VERIFICATION REPORT

GROUPED PROJECT FOR VIETNAM ENERGY EFFICIENCY PROGRAM

Document Prepared By

Carbon Check (India) Private Ltd

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Client	Sustainability Investment Promotion and Development Joint Stock Company (SIPCO)
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Summary:

- A brief description of the verification and the project

Verification: Sustainability Investment Promotion and Development Joint Stock Company (SIPCO) has appointed Carbon Check (India) Private Ltd, to carry out the first verification of the VCS project "Grouped projects for Vietnam Energy Efficiency Program" in Viet Nam, VCS ID: 3244. And fall under the sectoral scope 03. The verification is based on the desk review of the Monitoring report /01/, registered VCS PD /23/ and the corresponding validation report /23/, supporting emission reduction calculation spread sheets /02/ and other relevant supporting documents made available to the verification team by the project proponent accompanied by onsite audit and also onsite interviews. This verification involves the period of 30-Aug-2022 to 30-Jun-2023 (including both the days).

Project: The project "Grouped projects for Vietnam Energy Efficiency Program", is a grouped project which employs CDM methodology AMS-II.C. (Version 15.0) /B02/. The project involves distribution of Light Emitting Diodes (LEDs) for domestic lighting in Vietnam. The project result in reduction of CO2 emissions that are real, measurable and give long-term benefits to the mitigation of climate change. The geographical boundaries of Project Activity "Grouped projects for Vietnam Energy Efficiency Program" covers the whole country of Vietnam.

So, the grouped project activity reduces the use and demand for grid electricity consumption in comparison with the baseline scenarios when absence of this grouped project activity. And the project start date is 30-Aug-2022 which is the distribution date of the first LED in the grouped project.

- The purpose and scope of verification

Purpose: The purpose of the verification is to review the monitoring results and verify that monitoring methodology was implemented according to monitoring plan and monitoring data, used to confirm the reductions in anthropogenic emissions by sources is sufficient, definitive and presented in a concise and transparent manner. In particular, monitoring plan, monitoring report and the project's compliance with relevant VCS, UNFCCC and host party criteria are verified in order to confirm that the project has been implemented in accordance with previously registered design and conservative assumptions, as documented.

The grouped project activity reduces the use and demand for fossil fuels that would have been used to produce grid electricity as a means to supply electricity demand in the absence of this project activity. This directly leads to reduced greenhouse gas emissions.

The scope of the verification is:

• To verify the project implementation and operation with respect to the registered VCS PD

• To verify the implemented monitoring plan with the registered VCS PD and applied baseline and monitoring methodology.

• To verify that the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.

• To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.

• To verify that reported GHG emission data is sufficiently supported by evidence.

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

- The method and criteria used for verification.

(a) Desk review, involving:

(i) Review of the data and information presented to verify their completeness;

(ii) Review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;

(iii) Evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions;

(b) Onsite assessment involving:

(i) Assessment of the implementation and operation of the proposed VCS grouped project activity as per the registered VCS PD;

(ii) Review of information flows for generating, aggregating and reporting the monitoring parameters;

(iii) Interview with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered VCS PD;

(iv) A cross-check between information provided in the monitoring report and data from other sources such as inventories, purchase records, or similar data sources;

(v) A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the registered VCS PD and the selected methodology;

(vi) Review of calculations and assumptions made in determining the GHG data and emission reductions;

(vii) Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

- **The number of findings raised during verification**.

A risk-based approach has been followed to perform this verification. During the course of verification, a total of 06 findings were raised, which includes:

04 Corrective Action Request (CAR); 02 Clarification Requests (CLs).

All the raised findings were successfully resolved by the PP.

- **Any uncertainties associated with the verification**

The VCS MR /01/, emissions reduction calculations /02/ along with the supporting documents provided are considered to be in line with all the VCS requirements /B01/. The verification team has detected no further uncertainties or quality restriction.

