09/ in verification, a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records was done by the verification team and compared with the values indicated in the emission reduction spreadsheet.

Some inconsistencies were identified and subsequently finding was raised. These findings are detailed in Appendix 4 and they were successfully closed. Therefore, related identified mistakes as listed in findings in Appendix 4 to this report have been determined to be immaterial. And thus, it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

#### **SECTION D. Means of verification**

#### D.1. Desk/document review

>>

The verification was performed primarily based on the review of the Monitoring report /01-e/, emission reduction worksheet /02-c/ and 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.

#### D.2. On-site inspection

	Duration of on-site ins	spection: 10/07/2023 to 15	/07/2023	
No.	Activity performed on-site	Site location	Date	Team member
1.	Verify actual implementation of the	Chhindwara and Betul	10/07/2023	Rishi K
	project, management structure, project	(Madhya Pradesh),	to	Raychoudhury
	participant	Gaya and Arwal (Bihar),	15/07/2023	
2.	Physically checking the project	Dumka, Deoghar and		Amit Anand
	technology, end user details,	Jamtara (Jharkhand)		
	identification of project biogas systems,			Kiran K V
	whether the pre-project fuel is in use,			
	whether the project biogas systems are			Piyush Raj
_	inoperational			
3.	Management and operational system:			
	Documentation, allocation			
	OT			
	responsibilities, qualification and			
	training, data recording & archiving,			
	Internal audit and management review			
	and emergency			
4	procedures			
4.	Interviews with end user and other			
	stakenoiders			

#### D.3. Interviews

No.		Interviewee		Date	Subject	Team
	Last name	First name	Affiliation			member
1.	Kalita	Ranjit	VNV	10/07/2023 to 15/07/2023	PDD development, GS requirements, Emission reduction calculations, methodology applicability.	Rishi K Raychoudhury Amit Anand
2.	Pardhi	Rameshwar	AKKPS	10/07/2023 & 11/07/2023	Project Design, ownership details, carbon credit sharing	Kiran K V Piyush Raj
3.	Urkude	Ravindra	AKKPS	10/07/2023 & 11/07/2023	arrangements, monitoring and reporting arrangements, QA/QC	
4.	Baghel	Arun	AKKPS	10/07/2023	procedures, baseline assessment, project technology	
5.	Dehariya	Yogesh	End User	10/07/2023	Commissioning details,	
6.	Sanodiya	Govind	End User	10/07/2023	Agreement with project	
7.	Yaduwasi	Karan	End User	10/07/2023	developers, Functioning	
8.	Solanki	Rajkumar	End User	10/07/2023	of biogas systems,	
9.	Yaduwanshi	Aditya	End User	11/07/2023	sustainability issues,	
10.	Amrute	Shweta	End User	11/07/2023	baseline fuel. Post	
11.	Khobare	Jagdish	End User	11/07/2023	project benefits, Impact	
12.	Pawar	Visnnu	End User	11/07/2023	on nealth and livelihood.	
13.	Pawar	Krishnarao	AKKPS	11/07/2023	Maintenance, grievance	
14.	Kumar	Vinod	AKKPS	13/07/2023	system, field visit etc.	
15.	Singh	Satya	End User	13/07/2023	Commissioning details,	
10.		Dirikatesh		13/07/2023	Agreement with project developers, Functioning of biogas systems, sustainability issues, baseline fuel. Post project benefits, Impact on health and livelihood.	
17.	Verma	Ramayodhya	AKKPS (Field co- ordinator- Bihar)	13/07/2023	Maintenance, grievance system, field visit etc.	
18.	Ray	Krishna Prasad	AKKPS (Field co- ordinator- Jharkhand)	15/07/2023	Maintenance, grievance system, field visit etc.	
19.	Raut	Shambhu Kr.	RET	15/07/2023	Details of survey, methodology, survey results, QA/QC procedure etc.	
20.	Hajra	Sheela	End User	15/07/2023	Commissioning details.	
21.	Lal	Munni	End User	15/07/2023	Agreement with project	
22.	Hembram	Munshi	End User	15/07/2023	developers, Functioning	
23.	Singh	Kishore Kr.	End User	15/07/2023	of biogas systems, sustainability issues, baseline fuel. Post project benefits, Impact on health and livelihood.	

#### D.4. Sampling approach

>>

#### **PP's sampling approach:**

PP has proposed simple random sampling plan using 90/10 as confidence / precision for annual monitoring. This is in line with the applied methodology /B05/. 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) /B07/.

The monitoring parameters monitored through the sampling plan are:

- 1) Number of operating unit (Bio-digesters) under the project activity.
- 2) Average annual consumption of woody biomass per household in the pre-project devices during the project activity.

#### CCIPL's verification sampling approach:

As per para.25 of the Standard: Sampling and surveys for CDM project activities and programmes of activities (version 09.0) /B08/, the verification team has to verify whether the project participant have implemented the sampling and surveys according to the sampling plan in the registered monitoring plan. The verification includes determining:

- (a) Whether the required confidence/precision has been met.
- (b) Whether the selected sample was representative of the population.

In line with para. 26 of the Sampling Standard (version 09.0) /B08/, the verification team has applied a sampling approach for remote surveys as part of verification. Since PD had applied a sampling approach, the verification team has chosen acceptance sampling for monitoring parameters in accordance with para. 28 of the sampling standard (version 09.0) /B08/.

The following table illustrates the agenda covered during the acceptance sampling by the VVB in accordancewith Table 1, para. 37 of "Standard: Sampling and surveys for CDM project activities and programmes of activities (version 09.0) /B08/;

Parameter	How the PP conducted sampling surveys	How the VVB could obtain records for verification	Criteria for deciding what ultimately constitutes a discrepancy
Number of operating unit (Bio-digesters) under the project activity- proportionate parameter	Sampling based survey (questionnaire survey/interviews)	<ul> <li>Cross-check of a sample of PD's samples (Questionnaire, operation surveys/interviews) including but not limited to following:</li> <li>Consistency between the information as contained in Survey sheet and revealed from on-site inspection interviews.</li> <li>Baseline scenario</li> <li>Enquire/observe whether bio-digesters are in use or not?</li> </ul>	VVB results, accounting for duly justified differences.
Average annual consumption of woody biomass per household in the pre-project devices under the project activity – mean value parameter	Sampling based survey (questionnaire survey/interviews)	<ul> <li>Cross-check of a sample of PD's samples (Questionnaire, operation surveys/interviews) including but not limited to following:</li> <li>Consistency between the information as contained in the survey sheet and found from onsite inspection and interviews.</li> <li>Enquire about firewood</li> </ul>	VVB results, accounting for duly justified differences.

	consumption	in	the	project
	scenario.			

CCIPL has considered para 39 (a) of "Standard for Sampling and surveys for CDM project activities and programmes of activities, Version 09.0" /B08/ for determining the sampling size to be visited by VVB /12/. In case of the current verification, the estimated emission reduction is 41,877 tCO2e per year, the verification team determined the sample size for acceptance sampling by evaluating the following, using its own professional judgment and guidance in the Standard 'Sampling and surveys for CDM project activities and programme of activities' version 09.0 /B08/: Considering Acceptable Quality Level (AQL): 0.5% Unacceptable Quality Level (UQL): 20% and producer risk of 10% and consumer risk of 5% a sample size of 14 was required as per Table2 in the referred Standard /B08/. Acceptance number (c) thus determined for the sample size is 0. CCIPL choose 14 samples to verify the project activity. The verification team selected random samples from PD's sample list. The operational status of project biogas systems was checked during the site visit for the identified samples from areas which were safe and logistically possible to travel. The biogas system details (unique serial number, date of commissioning, type of biogas system, technology, name of user and address) were also checked and found to be consistent with that reported in the installation database. Some inconsistency was observed for 2 samples out of the 14 samples with respect to the observations in the field, interviews& document review that reported in the survey report. The non-operational period found outside the monitoring period which is confirmed during onsite visit /12/ i.e., household response and maintenance records /06/. This assessment of the selected samples was done to ascertain the implementation status of the project activity w.r.t. the biogas system types, serial number, location etc.

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

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring	-	-	-
report form			
Compliance of the project implementation and operation	CL 01	CAR 01	-
with the registered PDD			
Post-registration changes	-	-	-
Compliance of the registered monitoring plan with the	CL 04	-	-
methodologies including applicable tools and			
standardized baselines			
Compliance of monitoring activities with the registered	CL 03	CAR 02	-
monitoring plan	CL 05		
	CL 06		
Compliance with the calibration frequency requirements	-	-	-
for measuring instruments			
Assessment of data and calculation of emission	-	-	-
reductions or net removals			
Assessment of reported sustainable development co-	CL 02	-	-
benefits			
Global stakeholder consultation	-	-	-
Others (please specify)	-	-	-
Total	06	02	-

#### **SECTION E. Verification findings**

#### E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	Document Review and Interview
Findings	No finding raised.
Conclusion	CCIPL confirms that the monitoring report initial version 1.0 of 18/04/2023 and final
	version 3.2 of 02/01/2024 are prepared using GS monitoring report template

version	1.1	of	14/10/2020	/B03/	which	is	the	latest	available	template	and
complet	ed w	ith	relevant infor	matior	n as pei	r th	e ten	nplate i	requireme	nt.	