- **Summary of the verification conclusion**

In CCIPL's opinion, the emission reductions reported for the "Grouped projects for Vietnam Energy Efficiency Program" in the monitoring report are fairly and correctly stated. CCIPL is therefore able to certify that the emission reductions from the "Grouped projects for Vietnam Energy Efficiency Program" during the period from 30-Aug-2022 to 30-Jun-2023, is amount 284,963 tCO_2 equivalent.

Request for issuance of VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS

Registration. The verification of reported emission reductions is based on the information made available to CCIPL and the engagement conditions detailed in this report.

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1 INTRODUCTION

1.1 Objective

Sustainability Investment Promotion and Development Joint Stock Company has appointed the VVB, Carbon Check (India) Private Ltd to perform a verification of the VCS Grouped Project "Grouped projects for Vietnam Energy Efficiency Program". This report summarizes the findings of verification of the project, performed on the basis of the VCS Program Guide (v4.4, updated 29-August-2023) /B01-b/, VCS Standard (v4.5, updated 29-August-2023) /B01-a/, Program Definitions (v4.4, updated 29-August-2023) /B01-e/, Registration & Issuance Process (v4.4, updated 31-August-2023) /B01-d/, VCS Validation and Verification Manual (v 3.2, dated 19-October-2016) /B01-c/. Verification is required for all VCS project activities intending to register a grouped project under the VCS program. This report contains the findings and resolutions from the verification of the grouped project. The purpose of a verification is to have a thorough and independent assessment of the proposed grouped project against the applicable VCS requirements, in particular, the project's baseline, monitoring plan and the project's compliance with relevant VCS and host Party criteria. These are verified in order to confirm that the monitoring report, as documented, is sound and reasonable and meets the identified criteria. Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of emission reductions, VCUs. The monitoring system is implemented and fully functional to generate emission reductions without any double counting, and the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reductions calculation.

1.2 Scope and Criteria

The verification of this project is based on the registered VCS Project Description /23/, the Monitoring Report of this monitoring period /01/, emission reduction calculation spread sheet /02/, supporting documents made available to the verifier and information collected through performing interviews and during the on-site assessment. Furthermore, publicly available information was considered as far as available and required.

CCIPL has employed a risk-based approach in the verification, focusing on the identification of significant risks and reliability of project monitoring and generation of emission reductions.

The verification is carried out on the basis of the following requirements (latest available on VCS website at the time of verification), applicable for this project activity:

- VCS Program Guide version 4.4, updated 29-August-2023
- VCS Standard version 4.5, updated 29-August-2023
- Program Definitions version 4.4, updated 29-August-2023
- Registration & Issuance Process version 4.4 updated 31-August-2023

- VCS validation and verification manual version 3.2, dated 19-October-2016
- CDM Methodology: AMS-II.C version 15.0 “Demand-side energy efficiency activities for specific technologies”/B02/
- Other relevant rules, including the host country legislation

The scope of this verification, by independent checking of objective evidence, is as follows:

- To verify that the project is implemented as described in the project description.
- To assess the project’s compliance with other relevant rules including the host country legislation.
- To assess the implementation of the monitoring plan content as mentioned in the registered VCS-PD /23/.
- To confirm that the monitoring system is implemented and fully functional to generate voluntary emission reductions (VERs/VCUs) without any double counting.
- To establish that the data reported are accurate, complete, consistent, transparent, and free of material error or emission by checking the monitoring records and the emissions reduction calculation /02/.
- To evaluate the GHG emissions reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement.
- To verify that reported GHG emissions data is sufficiently supported by evidence.
- The verification shall ensure that the reported emission reductions are complete and accurate to be certified.

The method and criteria used for verification consisted of the following phases:

1) Completeness check and desk review
2) On Site Visit
3) Resolution of outstanding issues and issuance of final verification report and applicable VCS Validation and Verification Deeds of Representation.

Carbon Check (India) Private Ltd conducts all its work under strict rules to safeguard impartiality and ensure the independence of the verification team. The verification does not provide any consulting or recommendations for the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

1.3 Level of Assurance

The verification report is based on the Monitoring report /01/, registered VCS PD and corresponding validation report /23/, supporting documents /03/-/28/ made available to the verifier and information collected through performing interviews.