#### E.2. Remaining forward action requests from validation and/or previous verifications

>>

Based on the review of validation report /09/ and previous verification report /08/, no FAR found raised which needed to be addressed during this verification.

#### E.3. Compliance of the project implementation and operation with the registered project design document

Means of verification	Document Review and Interview
Findings	CL 01 & CAR 01 is raised and closed satisfactorily. Please refer appendix 4 for
	further details.
Conclusion	As verified from on-site audit and third-party survey report /05/, the audit team confirm the project implementation and operation complies with the updated project design document /09/. The biogas systems are constructed and commissioned by approved Renewal Energy Technicians (RETs) at each state who are under the contractual framework of AKKPS. Contractual arrangements between RET and AKKPS were already validated as per the validation report /09/. End users transfer the ownership of carbon credit /07/ via end user agreement as validated and verified during previous verification /09, 08/. Value Network Ventures Advisory Services Pte. Ltd. is working as partner /14/ to AKKPS for sale of carbon credit generated from the project activity. The operational and management structured is verified from document review and on-site interview /12/. The project considers 12,695 household bio-digester plants commissioned in between 07/02/2017 – 08/02/2018 in Madhya Pradesh, Bihar and Jharkhand. At each project location (end user point) the bio-digester replaces firewood consumption to meet energy demand in kitchen. The operational status of all 12,695 bio-digesters are confirmed during the monitoring period as per third party sample survey report /05/ and on-site visit /12/ in some sample biogas systems.
	CCIPL has considered 14 bio-digesters samples as explained in section D.4 above to ascertain accuracy of information. CCIPL confirms the project biogas systems are operating in all samples except 2, which were found non-operational. However, household mentioned that plants were operational during monitoring period and PD has provided maintenance records /06/ for both samples which establish operational status of both project devices. During onsite audit, each biogas system has unique identification number which has been provided in the end user agreement and are correct as per project database. The unique identification is also marked at each biogas plant physically. 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.
	The project has a continuous grievance procedure system in place that keeps track of all grievances received and their status. Each biogas user is provided a service card /06/ with contact details of technician/project proponent and responsible supervisor to report any input/grievance or complaint. The supervisor/project maintenance team also keeps a register in which they document grievances (if any) that any user files as part of the ongoing grievance procedure. Any issue of the biogas system is logged in to the service card together with the progress of the action being done and record maintained. The supervisor submits a summary of their records /06/ to project proponent for compilation.
	During this monitoring period, VVB found that no major grievance/complaint /06/ received from the biogas users. Routines checks of the digester system were carried out by the Biogas Service Center technician /14/.
	It is noted that no changes have been observed or identified which 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 PD; 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 12 /B05/. The operational status of all project bio-digesters, impact on identified SDGs from 07/02/2022 to 06/02/2023 has been taken into consideration.
It is Carbon Check's opinion that the project implementation and operation complies with the RCP project design document.

#### E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents<sup>1</sup>

>>

Not Applicable

#### E.4.2. Corrections

>> Not Applicable

#### E.4.3. Changes to the start date of the crediting period

>> Not Applicable

#### E.4.4. Inclusion of a monitoring plan

>>

Not Applicable

E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

>>

Not Applicable

#### E.4.6. Changes to the project design

>>

Not Applicable

#### E.4.7. Changes specific to afforestation and reforestation project activities

>>

Not Applicable

## E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

Means of verification	Document Review and Interviews
Findings	CL 04 is raised and closed satisfactorily. Please refer appendix 4 for further
	details
Conclusion	During this monitoring period, the validated and registered monitoring plan /09/ was found to be in accordance with the applied methodology /B05/.
	All monitoring parameters, monitoring procedures follow the methodology requirements and registered monitoring plan.

<sup>&</sup>lt;sup>1</sup> 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).

### E.6. Compliance of monitoring activities with the registered monitoring plan

	E.6.1.	Data and	parameters	fixed ex	ante or a	at renewal	of cre	editing period
--	--------	----------	------------	----------	-----------	------------	--------	----------------

Means of verification	Document Review and Inte	erviews	
Findings	No finding raised.		
Conclusion	The following ex-ante parar	meters are considered in the calculati	on of the emission
	reductions.		
	Parameter	Value	Description/As sessment
	Fraction of woody biomass saved by the project activity during year y that can be established as non- renewable biomass $(f_{NRB,y})$ in percentage.	86.4% for MadhyaPradesh 87.6% for Jharkhand and 97.4% for Bihar	f <sub>NRB</sub> is calculated as per tool to calculate the fraction of non- renewable biomass and fixed for the entire crediting period /09/
	Number of households in the project activity in year y (N <sub>HH</sub> )	PlaMPBihJhaTotalntarrkhcapandapcity	The number of households in the project activity is fixed based on
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	commissioning report, database /03/ and as well
		96         8           4m³         240         3         0         243           6m³         8         0         0         8	as RCP PDD /09/.
		Tot         10,         840         1,6         12,6           al         197         58         95	
	Average annual consumption of woody biomass per household before the start of the project activity (BC <sub>BL,HH,y</sub> ) in t/household/year	M.P         3.93           BH         4.46           JH         3.87	The baseline fire-wood consumption is as per third party survey report fixed ex- ante in the registered RCP PDD /09/.
	Net calorific value of the non-renewable woody biomass that is substituted (NCV <sub>biomass</sub> ) in TJ/Tonne	0.0156	Net Calorific Value of the wood used as cooking fuel. Default value as per the applied methodology /B05/.
	Emission factor for the substitution of non- renewable woody biomass by similar consumers (EF <sub>projected_fossilfuel</sub> ) in tCO2/TJ	64.4	Emission factor for the substitution of non-renewable biomass by similar consumers. Default value as per the applied methodology /B05/.

CCIPL is able to confirm that the Data and parameters fixed ex ante have
beenimplemented in full compliance with the registered monitoring plan.

#### E.6.2. Data and parameters monitored

Means of Desk Review and Interview	ws	
Findings CL 05, CL 06 & CAR 02 are 4 for further details.	re raised and closed satisfa	ctorily. Please refer appendix
Findings       CL 05, CL 06 & CAR 02 and 4 for further details.         Conclusion       Parameter         Date       of         commissioning       of         project device type i       Average         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         (BC <sub>P1,HH,y</sub> ).       Number       of         Number       of       1         households       (biogas       system) in the project         activity in operational       per year (N_HH,y)       Image: state of the state o	re raised and closed satisfa Value 12,695 State tonnes/ HH/year Madhya 0.33 Pradesh Bihar 0.90 Jharkhand 0.26 11,793	Description/Assessment There is no addition or removal of biogas plants in the project activity since validated number of plants in RCP /09/. Hence the number is correct. As per survey, some samples reported fire- wood consumption during the monitoring period. PD has accordingly considered the same for the entire population with the same rate which is conservative. The verification team found the reported values are consistent with survey report and survey forms. Hence, PD's record and result is conservative. The parameter is monitored through third party survey /05/. The survey identified sampled households as per UNFCCC guideline. As per survey results 79 out of 85 samples were found in operation during the monitoring period. The verification team visited random 14 biogas systems from PP's sample record and found 12 out of 14 visited samples are in operational. The non- operational period found outside the monitoring period which is confirmed during onsite visit /12/ and maintenance records /06/. All users confirmed that during the monitoring period biogas plants are completely operating.

### E.6.3. Implementation of sampling plan

Means of verification	Desk Review and Interviews					
Findings	CL 03 is raised and closed satisfactorily. Please refer appendix 4 for further details.					
Conclusion	According to the standard for sampling and survey /B08/ and related guidelines         /B07/ 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 are of homogeneous. The sample size is determined by the requirement to achieve 90/10 in line with the methodology for annual survey. Sampling approaches may follow the Guideline "Sampling and surveys for CDM project activities and programme of activities" /B07/ for calculation of sample size.         -       Data to be collected: Number of project devices of type i and operating in year y.         -       Implementation plan: Annual.         Actual implementation of sampling plan during the monitoring plan:         -       Sampling method: The sample size included all households and was randomly sampled from a list of all the project biogas system in the project. The target population is the 12,695 plants covering all three states. The sampling frame is homogenous within itself, with respect to service level, established ex-ante baseline and user characteristics. Depending on the number of biogas system commissioned in each State, PD has first determined target sample number from total target of 85 biogas as below:         State       No. of Biogas plants       Proportion       No. of					
		State	No. of Biogas plants	Proportion	No. of samples	
		M.P	10,197	80.32%	68	
		Bihar	840	6.62%	6	
		Jharkhand	1,658	13.06%	11	j
	In actual The total 86 Anne: Program standard EB 86 A system generato	the survey to sample size I x 4, Guideline me of Activitie deviation and nnex 4 /10/. using onli r.aspx') for su	ok 85 samples. has been derived using e is for Sampling and Surv es Ver. 4.0. /B07/. The e d proportion) have been t From each state, PD f ne tool "https://statt irvey.	equation para veys for CDN expected par taken as per nas randomly rek.com/stati	a 12 of appen I Project activ ameter value para 12 of ap y selected th istics/random	dix 1, EB /ities and s (mean, pendix 1, e biogas -number-
	Data coll detailed obtained data is st	ected: Questi survey report is less than atistically acc	onnaire survey form use has been provided /05/ 10% for the monitored p eptable and deemed rep	d by third pai . Since the re parameter, re presentative o	rty surveyor /( elative margir elative precision of the populat	)5/ and a n of error on of the ion.
	Survey read	esult shows se desired cor	92.94% operational stati ofidence precision has be	us of all sam een still achie	ipied bio-gas eved.	systems
	The verifier	fication team g the followin l 'Sampling a ' version 09.0 table Quality 6 a sample siz cceptance nu l 4 samples from	determined the sample g, using its own professi nd surveys for CDM pr /B08/: Considering Acc Level (UQL): 20% and p ze of 14 was required as mber (c) thus determine o verify the project activ PD's sample list.	size for acc onal judgme oject activitie eptable Qua roducer risk per Table2 in d for the sar ity. The verif	ceptance san nt and guidar es and progr lity Level (AC of 10% and c n the referred mple size is ( fication team	npling by ice in the amme of L): 0.5% onsumer Standard 0. CCIPL selected

	VVB confirms that the sampling size and the method of on-site assessment was
	in line with the requirements of the sampling standard /B08/.

#### E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	Desk Review and Interviews
Findings	No finding raised.
Conclusion	There is no monitoring equipment involved in monitoring of the required parameters. Hence, no calibration requirement applicable for the project activity.

#### E.8. Assessment of data and calculation of emission reductions or net removals

#### E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	Desk Review and Interviews
Findings	No finding raised.
Conclusion	Baseline emissions are estimated as per equation 1 of AMS-I.E version 12 as follows:
	$BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected fossil_fuel}$
	Where:
	$BE_y$ = Baseline emissions during the year y in tCO <sub>2</sub> e
	By = Quantity of woody biomass that is substituted or displaced in tonnes
	f <sub>NRB,y</sub> = Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass (fNRB)
	NCV <sub>biomass</sub> = Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)
	EF <sub>projected_fossil_fuel</sub> = Emission factor for the substitution of non- renewable woody biomass by similarconsumers. Use a value of 64.4 tCO <sub>2</sub> e
	By is determined as per equation 2 of AMS-I.E version 12 as follows:
	$B_{y} = N_{HH} \times (BC_{BL,HH,y} - BC_{PJ,HH,y})$
	Where: $N_{HH}$ = Number of households in the project activity, number
	BC <sub>BL,HH,y</sub> = Average annual consumption of woody biomass per Household before the start of the project activity, tonnes/household/year.
	BC <sub>PJ,HH,y</sub> = If it is found that pre-project devices were not completelydisplaced 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.
	Average annual consumption of woody biomass per household before the start of the project activity, tonnes/household/year (BC <sub>BL,HH,y</sub> ) is determined as per

baseline survey and if pre-project device is continue to be use BC <sub>PJ,HH,y</sub> to be
monitored and considered accordingly. Number of households in the project
activity (N <sub>HH</sub> ) shall be monitored and reported accordingly.

	Update	ed PDD Val	ue	The number of bio
- Ann	2m <sup>3</sup> 3m <sup>3</sup>	4m <sup>3</sup>	6m <sup>3</sup>	plants conside
	Madhya Prade	esh	0	number of househ
	6,153 3,79	6 240	8	as individual sys
	Bihar			represents indivi
	750 87	3	0	household. The num
	Jharkhand			are as per pro
	1603 55	0	0	database /03/. Ad
				operational number
				monitored as per su
				/05/ which reported
				samples out of
				sampled bio-diges
				are in operation du
				the monitoring per
				VVB found
				operational bio-dige
				digesters
				operation The r
				operational period for
				outside the monito
				period which
				confirmed during or
				visit /12/
				maintenance rec
				reported value is cor
BC <sub>BL,HH,Y</sub>		· - "		The baseline fire-w
	State	Tonnes/H	HH/year	consumption is as
	Madnya	3.93		/09/ and validation re
	Bibar	1.46		/09/
	Jharkhand	3.87		
	onantiana	0.01		
BC <sub>PJ,HH,y</sub>	01.1	1		As per survey /05/, so
	State	tonnes/H	⊓/year	wood consume
	Pradeeb	0.55		during the monito
	Bihar	0.90		period. PD
	Jharkhand	0.26		accordingly conve
		0.20		the same for the er
				population with the sa
				rate which
				conservative. The
				the reported values
				consistent with our
				report /05/ and su
				forms, Hence, F
				record and result

	86.4% for Madhya Pradesh
	87.6% for Jharkhand
	97.4% for Bihar
	Accordingly, total Baseline emissions for entire plants achieved is $17,948$ tCO <sub>2</sub> e. Baseline emissions is calculated for only 6 months ( $11/08/2022$ to $06/02/2023$ ) since the renewal of crediting period was done on $11/08/2022$ .
	VVB confirms that baseline emissions have been appropriately calculated /02-c/ and are consistent with on-site assessment /12/, the applied methodology /B05/ and registered RCP PDD /09/.

## E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	Desk Review and Interviews
Findings	No finding raised.
Conclusion	Project emissions is zero as per registered RCP PDD /09/. CCIPL confirms that project emissions have been appropriately calculated and are consistent with on-site assessment /12/, the applied methodology /B05/ and registered RCP PDD /09/.

#### E.8.3. Calculation of leakage GHG emissions

Means of verification	Desk Review and Interviews
Findings	No finding raised.
Conclusion	The Net to Gross Leakage Adjustment Factor has been included in the emission reduction calculations applying adjustment factor 0.95 as per paragraph 39 of the applied methodology. So, the actual leakage emission would be 5% of baseline emission. The leakage emissions during the monitoring period is 897 tCO <sub>2</sub> e.
	of emission reduction as per the applied methodology.

### E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	Desk Review and Interviews		
Findings	No finding raised.		
Conclusion	The emission reductions in this monitoring period are:		
	$ER_y = BE_y - PE_y - LE_y$		
	Where,		
	ER <sub>y</sub> is the total emission reductions of the project activity during the year y		
	in tCO <sub>2</sub> e;		
	$BE_y$ is the baseline emissions for the project activity during the year y in tCO <sub>2</sub> e;		
	$PE_y$ is the emissions for the project activity during the year y in tCO <sub>2</sub> e;		
	$LE_{y}$ is the leakage emissions for the project activity during the year y in tCO <sub>2</sub> e.		
	As explained in section E.8.1 above, the resulted Baseline emissions (BE <sub>y</sub> ) for the monitoring period is 17,948 tCO <sub>2</sub> . Similarly, as explained in section E.8.2 and section E.8.3 project emission is zero for the monitoring period and leakage emissions are accounted considering an adjustment factor 0.95 (multiplying with BE <sub>y</sub> ) i.e., 5% of the BE <sub>y</sub> .		
	Therefore, resulted emission reduction for the monitoring period i.e., $07/02/2022$ to $06/02/2023$ is $17,051$ tCO <sub>2</sub> e (roundown value). However, PD has calculated the emission reduction for 6 months since the renewal of the project was done on 11th August 2022.		

	The data presented in the monitoring report /01-e/ and emission reduction
	worksheet /02-c/ were assessed by reviewing in detail project documentation,
	collection of monitored data, observation of established monitoring and reporting
	practices and assessment of the reliability of monitoring equipment. Sufficient
	evidence were presented and verified by CCIPL for the reported emission
	reductions as listed above.

### E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered RCP PDD

Means of verification	Desk Review and Interviews
Findings	No finding raised.
Conclusion	The emission reductions from the project for the monitoring period as reported in the monitoring report revision 3.2 of 02/01/2024 /01-e/ is equivalent to 17,051 tCO2e as against estimated 41,877 tCO <sub>2</sub> e. The difference is due to consumption of some firewood during the monitoring period by some users in pre-project device as well as RCP is delayed by 6 months i.e., started from 11 <sup>th</sup> August 2022 so PD has claimed ERs from 11 <sup>th</sup> August 2022.
	The emission reduction calculations provided in the spreadsheet /02/ have been verified to be correct and in line with the final PDD /09/.