The verification has been planned and organised to achieve a:

☒ Reasonable level of assurance

☐ Limited level of assurance

1.4 Summary Description of the Project

The project "Grouped projects for Vietnam Energy Efficiency Program", is a grouped project which employs of the CDM methodology; AMS–II.C: "Demand-side energy efficiency activities for specific technologies", version 15 /B02/. The grouped project involves distribution of Light Emitting Diodes (LEDs) in the whole country of The Socialist Republic of Viet Nam (hereafter called "Vietnam"). Each household has received maximum five LEDs under this grouped project. The project envisaged 6,000,000 LEDs will be distributed to grid connected households for domestic lighting during this grouped project. The LEDs are distributed free of cost to users as per registered VCS PD /23/.

The grouped project activity reduces the use and demand for grid electricity and therefore reduces the fossil fuels that would have been used to produce grid electricity in the absence of this project activity. This directly leads to reduced greenhouse gas emissions.

As per the VCS PD /23/, the Project activity will promote the dissemination of LEDs to replace inefficient incandescent bulb (ICLs). Lifespan of LED is more than 22,000 hours as per technical specification by the manufacturer /04/. Thus, under this grouped project, distributed LEDs under the project activity will replace existing ICLs i.e., 9W LED replaces 60W ICL as the lumen output is within the specified limit.

As per the registered VCS PD /23/, and interviews with the representative of project proponent, each LED under project is uniquely identifiable /10/ and would be assured that it is not part of any other VCS project. Each project activity instance is uniquely identifiable /10/ by unique system to avoid the double counting. The measures to avoid double counting is deemed acceptable to the verification team. Project proponent has also submitted declaration /15/ and /16/ to confirm the following:

- That the project is not creating any other form of environmental credit under any specific program.
- That the project has not or shall not claim carbon credits on any other scheme after Registration of the project under VCS.

The project proponent for the project activity is Sustainability Investment Promotion and Development Joint Stock Company, owns the rights to VERs /05/.

The scale of the "Grouped projects for Vietnam Energy Efficiency Program" is under "project category" and the total estimated volume of GHG emission reductions from PA 1 in Ha Tinh and Dien Bien province is 49,858 tCO_2/year as per the registered VCS PD and its corresponding validation report /23/.

A total of 5,999,464 LEDs was distributed under the grouped project until the end of this first monitoring period. The net emission reductions or removals for 14 project instances is 284,963 tCO_2e for this first monitoring period (30-Aug-2022 to 30-Jun-2023). The crediting period for the project activity is fixed type

(10 years 00 months), which is shorter than the life span of the LED[1]. The start date of the crediting period is 30-August-2022 and the end date is 29-August-2032.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The method and criteria used for verification:

The verification consists of the following three phases:

1. Completeness check and desk review of the validation report, monitoring plan, monitoring report, monitoring methodology, VCS PD, applicable tools in particular attention to the frequency of measurements, quality of metering equipment including calibration requirements, QA/QC procedures and other relevant documents.
2. Onsite interviews (including follow-up interviews with project stakeholders, when deemed necessary). The onsite interviews include the following:
    - An assignment of implementation and operation of project activity with respect to validated VCS PD
    - Review of information flows for generating, aggregating, and reporting the monitoring parameters.
    - Interview with relevant personals to determine whether the operational and data collection procedures are implemented and in accordance with the monitoring plan of the validated VCS PD,
    - Cross check of information and data provided in the monitoring report with purchase records or similar data sources.
    - Review of assumptions made in calculating the emission reductions (if any).
    - Implementation of QA/QC procedure in-line with the VCS PD and methodology requirements.
3. Resolution of outstanding issues and the issuance of the final Verification report and as applicable the VCS Verification Deed of Representation

Sustainability Investment Promotion and Development Joint Stock Company has appointed the VVB, Carbon Check (India) Private Ltd, to carry out the verification of the project “Grouped projects for Vietnam

[1] *As per registered VCS PD, the rated life of LED is 22,000 hours as technical specification by the manufacturer, assuming that project LED operated for an average 6 hours/day (based on baseline Survey) the LED has a lifetime of more 10.05 years.*

Energy Efficiency Program", with regards to the relevant requirements of VCS Standard Version 4.5 (updated 29-August-2023) /B01-a/.