#### E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	Desk Review and Interviews	
Findings	No finding raised.	
Conclusion	The emission reduction achieved during the monitoring period compared to estimated value is 41,877 tCO <sub>2</sub> less which is due consumption of some firewood during the monitoring period by some users in pre-project device and less operational percentage of bio-digesters. Along with it, there is delay in doing RCP and it is done on 11 <sup>th</sup> August 2022. Hence, PD has claimed ERs from 11 <sup>th</sup> August 2022 which leads to difference in estimated and actual ERs.	
	The emission reduction calculations provided in the spreadsheet /02-c/ have beer verified to be correct and in line with the registered RCP PDD /09/	

### E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	Desk Review and Interviews			
Findings	No finding raised.			
Conclusion				
	GHG emission reductions or net GHG	GHG emission reductions or net GHG		
	removals by sinks reported up to 31	removals by sinks reported from 1		
	December 2012 January 2013 onwards			
	NA 17,051 tCO <sub>2</sub> e			
	Year-wise breakup of emission reductions:			
	Year	Emission Reductions (tCO <sub>2</sub> e)		
	07/02/2022 (claimed from 11/08/2022)	13,563		
	to 31/12/2022			
	01/01/2023 to 06/02/2023 3,488			
	The emission reduction calculations provided in the spreadsheet /02-c/ have been			
	verified to be correct and in line with the final RCP PDD /09/, also the values are			
	consistently reported in the MR for this me	consistently reported in the MR for this monitoring period		

#### E.9. Assessment of reported sustainable development co-benefits

Means of verification	Desk Review and Interviews		
Findings	CL 02 is raised and closed satisfactorily. Please refer appendix 4 for further details.		
Conclusion			
	Data variable	Source of Data	Reported value for the project period

Improvement in health and decrease in illnesses (SDG 3)	Survey report / <b>05, 12</b> /	Qualitative b 97.46% res cleaner air o smoke relate	pased survey. Average ponded positively on uality and decrease in d health issues.
Assessment			
As per third pa related to health procedure is as interviewed end illness.	rty survey the sample e h and illness compared s per registered monito users who confirmed po	nd users repo to baseline so ring plan and psitive feedbac	orted positive feedback enario. The monitoring verification team also k related to health and
Data variable	Source of Data	Reported val	ue for the project period
Quantitative employment and Income Generation (SDG 8)	Project developers record /13/	Employees r project activi monitoring p recruited management	ecruited as part of the ty is retained during the period. 8 people were for the project
Assessment		I	
Employment rec to the project ac /08/. The emplo	cords and payment proofs ctivity /13/. This is in cons yees are still retained for	confirms emp sistent with pre the project ac	loyment generation due vious verification report tivity.
Data variable	Source of Data		Reported value for the project period
Access to affordable and clean energy services (SDG 7)	Project developers reco	ord /03/, /12/.	11,793 (~93%) Bio- digesters (Biogas System) were operational.
Assessment			
In line with the r during the mon project biogas accessed to affo	monitoring plan, 11,793 p itoring period. As per thi systems are in operatic prdable and clean energy	project biogas rd party surve on. Hence, 11 v services.	systems are operational y 11,793 out of 12,695 ,793 project users are
VVB confirms the parameters durin are consistent with the parameters durin are consistent with the parameters of the par	hat monitoring of all the g this monitoring period is th site visit /12/ observat	e sustainable s in line with th ions.	development monitoring e SD monitoring plan and

#### E.10. Global stakeholder consultation

Means of verification	Not Applicable
Findings	Not Applicable.
Conclusion	Not Applicable.

#### **SECTION F. Internal quality control**

>>

The final verification report passed a technical review before being submitted to the client for forward submission to GS. A technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification performed the technical review.

#### **SECTION G. Verification opinion**

>>

Carbon Check (India) Private Ltd. (CCIPL) has performed the 6<sup>th</sup> periodic verification of the GS Project Activity "Domestic Biogas Project for rural households in India" in India having GS reference number GS 6275.

The verification team assigned by the VVB concludes that the project activity as described in the registered RCP PDD (version 4.0; dated 16/10/2022) /09/ and the monitoring report (version 3.2 dated 02/01/2024) /01-e/, meets all relevant GS4GG requirements for project activity. The verification has been conducted in-line with the GS4GG principle & requirements (version 1.2) /B01-a/ and GS4GG Validation and Verification standard (version 1.0) /B01-b/.

#### Verification methodology and process:

The verification team confirms the contractual relationship signed on 17/05/2023 between the VVB, Carbon Check (India) Private Ltd. and Project Participants (Value Network Ventures Advisory Services Pte. Ltd.). The team assigned to the verification meets the CCIPL's internal procedures including the UNFCCC requirements for the team composition and competence. The verification team has conducted thorough review as per GS4GG, and CCIPL's procedures and requirements.

The verification has been performed as per the requirements described in the GS4GG principles & requirements /B01/ and constitutes the review and completion of the following steps:

- Reviewing the registered RCP PDD (version 4.0; dated 16/10/2022) /09/;

- Receipt of the MR (initial version 1.0 dated 16/05/2022 /01-a/ and final version 3.2 of 02/01/2024) /01-e/;

- Desk review of the MR /01-e/ and other relevant documents;
- Review of the applied monitoring methodology (AMS-I.E, version 12) /B05/;
- Review of any CMP and EB decisions, clarifications and guidance;
- On-site assessment (10/07/2023 to 15/07/2023);
- Resolution of CARs and CLs raised during verification;
- Issuance of Verification Report

The project activity was correctly implemented according to the selected monitoring methodology and registered PDD /09/. Through document review and on-site visit assessment, the verification team confirms that the project activity has resulted in 17,051 tCO<sub>2</sub>e emission reductions during this sixth monitoring period.

The break-up of emission reduction from 07/02/2022 (claimed from 11/08/2022) to 06/02/2022 is verified during the course of verification are as below:

Vintage	Emission reductions (tCO <sub>2</sub> e)
07/02/2022 (claimed from 11/08/2022) to	13,563.32 ≈ 13,563 tCO <sub>2</sub> e
31/12/2022	
01/01/2023 to 06/02/2023	3,487.71 ≈ 3,488 tCO <sub>2</sub> e

CCIPL therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

#### **SECTION H. Certification statement**

>>

It is CCIPL's opinion that the GHG emission reductions stated in the monitoring report, version 3.2 dated 02/01/2024 for project activity, "Domestic Biogas Project for rural households in India" for period 07/02/2022 (Claimed from 11/08/2022) to 06/02/2023 (Inclusive of both the dates) are fairly stated. The GHG emission reductions were calculated correctly based on the approved monitoring methodology, AMS-I.E, version 12. Hence, CCIPL able to certify that the emission reductions from the project during the monitoring period 07/02/2022 to 06/02/2022 (Inclusive of both the dates) amount to 17,051 tCO<sub>2</sub>e.

### Appendix 1. Abbreviations

Abbreviations	Full texts
AKKPS	Aadivasi Khadi Avom Krishi Parishchan Sansthan
CDM	Clean Development Mechanism
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CL	Clarification Request
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
DR	Desk Review
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
El	External individual
ER	Emission Reduction
FA	Final Approval
FAR	Forward Action Request
FVR	Final validation Report
GHG	Greenhouse gas(es)
GSF	Gold standard Foundation
GS4GG	Gold standard for Global Goals
1	Interview
IPCC	Intergovernmental Panel on Climate Change
IR	Internal resource
MWh	Mega Watt hours
PDD	Project Design Document
PP	Project Participant
OSV	On Site Visit
QC/QA	Quality control /Quality assurance
SS	Sectoral Scope
ТА	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VER	Verified Emission Reduction
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

# Appendix 2. Competence of team members and technical reviewers

			C		on (		
	Cai	rbon Che	ck (	India)	) Priva	te L	.imited
		Certific	ate o	f Com	petency	/	
		Mr. Ris	hi K F	Raycho	udhury		
has be	en qualified as per CCIP ISO/IEC14	'L's internal qualifica 4065:2020, ISO/IEC	ation pro C 17029:	cedures in ac 2019 and ot	cordance with her applicable	the requ GHG pro	uirements of CDM AS (V7.0 ograms:
		for the follo	owing fun	ctions and red	quirements:		
$\boxtimes$	Validator	⊠ Verifier		🛛 Team L	eader	🛛 Tec	hnical Expert
	Technical Reviewer	🗌 Health Experi	t	🗆 Gender	Expert	🗆 Plas	stic Waste Expert
	CCB Expert	🗆 Legal Expert		🛛 Financi	al Expert	🗆 Env Safety	ironmental, Health and financial matters
X	SDG+	🛛 Social no-har	m(S+)	⊠ Enviror no-harm(E	iment +)	Salety	
X	Local Expert for India						
		in th	e followin	g Technical A	reas:		
	□ TA 1.1	⊠ TA 1.2		TA 2.1	⊠ TA 3.1	L	TA 4.1
	□ IA 4. n	□ TA 5.1		TA 5.2		1	
				IA 10.1	□ IA 13	.1	□ IA 13.2
	□ IA 14.1	□ TA 15.1		TA 16.1			
	Issue D	ate				Expiry	Date
	5 <sup>th</sup> Decemb	er 2023			31 <sup>s</sup>	<sup>t</sup> Decem	ber 2024
	Buya Si	man			3	Saujas Ad	anialla
	Ms. Pr Compli	riya Suman ance Officer			Mr	. Sanjay Techn	Kumar Agarwalla iical Director
		Revisi	ion Histor	y of the docu	ment:		
	Revision date	e		Sui	nmary of changes Initial Adoption	ges	
2022					Annual revision	1	





### **Carbon Check (India) Private Limited**

### Certificate of Competency

### Mr. Kiran KV

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 Lead	ler 🛛	Technical Expert
Technical Reviewer	🗌 Health Expert	🗌 Gender Ex	pert 🗌	Plastic Waste Expert
CCB Expert	🗌 Legal Expert	🗌 Financial E	xpert □ Sa	Environmental, Health and fety financial matters
⊠ SDG+	⊠ Social no-harm(S+	) 🛛 Environme	ent	,
oxtimes Local Expert for India		no nann(2+)		
	in the follo	owing Technical Area	s:	
🗆 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 Da	ate		Ex	piry Date
5 <sup>th</sup> Decembe	er 2023		31 <sup>st</sup> De	ecember 2024
Buya Su	എഡ്		Sauf	as Atendalla
Ms. Pri Complia	ya Suman Ince Officer		Mr. Sa T	njay Kumar Agarwalla Technical Director
	Revision Hi	story of the docume	nt:	

Revision date	Summary of changes			
2022	Initial Adoption			
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

Version 04.0



### Appendix 3. Documents reviewed or referenced.

No.	Author	Title	References to the document	Provider
01	VNV Advisory Services	<ul> <li>a) Initial Monitoring report for the project activity.</li> </ul>	Version 1.0, dated-18/04/2023.	PD
		<ul> <li>b) Revised Monitoring report for the project activity.</li> </ul>	version 2.0, dated- 22/08/2023.	
		<ul> <li>c) Revised Monitoring report for the project activity.</li> </ul>	version 2.1, dated- 03/11/2023	
		<ul> <li>d) Revised Monitoring report for the project activity</li> </ul>	version 3.1, dated- 21/12/2023	
		<ul> <li>e) Final Monitoring report for the project activity</li> </ul>	version 3.2, dated- 02/01/2024	
02	VNV Advisory Services	a) Initial ER calculation spreadsheet for the project activity.	Version 01, Dated-11/07/2023.	PD
		b) Revised ER calculation spreadsheet for the project activity	version 2.0, Dated- 03/11/2023.	
		c) Final ER calculation spreadsheet for the project activity.	version 3.0, Dated- 21/12/2023.	
03	AKKPS	Bio-digester database		
04	VNV Advisory Services	SDG Impact tool		PD
05	VNV Advisory Services	Monitoring survey records		
06	AKKPS	Grievance & Maintenance records		
07	VNV Advisory Services & AKKPS	Agreement for transaction of carbon credit	Agreement dated 23/09/2017	
08	VNV Advisory Services	Previous MP monitoring report and verification report		
09	VNV Advisory Services	Registered RCP PDD & Validation report for the project activity	Version 4.0, 16/10/2022	
10	CCIPL	Contract between CCIPL & Client	17/05/2023	
11	VNV Advisory Services	Project start date		
12	CCIPL	Onsite audit records		
13	AKKPS	Employment Records		
14	AKKPS	Agreement between AKKPS & BSC		
15	VNV Advisory Services	Evidence for randomness of sample taken		

#### **Background Documents**

doui	nent
/B01/     GS4GG     a)     GS4GG "Principles & Requirements", version 1.2     www.s	oldstandard.org Publicly Available
b) GS4GG "Validation and Verification standard", version 1.0	
/B02/         GS4GG         Gold Standard and Site visit and remote audit requirements & procedures v2.0         www.g	oldstandard.org Publicly Available
/B03/     GS4GG     GS Monitoring Template v1.1     www.g	oldstandard.org Publicly Available
/B04/ GS4GG GS Community Activity Requirements v1.2 www.	poldstandard.org Publicly Available
/B05/ UNFCCC Small-scale Methodology AMS-I.E 'Switch from non-renewable biomass for thermal	<u>cdm.unfccc.int/</u> Publicly available
applications by the user', version 12	
/B06/ Web sites Websites:	Publicly
http://www.ipcc-nggip.iges.or.jp/	Available
http://www.pciaonline.org/testing	
http://circodu.org.ug/	
/B07/ UNFCCC Guidelines: Sampling and surveys for CDM <u>http://u</u>	<u>cdm.unfccc.int/</u> Publicly
(version 04.0)	
/B08/ UNFCCC Standard: Standard for sampling and surveys http://	cdm.unfccc.int/ Publicly
for CDM project activities and Programme of Activities (version 09.0)	Available
/B09/ UNFCCC Guideline: Application of materiality in www.g	poldstandard.org Publicly

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

Table 1.	Remaining FAR f	rom validation	and/or previous verification	S
No FAR from	previous verification			
FARID	XX	Section no.	E.2	Date: DD/MM/YYYY
Description	1 OF FAR			
Droigot por	tioinant roonanaa			
Project par	ticipant response			
Document	ation provided by pr	niect narticinar	at	
Documenta			it.	
VVB asses	sment			Date: DD/MM/YYYY
Table 2.	CL from this veri	fication		
CL ID	01	Section no.	E.1	Date: 24/07/2023
Description	n of CL			
PD is reque	sted to provide the e	vidence for start	date of the project activity.	
Project par	ticipant response			Date: 22/08/2023
The project	involves biogas plant	s that were com	missioned from 7 <sup>th</sup> February 20	017 onwards in the states of
Madhya Pra	adesh, Jharkhand and	Bihar which is th	ne start date of the project. The	project was design certified
on 17 <sup>m</sup> July	2018 by GS Sutaince	ert. This informa	tion is provided in section A1 (	of the MR and section A1 of
FUD. The V	lidation of this proje	ect was already	carried out during initial regis	tration with Sustaincert and
Document	ation provided by pr	niect participar	.2. ht	
PDD versio	n 4.0 and MR version	2.0 and copies	of plant completion certificate	
VVB asses	sment		of plant completion certificate.	Date: 08/09/2023
PD has sub	mitted updated PDD	(RCP PDD) and i	plant completion certificate Ho	wever the plant completion
certificate s	ubmitted by PD does	n't contain the st	art date of proiect activity. PD	is requested to submit plant
commission	ned certificate with res	spect to start dat	e of project activity i.e., 07/02/	2017. Hence. CL is open.
Project par	ticipant response	•		Date: 20/09/2023
The project	was registered with (	GS based on the	commissioning of the biogas	plants from 7 <sup>th</sup> February
2017 onwar	ds until February 201	8. The plant con	nmissioning / functioning start	date is mentioned in the
completion	certificates and in the	project databas	e.	
Please note	that based on the sub	omission of PDD	, the project was already valida	ated during initial registration
with Sustai	ncert and further re	validated during	the renewal crediting period	d (RCP-2) in 2022 which
elucidates t	inat biogas plants the	at were commis	sioned from 7" February 201	7 onwards in the states of
Documente	tion provided by proje	a Dillal.		
	commissioning certif	icate of plants		
VVB asses	sment			Date: 04/10/2023
PD has prov	vided the commission	ing certificate of	the biogas plant "MPB/US/G	H/1250/AKKPS/F7/110" for
the start day	te of the proiect activi	tv which was co	nmissioned on 07/02/2017. H	ence. CL is closed.
		,		
CL ID	02	Section no.	E.6.2	Date: 24/07/2023
Description	n of CL			
PD is reque	sted to provide evide	nce for contribut	ion of project activity in all clai	med United Nation SDGs.
Project par	ticipant response			Date: 22/08/2023
As mention	ed in section E2 and	E4 of the MR, the	e SDG contribution from this p	roject is as follow:
SDG 13 (CI	imate Action) – Redu	ction in greenho	use gas emission (CO <sub>2</sub> ) due t	to replacement of fuel wood
with biogas	(methane) produced	trom the biodige	ster. The achieved net reducti	on is 17,875 tCO2 for which
calculation i	is already provided as	s per the applied	methodology.	
			41	aut of 10 COE bis was also to

SDG 7 (Affordable and Clean Energy): Based on the survey it is estimated that out of 12,695 biogas plants, 11,798 (92.94%) plants were operational for this monitoring period. Hence, 11,798 plants accessed to the

affordable and clean energy. Few samples have been audited by VVB as part of on-site audit for the operational status of the plants. In addition, survey report forms are submitted to confirm the claim.

SDG 3 (Good Health and Wellbeing): Based on the survey, 12,373 households (97.46 %) responded positively for the improvement in health and reduction in illness. Some users commented as Don't Know/No idea, however all users informed that there is reduction in indoor air pollution. The use of biogas as cooking fuel is clean energy, thus no smoke emission from the cooking. Hence, cooking food using biogas have health benefits.

SDG 8 (Descent Work and Economic Growth): The carbon financing for this project has helped to engage local persons as technicians for the maintenance and service of the biogas plants.

#### Documentation provided by project participant

Updated MR version 2.0, Employment enrolment with AKKPS, Salary receipt to technicians.

 VVB assessment
 Date: 08/09/2023

 PD has submitted ER sheet as evidence for contribution of SDG 3, 7 & 13 along with SDG impact tool. Also, PP has submitted employment records and salary slip for person employed due to the project activity during current MP. Hence, CL is closed.

CL ID	03	Section no.	E.6.3	Date: 24/07/2023
Description	n of CL			

1) In monitoring report and in survey report for this MP, PD is mentioned Biogas plant no. "MPB/BGT/LA/1140/AKKPS/E7/498" is not operational during survey whereas during onsite visit household said that it is operational throughout the monitoring period. PD is requested to clarify.

- 2) In the monitoring survey report for the MP, PD has not mentioned the name of the person interviewed during monitoring survey instead PD has mentioned Biogas owner's name in which some of them don't exist anymore. Therefore, VVB could not verify the person interviewed by PD during the on-site assessment. PD is requested to clarify and provide an action plan to meet the requirement.
- 3) The database submitted by PD for biogas plants doesn't contain phone numbers, proper address and geo-coordinates of the HH to prevent the double counting. PD is requested to clarify how no double counting has been ensured noting that other similar projects under several GHG programs are active in the region.

 Project participant response
 Date: 22/08/2023

 1. For sample ID: MPB/BGT/LA/1140/AKKPS/E7/498 in Madhya Pradesh, the plant was not working due to certain fault/malfunction on the day of survey. The non-operational status of the plant is mentioned in the survey report. Afterward, the Biogas Service Center technician carried out necessary servicing / maintenance of the system and make it operational.