The verification through the CCIPL includes a thorough and independent assessment of the proposed grouped project against the applicable VCS requirements, the project's used methodology AMS-II.C. V.15.0, sampling and survey standard v09.0, Implementation of project status, Data and Parameters monitored, monitoring plan and the project's compliance with relevant VCS and host party criteria. The verification involves assessment of the project and to confirm that the project meets the applicability conditions of the selected methodology, AMS– II.C: "Demand-side energy efficiency activities for specific technologies", version 15 /B02/ and assess the claims and compliance made in the MR /01/ without limitation on the information provided by the project participants.

The verification team of the CCIPL has applied a sampling approach, acceptance sampling for the onsite interviews as part of verification in accordance with the paragraph 26 of the Standard: Sampling and surveys for CDM project activities and programmes of activities, (Version 09.0). In accordance with the paragraph 28 of the sampling standard /B03-a/, acceptance sampling has been chosen by the verification team and accordingly steps listed in paragraph 29 and 39 of the sampling standards shall be followed.

Verification team has opted for AQL of 0.5 % and UQL of 20 %; producer risk of 10 % and consumer risk of 10 % in determining the VVB's sample size. Accordingly, the sample size to be interviewed for the above-mentioned parameters are 11, with acceptance number (c) as 0. The overall verification was conducted using CCIPL's internal procedures.

2.2 Document Review

During the document review, CCIPL has applied standard auditing techniques including but not limited to document reviews and onsite interviews, review of the applicable/applied methodology and its underlying formulae and calculations to assess the quality of information provided.

This report contains the findings and resolutions from the verification and a verification opinion on the proposed grouped project (new inclusion) thus confirming the project design as document is sound and reasonable and meets the stated requirements and identified criteria.

The VCS monitoring report/01/, emission reduction calculation spread sheet "02. ER calculation sheet_1st MR_LED project_20092023.xlsx" /02/, sampling size calculation, survey summary, Average annual operating hours of project LEDs ($O_{i\ project}$), Number of group i project LEDs that are operational during time interval 't' ($n_{i,operational}$), and supporting documents related to the project monitoring report for this first verification and net emission reduction/removal were reviewed as per VCS standard version 4.5 /B01-a/ requirements. The desk review included:

- A review of the data and information presented to verify completeness and consistency in accordance with VCS standard version 4.5 requirements.
- A review of the Monitoring report /01/, data monitored and monitoring methodology, paying particular attention to the applicability conditions of the methodology, sampling plan and size,

survey summary and net emission reduction for the considered monitoring period by the distribution of LEDs in Viet Nam.

- A review of the monitoring plan and the project's compliance with relevant VCS criteria.
- An evaluation of data management and the QA/QC system in the context of their influence on the generation and reporting of ERs.

The monitoring report /01/ was initially reviewed, and CCIPL requested the PP to present the supporting information and documents /03/-/28/. The documents were reviewed by CCIPL. Through the process of the verification, the revised monitoring report and the supporting documents were evaluated to confirm the actions taken by the PP to the CARs and CLs issued by the verification team.

The list of documents referred during the course of this verification has been provided in Appendix 03.

2.3 Interviews

The table below describes the on-site interview process and further identifies personnel, including their roles, who were interviewed and/or provided information additional to that provided in the monitoring report /01/ and any supporting documents.

No.	Interviewee			Date	Subject	*Team member*
	Last name	First name	Affiliation			
1.	Ngo	Thị Viet Anh	SIPCO (PP)	04 to 06-September-2023	Project implementation and operation, monitoring procedure, data and information flow, Roles and responsibility, Quality Assurance – Management and operating system, Distribution records, Survey records, Training Qualification and Training, CER calculation and completeness of monitoring report, compliance of monitoring plan with monitoring methodology and latest PD.	Nguyen H.N. Trang
2.	Nguyen	Thi Nhu Quynh	SIPCO (PP)	04 to 06-September-2023		
3.	Nguyen	Doan Thinh	SIPCO (PP)	04 to 06-September-2023		

4.	Le	Thi Thuy	End-user	04 to 06-September-2023	To check: Average annual operating hours of project LEDs ($O_{i\ project}$) Number of group i project LEDs that are operational during time interval 't' ($n_{i\ operational}$)	Nguyen H.N. Trang
5.	Lo	Thi Lan	End-user	04 to 06-September-2023		
6.	Tran	Thi Sang	End-user	04 to 06-September-2023		
7.	Phan	Thi Sang	End-user	04 to 06-September-2023		
8.	Luu	Thi Cu	End-user	04 to 06-September-2023		
9.	Truong	Thi Duong	End-user	04 to 06-September-2023		
10.	Trieu	Thi May	End-user	04 to 06-September-2023		
11.	Chao	Lo May	End-user	04 to 06-September-2023		
12.	Hau	Van Dau	End-user	04 to 06-September-2023		
13.	Trieu	Mui May	End-user	04 to 06-September-2023		
14.	Do	Thi Dao	End-user	04 to 06-September-2023		
15	Trieu	Thi Nga	End-user	04 to 06-September-2023		
16.	Tran	Thanh Huyen	Provincial Women Union	04 to 06-September-2023	Project implementation and operation, monitoring procedure, data and information flow, Stakeholder	Nguyen H.N. Trang
17.	Le	Thi Hanh	District Women Union	04 to 06-September-2023		

18.	Tran	Thi Kien	Commune Women Union	04 to 06-September-2023	ongoing consultation, baseline scenarios, baseline survey, monitoring survey, grievance mechanism procedure, Impact on health, income, etc, social & environmental	
19.	Nguyen	Thi Thu Hien	Tram Tau Dist. Women Union	04 to 06-September-2023		
20.	Hang	Thi My	Xa Ho commune Women Union	04 to 06-September-2023		
21.	Nguyen	Thi Hong Xuyen	Yen Binh Dist. Women Union	04 to 06-September-2023		
22.	Dao	Phuong Thuy	Province Women Union	04 to 06-September-2023		
23.	Dao	Thi Thanh	Dist. Women Union	04 to 06-September-2023		
24.	Ma	Thi Thu	Dist. Women Union	04 to 06-September-2023		
25.	Vang	Thi Chu	Commune Women Union	04 to 06-September-2023		

2.4 Site Visits

A site visit to the project activity was undertaken by team leader from 04-September-2023 to 06-September-2023 to assess the implementation and operation of the project activity and to review evidence, and interview key personnel to confirm evidence associated with the data generation, aggregation, and calculation and reporting of the monitoring parameters.

The site visit addressed:

- An assessment of the project implementation and operation as per the registered VCS PD /23/ (including physical inspection to confirm physical existence and operation of project components).
- Review of information flows for generating, aggregating, and reporting the monitoring parameters/data.
- Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the monitoring report /01/.

In line with paragraph 26 of the Sampling Standard, the verification team has applied acceptance sampling approach through on-site interviews on the sampling survey as part of verification. The project participant had applied sampling approach. A representative Monitoring survey /14/ was conducted by the representatives of Project participant. The verification team has chosen acceptance sampling in accordance with paragraph 28 of the sampling standard /B03-a/.

Applying paragraph 39 of the sampling standard, version 09 /B03-a/, a sample size of 11 households was chosen with acceptance number (c) as 0. A sample size of 11 was determined, based on an AQL of 0.5% and UQL of 20%, producer risk 10% and consumer risk 10%. Acceptance number thus determined for the sample is 0. VVB also interviewed end users for each parameters $O_{i,project}$ and $n_{i,operational}$, fixed ex-ante which is based on the baseline survey.

The information provided in the sampling survey data /14/, has been cross checked during the onsite interviews conducted. As a part of acceptance sampling, the verification team could confirm the User habit survey data with no discrepant records. Thus, PP's set of records has been accepted in line with § 33 of the sampling standard, version 09 /B03-a/.