Since, the plant was observed non-operational at the time of survey during the monitoring period, this plant has been excluded from the operational status list.

2. An onsite survey of the biogas plant samples were carried out during the survey period in January 2023. The survey questions were asked to the household personnel (mostly biogas owners) at the time of survey. Where biogas owners were not available for interview, the available family members of the household were interviewed during the survey. To avoid confusions in household naming, the name of the household representative as per the project database has been maintained in the survey. However, in future this will be taken care and person interviewed shall also be recorded along with the biogas owner name.

3. The biogas plants under this project was commissioned from 7<sup>th</sup> February 2017 and the project was design certified on 17<sup>th</sup> July 2018 by GS Sutaincert. At that time, each household biogas plant under this project was provided with unique identification numbers (plant ID) to prevent double counting. The plant identification number is provided in the project database and also at the biogas system. Further, an agreement is made between household and the AKKPS for the carbon credit right transfer (point no. 6) where it is mentioned households shall not participate in other carbon offset projects during the project period.

#### Documentation provided by project participant

Copy of survey forms, Site photos with Plant ID, Project database, Copy of Carbon credit transfer.

VVD assessment			Data: 08/00/2023
1 1) DD has talen as a second with a		and the chains monther al	
1) PD has taken conservative a	pproach and ren	noved the above-mentioned	sample from operational list
which is not operational on the	e day of survey w	hereas found operational by	VVI on day of OSV. Hence,
CL is closed.			
2) PD has mentioned that to avo	id confusion plan	t owners name was mention	ed in monitoring survey even
though family members were	interviewed durir	ng monitoring survey. Howev	er. PD has mentioned that in
future PP will record name of	f person interviev	ved along with biogas plant	owners' name Hence CL is
closed		tea along min blogae plant	
2) DD has provided unique ID to	avery biogoo pla	anto clong with DD boo cigno	d oorbon orodit right transfor
3) PD has provided unique iD iC	every biogas pie		
agreement with biogas plant	owners which pre	event participation of other c	arbon projects during project
period. However, in future PP	is requested to ta	ake geo-coordinates and pho	ne no. of biogas plant owners
to further enhancing and prev	ention of double	counting. Hence, CL is close	ed.
CL ID 04	Section no.	E.5	Date: 24/07/2023
Description of Cl			
1) As stated in section B 1 of the		pintoin o registry of issues re	norted by field as ordinators
1) As stated in section B. For the	WIR, ANNPS III		ported by field co-ordinators.
PD is requested to provide the	e copy of the regis	ster of all the samples intervie	wed by PD for the monitoring
period.			
2) PD is requested to provide s	supporting docun	nents to substantiate the va	lues given in the third party
survey report (Survey forms	raw input of sun	vev result survey team of al	the households interviewed
		icy result, survey team of a	
Ducie et a enticia entre en en en			<b>D</b> eter 20/00/2002
Project participant response			Date: 22/08/2023
The field coordinators / technicia	ins carry out peri	odic visit of the biogas plant	s to check operational status
of the system and also attend	the biogas syste	em on call from the house	hold for maintenance. Each
household is provided contact nu	mbers of the Bioc	as maintenance technician s	o they can call the technician
whenever there is fault in the bio	nas system A lo	a is maintained in the service	e card and also logged in the
register for record	guo oyotonn. 7 no		s our and also logged in the
		4	
Documentation provided by pr	oject participan	t	
Biogas service card, Service reg	ister, Grievance I	Register	
VVB assessment			Date: 08/09/2023
1) PD has submitted grievance I	oabook for the cu	rrent MP in which 5 arievand	es are enrolled. PD has also
provided service loabook of h	ionas plants. Her	nce CL is closed	
	loguo planto. Hol		
2) BD has not responded poiths	r aubmitted abov	a requested desumants. Ha	and CL is anon
2) PD has not responded heithe	r submitted abov	e requested documents. Her	
Project participant response			
			Date: 20/09/2023
The supporting document of th	e survey report	such as survey forms, surv	Date: 20/09/2023 /ey data ad survey team is
The supporting document of th enclosed.	e survey report	such as survey forms, surv	Date: 20/09/2023 /ey data ad survey team is
The supporting document of th enclosed.	e survey report	such as survey forms, surv	/ Date: 20/09/2023 /ey data ad survey team is
The supporting document of th enclosed. Documentation provided by pr	e survey report	such as survey forms, survet forms, survet forms, survet forms, survet for the survet forms and the survet for	Date: 20/09/2023 /ey data ad survey team is
The supporting document of th enclosed. Documentation provided by pr Survey forms, survey data and s	e survey report <b>oject participan</b> urvey team.	such as survey forms, survey forms, survey forms, survey forms, survey forms, survey forms, survey for such as	Date: 20/09/2023 vey data ad survey team is
The supporting document of th enclosed. Documentation provided by pr Survey forms, survey data and s VVB assessment	e survey report oject participan urvey team.	such as survey forms, survey for succession for the survey for succession for successic succession for succession for succession for	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023
The supporting document of th enclosed. Documentation provided by pr Survey forms, survey data and s VVB assessment PD has submitted monitoring su	e survey report oject participan urvey team. urvey form with b	such as survey forms, survey forms, survey forms, survey forms, survey forms, survey to the survey forms, survey for the surve	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey
The supporting document of th enclosed. Documentation provided by pr Survey forms, survey data and s VVB assessment PD has submitted monitoring su team. Hence, CL is closed.	e survey report oject participan urvey team. urvey form with b	such as survey forms, survey forms, survey forms, survey forms, survey forms, survey forms, survey for such as the survey for the survey for such as the survey	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey
The supporting document of th enclosed. <b>Documentation provided by pr</b> Survey forms, survey data and s <b>VVB assessment</b> <i>PD has submitted monitoring su</i> <i>team. Hence, CL is closed.</i>	e survey report oject participan urvey team. urvey form with k	such as survey forms, survey forms, survey forms, survey forms, survey forms, survey forms, survey to the survey forms and the survey f	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring su team. Hence, CL is closed.         CL ID       05	e survey report oject participan urvey team. urvey form with to Section no.	such as survey forms, survey forms, survey forms, survey forms, survey forms, survey forms, survey for succession for the survey for the survey for succession for the survey for succession for the survey for s	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring su team. Hence, CL is closed.         CL ID       05         Description of CL	e survey report oject participan urvey team. urvey form with to Section no.	such as survey forms, survey for the survey for survey for the survey for surv	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring su team. Hence, CL is closed.         CL ID       05         Description of CL         In section 5 d of the MB_DD he	e survey report oject participan urvey team. <i>urvey form with t</i>	such as survey forms, surv t peneficiary response along v E.8.2	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring su team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has	e survey report oject participan urvey team. urvey form with to Section no.	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring su team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prad	e survey report oject participan urvey team. <i>Irvey form with b</i> Section no. as obtained value esh, Bihar and	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring surteam. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Pradmonitoring survey whereas as	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood
The supporting document of th enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring suteam. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Pradmonitoring survey whereas as consumption after project activities	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring surteam. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Pradmonitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey data and s         team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prade monitoring survey whereas as consumption after project activity.         0.33, 0.90 and 0.26 respectively.         PP is more conservative than the	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value value obtained b	such as survey forms, surv t peneficiary response along v E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV for y PD through monitoring surv	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey PD is requested to clarify
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring surteam. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prade monitoring survey whereas as consumption after project activity.         0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservative project in the project in the how the conservative project in the how the conservative project in the project i	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value value obtained b value is applied	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify
The supporting document of the enclosed.Documentation provided by prSurvey forms, survey data and sVVB assessmentPD has submitted monitoring su team. Hence, CL is closed.CL ID05Description of CLIn section E.1 of the MR, PD has (ton/HH/year) for Madhya Prad monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively. PP is more conservative than the how the conservativeness in the	e survey report oject participan urvey team. urvey form with b Section no. Section no. Section no. solution of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify
The supporting document of the enclosed.Documentation provided by pr Survey forms, survey data and sVVB assessmentPD has submitted monitoring su team. Hence, CL is closed.CL ID05Description of CLIn section E.1 of the MR, PD has (ton/HH/year) for Madhya Prad monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively. PP is more conservative than the how the conservativeness in theProject participant response	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value value obtained b value is applied.	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey data and s         team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prade monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the Project participant response         The average fuelwood consumption	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value is applied. ion in the state of	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv f Madhya Pradesh, Bihar and	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and
The supporting document of the enclosed.Documentation provided by pr Survey forms, survey data and sVVB assessmentPD has submitted monitoring su team. Hence, CL is closed.CL ID05Description of CLIn section E.1 of the MR, PD has (ton/HH/year) for Madhya Prad monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively. PP is more conservative than the how the conservativeness in theProject participant response The average fuelwood consumption 0.27 respectively as per the data	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value value obtained b value is applied. ion in the state of collected during	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv f Madhya Pradesh, Bihar and survey. This is the mean va	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, classed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prad monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservative ensure in the Project participant response         The average fuelwood consumpt 0.27 respectively as per the data for 68 samples of Madhya Prad	e survey report oject participan urvey team. urvey form with b Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value value obtained b value is applied. ion in the state of collected during esh, 6 samples of	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring surv f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey.
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, survey data and s         VEB assessment         PD has submitted monitoring survey forms, survey data and s         VEB assessment         PD has submitted monitoring survey data and s         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Praded monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the         Project participant response         The average fuelwood consumption 27 respectively as per the data for 68 samples of Madhya Praded household representative is interval	e survey report oject participan urvey team. urvey form with b Section no. Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value obtained b value is applied. ion in the state of collected during esh, 6 samples of viewed with questions	such as survey forms, survey t beneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar a obtained during VVB OSV fo y PD through monitoring survey f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of stions such as average fuel w	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey, vood consumption season in
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, survey data and s         team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prader monitoring survey whereas as consumption after project activity.         0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the form the survey for survey whereas as consumption after project activity.         DP is more conservative than the how the c	e survey report oject participan urvey team. urvey form with b Section no. Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value obtained b value is applied. ion in the state of collected during esh, 6 samples of viewed with quest	such as survey forms, surv t peneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar an obtained during VVB OSV fo y PD through monitoring surv f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of stions such as average fuel v	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 with list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey, vood consumption, season in
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, survey data and s         VE assessment         PD has submitted monitoring survey forms, survey data and s         VE assessment         PD has submitted monitoring survey data and s         team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Praded monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the Now the conservativeness in the the how the conservativeness in the for 68 samples of Madhya Praded for 68 samples of Madhya Praded household representative is inter which more fuel wood is consumption after project solution is consumption.	e survey report oject participan urvey team. urvey form with b Section no. Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value obtained b value is applied. ion in the state of collected during esh, 6 samples of viewed with quest ed, or while the p	such as survey forms, survey t beneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar and obtained during VVB OSV for y PD through monitoring survey. f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of stions such as average fuel v olant does not function. Since	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 vith list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey, vood consumption, season in employ in Piber and 4 complexes
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, survey data and s         VE assessment         PD has submitted monitoring survey forms, survey data and s         VE assessment         PD has submitted monitoring survey monitoring survey         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Praded monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the Now the conservative ness in the for the average fuelwood consumption 0.27 respectively as per the data for 68 samples of Madhya Praded household representative is inter which more fuel wood is consum         In the VVB site audit, the VVB continue to the store of the st	e survey report oject participan urvey team. urvey form with b Section no. Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value obtained b value is applied. ion in the state of collected during esh, 6 samples of viewed with quest ed, or while the possidered 8 sample	such as survey forms, survey t beneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar and obtained during VVB OSV for y PD through monitoring survey. f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of stions such as average fuel v olant does not function. Since es for Madhya Pradesh, 2 sa	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 vith list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey, vood consumption, season in mples in Bihar and 4 samples
The supporting document of the enclosed.         Documentation provided by pr         Survey forms, survey data and s         VVB assessment         PD has submitted monitoring survey forms, survey data and s         team. Hence, CL is closed.         CL ID       05         Description of CL         In section E.1 of the MR, PD has (ton/HH/year) for Madhya Prader monitoring survey whereas as consumption after project activity 0.33, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservativeness in the New the conservative survey survey survey whereas as consumption after project activity 0.37, 0.90 and 0.26 respectively.         PP is more conservative than the how the conservative survey survey survey whereas as consumption after project activity 0.37 respectively as per the data for 68 samples of Madhya Prade household representative is inter which more fuel wood is consumption for the VVB site audit, the VVB construction of the VVB construction of the VVB site audit, the VVB construction of the VVB	e survey report oject participan urvey team. urvey form with b Section no. Section no. as obtained value esh, Bihar and per VVB onsite y (ton/HH/year) for Since the value of value obtained b value obtained b value is applied. ion in the state of collected during esh, 6 samples of viewed with quest ed, or while the posidered 8 sample	such as survey forms, survey t beneficiary response along w E.8.2 e of "average firewood cons Jharkhand as 0.21, 0.30 a audit based on ASP the or Madhya Pradesh, Bihar and obtained during VVB OSV for y PD through monitoring survey. f Madhya Pradesh, Bihar and survey. This is the mean va of Bihar and 11 samples of stions such as average fuel v olant does not function. Since es for Madhya Pradesh, 2 sa	Date: 20/09/2023 vey data ad survey team is Date: 04/10/2023 vith list of monitoring survey Date: 24/07/2023 Umption after project activity nd .27 respectively through value of "average firewood nd Jharkhand is found to be r Madhya Pradesh and Bihar vey. PD is requested to clarify Date: 22/08/2023 Jharkhand is 0.21, 0.30 and lue of fuelwood consumption Jharkhand. While in survey, vood consumption, season in mples in Bihar and 4 samples