The verification team carried out site interviews with representatives of PP in order to assess the information included in the project documentation and to gain additional information regarding the compliance of the project with the relevant criteria applicable for the VCS.

2.5 Resolution of Findings

This section summarizes the findings from the verification of the project activity. In this section the findings from the document review, assessments and onsite interviews are provided.

Material discrepancies identified in the course of the verification are addressed either as CARs, CLs or FARs.

Corrective action requests (CAR) are issued, where:

i. Mistakes have been made with a direct influence on project results requiring adjustments of the VERs/VCUs monitoring report.
ii. Applicable methodological specific requirements have not been met.

A Clarification request (CL) may be used where additional information is needed to fully clarify an issue or where the information is not transparent enough to establish whether a requirement is met.

The verification team identified 04 CARs and 02 CLs. All CARs and CLs raised by CCIPL during this verification have been resolved. If this was not completed, the ERs cannot be certified and recommended for issuance to the VCS Registry.

2.5.1 Forward Action Requests

Forward Action Request (FAR) is to be raised when the monitoring and reporting require attention and/or adjustment for the next verification period. FARs does not relate to VCS requirements for issuance of ERs achieved during subject monitoring.

No Forward action request has been raised during the verification.

2.6 Eligibility for Validation Activities

Validation/Verification body (VVB), Carbon Check (India) Private Ltd. holds accreditation for verification for the relevant sectoral scope 03 and is eligible for validation/verification for the project activity.

Please refer to the link below.

https://verra.org/project/carbon-check-india-private-ltd/

3 VALIDATION FINDINGS

3.1 Methodology Deviations

N/A

The UNFCCC methodology of AMS-II.C; "Demand-side energy efficiency activities for specific technologies", version 15/B02/. And its related tools are applied as they are without any deviation from methodology. Hence, it is clear that the no methodology deviation was identified during the current monitoring period.

3.2 Project Description Deviations

N/A.

There haven't been any change on project's design and characteristics comparing with the registered VCS PD. The project activity follows the scenario described at the Project Design Document and the validation report.

The verification team of CCIPL assess the methodology application, additionality and the baseline of project activity and find consistency, no deviation and remain in compliance with the VCS rules as per registered VCS PD /23/ and MR /01/.

3.3 New Project Activity Instances in Grouped Projects

The grouped project (the project) is the dissemination of LEDs to replace inefficient ICLs. A total of 5,999,464 LEDs were distributed by the end of this monitoring period. As described in the registered VCS PD /23/, for each new instance (distribution of LEDs under project activity) the eligibility criteria below are confirming the new project activity instances in the assessment below:

The number of new project activity instances added to the project in this verification period is 13 i.e., PA002, PA003, PA004, PA005, PA006, PA007, PA008, PA010, PA011, PA012, PA013, PA014: The sampling process for all is as per sampling standard v09.0 /B03-a/. The eligibility criteria of the Project activity instance were established at the group project validation in the registered VCS PD /23/.

- Quality and completeness of evidence, data and documentation relating to the new project activity instances

The assessment team has reviewed the evidence collected by the PP for each of the PA included in this verification and confirmed the following:

- Implementation and operational status of the PA
- Monitoring and data collection
- Flow of information; generating, aggregating and reporting of the monitoring parameters
- Conformance of the new project activity instances with the eligibility criteria set out in the project description.

The verification team assessed the appropriateness of new project activity instances (added to the grouped project) against the requirements of the following key elements defined in section 3.2.11 of the Validation and Verification Manual (version 3.2):

Table 1: Eligibility criteria for new project activity instances

No.	Eligibility criterion - Category	How the new project activity instances to comply	VVB Assessment
1.	Meet the applicability conditions set out in the methodology applied to the project.	The new project activity instances will meet all applicability conditions of AMS-II.C- "Demand-side energy efficiency activities for specific technologies; Version 15.0"	The verification team reviewed the registered VCS PD/23/ and the MR /01/ of the project and confirms that all the applicability criteria as mentioned in the section 3.2 of the final PD is met by the PI1 & 13 new project activity instances and the same has been cross checked by interviewing the PP. Thus, the criteria have met for all the project activity instances added in this monitoring period.