I ne results of the surveyed samples and audit samples vary slightly since the are more compared to audit samples. Further, data collected on firewood content interview of the household at the time of survey	number of surveyed samples consumption is based on the
Documentation provided by project participant	
Survey Report	
VVB assessment	Date: 08/09/2023
VVB has conducted the acceptance sampling on the basis of the monitoring	survey conducted by the PD
The audit samples are the representative of the monitoring survey samples. He	ence, any deviation observed
in the monitoring survey result during OSV audit shall be attributed to complete	ete population. The deviation
observed in MP and Bihar during OSV is much more than the acceptance t	hreshold, Hence, PD should
clarify how the considered data of firewood consumption still holds good. Hen	ce. CL is open.
Project participant response	Date: 20/09/2023
The value obtained for the firewood consumption is based on the int	rerview with the household
representative which is a qualitative data. Quantitative measurement using we	eigh machine was not carried
out either during survey or during the OSV by VVB. There can be some varia	tion in informing the quantity
of firewood consumption by the household representative. Further, some of t	he household member at the
time survey and OSV were not the same person as some of them went to agri	cultural field during the OSV
Please note that at the time of survey for example, if the household said that	the firewood consumption is
80-100 kg/year the survey team considered 100 kg /year (ie higher side) for c	conservative value The data
on firewood consumption for cooking is purely based on the interview/ surve	ev questions in the randomly
selected samples in Madhya Pradesh, Bihar and Jharkhand	y quotione in the randomly
It is to be noted that in all the previous survey reports also, the average ar	nual consumption of woody
biomass per household in the pre-project devices during the project activity	(BCPJ.HH.v), the firewood
consumption was in the range $0 - 0.34$ ton/HH/Year which were verified by the	e VVB Thus our survey data
is correct and is acceptable for this monitoring period.	· · · <u>·</u> · · · · · · · · · · · · · · ·
Documentation provided by project participant	
Survey Report, Survey data	
VVB assessment	Date: 13/10/2023
The value of "average firewood consumption after project activity (ton/HH/year	" obtained from OSV through
interviewing the beneficiary is conservative. Thus, PD is requested to consid	der the values obtained from
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open.	der the values obtained from
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b>	der the values obtained from Date: 03/11/2023
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity	Date: 03/11/2023 (ton/HH/year)" obtained from
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV.	Date: 03/11/2023 (ton/HH/year)" obtained from
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV.	der the values obtained from <b>Date:</b> 03/11/2023 (ton/HH/year)" obtained from
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir	der the values obtained from <b>Date:</b> 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S	der the values obtained from Date: 03/11/2023 (ton/HH/year)" obtained from npact tool has been updated Jharkhand as 0.33, 0.90 and
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/	Date: 03/11/2023 (ton/HH/year)" obtained from npact tool has been updated Jharkhand as 0.33, 0.90 and 2023.
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b>	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023.
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023.
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1	Date: 03/11/2023 (ton/HH/year)" obtained from npact tool has been updated Jharkhand as 0.33, 0.90 and 2023.
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 VVB assessment	Date: 03/11/2023 (ton/HH/year)" obtained from npact tool has been updated Jharkhand as 0.33, 0.90 and 2023. fied Data_VVB Date: 15/11/2023
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 VVB assessment PD has appropriately apportioned the outcome of "average firewood consul	Date: 03/11/2023         (ton/HH/year)" obtained from         mpact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 <b>VVB assessment</b> PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. ified Data_VVB Date: 15/11/2023 umption after project activity
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 <b>VVB assessment</b> PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. fied Data_VVB Date: 15/11/2023 umption after project activity
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open.         Project participant response         Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and CO.26 respectively as advised by the VVB in the VVB assessment dated 13/10/         Documentation provided by project participant         Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modit Comments `6275_GO1         VVB assessment         PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.         CL ID       06	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open.         Project participant response         Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and Q.26 respectively as advised by the VVB in the VVB assessment dated 13/10/         Documentation provided by project participant         Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1         VVB assessment         PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.         CL ID       06         Section no.       E.5         Description of CL	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and C.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments `6275_GO1 <b>VVB assessment</b> <i>PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.</i> <b>CL ID</b> 06 <b>Section no.</b> E.5 <b>Description of CL</b> During         During       OSV, it is observed that biogas plant no. "MP/CH	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116"
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and S 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 <b>VVB assessment</b> PD has appropriately apportioned the outcome of "average firewood consu- (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. <b>CL ID</b> 06 <b>Section no.</b> E.5 <b>Description of CL</b> During OSV, it is observed that biogas plant no. "MP/CL "BHP/200/KKPS/E7/148" was not operational. However, the review of data b	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. ified Data_VVB Date: 15/11/2023 umption after project activity Date: 08/09/2023 HI/708/AKKPS/G7/116" & ase, it was observed that the
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and C 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_6275_GO1 VVB assessment PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. CL ID 06 Section no. E.5 Description of CL During OSV, it is observed that biogas plant no. "MP/CH "BHP/200/KKPS/ET/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. ified Data_VVB Date: 15/11/2023 umption after project activity Date: 08/09/2023 HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. <b>Project participant response</b> Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and C 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ <b>Documentation provided by project participant</b> Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 <b>VVB assessment</b> PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. <b>CL ID</b> 06 <b>Section no.</b> E.5 <b>Description of CL</b> During OSV, it is observed that biogas plant no. "MP/CH "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation.	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. fied Data_VVB Date: 15/11/2023 umption after project activity Date: 08/09/2023 HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place
interviewing the beneficiary is conservative. Thus, PD is requested to considered of the CL is open.         Project participant response         Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and C.26 respectively as advised by the VVB in the VVB assessment dated 13/10/         Documentation provided by project participant         Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1         VVB assessment         PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.         CL ID       06         Section no.       E.5         Description of CL         During       OSV, it is observed that biogas plant no. "MP/CI         "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation.         Project participant response	Date: 03/11/2023 (ton/HH/year)" obtained from mpact tool has been updated Jharkhand as 0.33, 0.90 and 2023. fied Data_VVB Date: 15/11/2023 umption after project activity Date: 08/09/2023 HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place Date: 20/09/2023
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open.         Project participant response         Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and Q.26 respectively as advised by the VVB in the VVB assessment dated 13/10/         Documentation provided by project participant         Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1         VVB assessment         PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.         CL ID       06         Section no.       E.5         Description of CL         During       OSV, it is observed that biogas plant no. "MP/CI         "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation.         Project participant response         Please note during the audit, the household representative informed that the formed that the constant of the such situation.	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place         Date: 20/09/2023
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and J 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 VVB assessment PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. CL ID 06 Section no. E.5 Description of CL During OSV, it is observed that biogas plant no. "MP/CI "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation. Project participant response Please note during the audit, the household representative informed that th during this 6 <sup>th</sup> monitoring period (February 2022 – February 2023) as witness	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place         Date: 20/09/2023         ese plants were operational sed by the VVB team. As the
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and J 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_`6275_GO1 VVB assessment PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. CL ID 06 Section no. E.5 Description of CL During OSV, it is observed that biogas plant no. "MP/CI "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation. Project participant response Please note during the audit, the household representative informed that the during this 6 <sup>th</sup> monitoring period (February 2022 – February 2023) as witness household informed that these plants were not operational for last few months	Date: 03/11/2023         (ton/HH/year)" obtained from         mpact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place         Date: 20/09/2023         ese plants were operational sed by the VVB team. As the which was due to household
interviewing the beneficiary is conservative. Thus, PD is requested to conside OSV and apportion the ERs accordingly. Hence, CL is open. Project participant response Noted VVB comments to update the firewood consumption after project activity OSV. The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and Q 0.26 respectively as advised by the VVB in the VVB assessment dated 13/10/ Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modi Comments_6275_GO1 VVB assessment PD has appropriately apportioned the outcome of "average firewood consu (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed. CL ID 06 Section no. E.5 Description of CL During OSV, it is observed that biogas plant no. "MP/CI "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation. Project participant response Please note during the audit, the household representative informed that the during this 6 <sup>th</sup> monitoring period (February 2022 – February 2023) as witness household informed that these plants were not operational for last few months family problem (example sickness, marriage etc). These plants were under ne	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place         Date: 20/09/2023         ese plants were operational sed by the VVB team. As the which was due to household beessary maintenance by the
interviewing the beneficiary is conservative. Thus, PD is requested to consider OSV and apportion the ERs accordingly. Hence, CL is open.         Project participant response         Noted VVB comments to update the firewood consumption after project activity OSV.         The Emission Reduction (ER) sheet, Monitoring Report (MR) and the SDG Ir with considering the firewood consumption for Madhya Pradesh, Bihar and O.26 respectively as advised by the VVB in the VVB assessment dated 13/10/         Documentation provided by project participant         Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modit Comments '6275_GO1         VVB assessment         PD has appropriately apportioned the outcome of "average firewood consult (ton/HH/year)" from OSV in ER calculation spreadsheet. Hence, CL is closed.         CL ID       06         Section no.       E.5         Description of CL         During       OSV, it is observed that biogas plant no. "MP/CI         "BHP/200/KKPS/E7/148" was not operational. However, the review of data b same plants are considered for ER calculation. PD shall clarify what QA / QC to avert and handle such situation.         Project participant response         Please note during the audit, the household representative informed that the during this 6 <sup>th</sup> monitoring period (February 2022 – February 2023) as witness household informed that these plants were not operational for last few months family problem (example sickness, marriage etc). These plants were under ne team appointed by AKKPS.	Date: 03/11/2023         (ton/HH/year)" obtained from         npact tool has been updated         Jharkhand as 0.33, 0.90 and         2023.         fied Data_VVB         Date: 15/11/2023         umption after project activity         Date: 08/09/2023         HI/708/AKKPS/G7/116" & ase, it was observed that the measures have put in place         Date: 20/09/2023         ese plants were operational sed by the VVB team. As the which was due to household cessary maintenance by the

Since these plants were operational for the entire monitoring period (MP6: February 2022 – February 2023), thus these samples were considered for the ER.

#### Documentation provided by project participant Maintenance log sheet, survey report Date: 13/10/2023 **VVB** assessment VVB has conducted OSV as per sampling standard having sample size (n) 14 with acceptance number (c) 0. Thus, PD is requested apply reasonable adjustment for 2 non-operational samples out of 14 in ER calculation, as per para. 36 of Sampling Standard v4.0 and revise the ERs. Hence, CL is open. **Project participant response** Date: 03/11/2023 The biogas plant no. "MP/CHI/708/AKKPS/G7/116" & "BHP/200/KKPS/E7/148" were operational during the monitoring period (February 2022 – February 2023). The survey report also indicate that these plants were operational, and evidence of maintenance record was shared with VVB. During the audit also, the household representative informed that these plants were operational during this monitoring period and was witnessed by the VVB. However, VVB has advised to consider these two plants as non-operational in the ER calculation sheet. Thus, ER has been updated and accordingly, MR and SDG Impact tool has been revised. Documentation provided by project participant Updated MR version v3, ER version v2, SDG Impact tool version v2 and Modified Data VVB Comments `6275 GO1 VVB assessment Date: 15/11/2023 PD has not appropriately apportioned the outcome of OSV for parameter "Number of households (biogas system) in the project activity in operational per year $(N_{HH,y})^{n}$ in ER calculation spreadsheet. Hence, CL is open. Date: 21/12/2023 Project participant response A meeting was convened between the VVB team and VNV Advisory Services on 8th December 2023 to discuss the DVR clarifications regarding the operational status of the biogas plants. Based on the discussion, VVB advised VNV Advisory Services to share additional evidence to confirm that the two plants (MP/CHI/708/AKKPS/G7/116 and BHP/200/KKPS/E7/148) were operational during the monitoring period (February 2022 - February 2023). The maintenance record of the biogas plants logged in the biogas service card indicates that both the biogas plants were operational during the monitoring period. Thus, these two plants were operational for this monitoring period and accordingly ER sheet has been revised. Following the revision of the ER sheet, MR and SDG impact tool has been updated for this monitoring period. Documentation provided by project participant Biogas Service Card, Updated MR version v3.1, ER version v3 and SDG Impact tool version v3 VVB assessment Date: 22/12/2023 PD has provided additional documents i.e., service card (maintenance record) which establish that two biogas plants mentioned above were operational during monitoring period. The House replied the same during onsite visit. PD has apportioned the ER appropriately. Hence, CL is closed.

#### Table 3. CAR from this verification

CAR ID	01	Section no.	E.5	Date: 24/07/2023				
Description of CAR								
Applied Methodology AMS-I.E, Version no. mentioned in the MR is not as per RCP PDD. PD is requested								
to rectify the same.								
Project par	rticipant response	Date: 22/08/2023						
Applied Methodology AMS-I.E, Version no. has been updated in the relevant sections as AMS-I.E, Version								
no. 12.								
Documentation provided by project participant								
Updated MR report version 2.0								
VVB asses	sment	Date: 08/09/2023						
PD has rectified the version of applied methodology as per RCP PDD throughout the revised MR. Hence,								
CAR is closed.								
CAR ID	02	Section no.	E.6.2	Date: 24/07/2023				
Description of CAR								
The value mentioned for annual consumption of wood per household per year for Jharkhand in section D.3								
of the MR is erroneous. PD is requested to rectify the same.								
Project par	Date: 22/08/2023							

 Annual fuel wood consumption for the Jharkhand state has been corrected as 0.27 tonne/HH/year.

 Documentation provided by project participant

 Updated MR report version 2.0

 VVB assessment

 Date: 08/09/2023

 PD has made the necessary changes in section D.3 of MR. Hence, CAR is closed.

#### Table 4.FAR from this verification

FAR ID	XX	Section No.		Date: DD/MM/YYYY				
Description of FAR								
Project part	Date: DD/MM/YYYY							
Documentation provided by project participant								
VVB assess	Date: DD/MM/YYYY							