2.	Use the technologies or measures specified in the project description.	Only LEDs that confirm with the grouped project description are to be distributed in the project. Only PIs with service level (e.g. rated capacity or output) between 90% and 150% of the service level of the baseline equipment shall be included.	The Validation team reviewed the manufacturer specification/ QCERT Testing, and inspection company Limited /04/ of the LEDs provided by PP and onsite interviews analyzed that the project LEDs will replace existing ICL under this grouped project. Moreover, the LEDs technical specification is also provided in section 1.11 of the VCS PD /23/. Thus, the eligibility criteria have been met for all PI1 & 13 new project activity instances under this grouped project.
3.	Apply the technologies or measures in the same manner as specified in the project description	The LED bulbs distributed will adhere to the grouped project description and shall replace inefficient ICLs.	The Validation team reviewed the manufacturer specification/ QCERT Testing and inspection company Limited /04/ of the LEDs provided by PP and onsite interviews analyze that the project LEDs will replace existing ICL under this grouped project. Moreover, the LEDs technical specification is also provided in section 1.11 of the VCS PD /23/. Thus, the eligibility criteria have been met for all PI1 & 13 new project activity instances under this grouped project.

4.	Are subject to the baseline scenario determined in the project description for the specified project activity and geographic area.	The new project activity instances will be installed within Vietnam only and subject to the same baseline scenario determined in section 3.4.	The validation team reviewed that the baseline scenario is appropriately described in section 3.4 and in line with the VCS requirements. The same was confirmed during the onsite interview. Thus, the eligibility criteria have been met for all PI1 & 13 new project activity instances under this group project
5.	Have characteristics with respect to additionality that are consistent with the initial instances for the specified project activity and geographic area.	This Grouped project shall comply with all the additionality conditions listed in section 3.5 and should be clearly defined on the monitoring reports.	The verification team, through document review and onsite interviews analyzed that PP has demonstrated additionality as per the 10 (a) of Tool 21 "Demonstration of additionality of small-scale project activities" (version 13.1). This has also been mentioned in the registered VCS PD. Furthermore, validation team has cross checked the beneficiary agreement between SIPCO and end user /05/ and Declaration letter from PP /07/ provided by the PP to confirm that the LED is distributed free of cost to the end users, the household. The PP has no other income from VER revenue. Thus, the eligibility criteria have been met for PI1 & 13 new project instances under this grouped project.
6.	Conditions that avoid double counting of emission reductions.	The new project activity instances will: 1. Apply a unique system (i.e. conformity letter) for LED Lamps in each	Each LED distributed in project activity instance is uniquely identifiable and not part of any other CDM registered project or CPA of other PoA and not a part of

		project instance, assigning a unique ID to each lamps and allowing to clearly identify each LED lamp and to which project instance it belongs. 2. Each LED lamp installed will include project instance assignment and will have corresponding end user details (i.e. name, address). This data will be recorded as part of the beneficiary agreement and Project database. The project proponent has an agreement in place with residents who use LED lamps in the project instance in which the owner transfers the rights to the emissions reductions exclusively to the project proponent as part of the Carbon Rights Waiver within the Beneficiary agreement.	any other standard. The LED will carry unique IDs comprised of the project instance number, LED number and household subscribed to each LED. The same has been crosschecked by the beneficiary agreement /05/, the photographs of the distributed LED provided by the PP /03/ and onsite observation. Thus, the eligibility criteria have been met for PI1 & 13 new project activity instances under this grouped project.
7.	Where a capacity limit applies to a project activity included in the project, no project activity instance shall exceed such limit. Further, no single cluster of project activity instances shall exceed the capacity limit, determined as follows: 1) Each project activity instance that exceeds one	The capacity limit applies to the methodology AMS II.C version 15.0 used. Therefore, no project instance shall exceed the applicable limit which is 15 MW or 45 MWth for type I projects, 60 GWhe/y or 180 GWhth/y for type II projects, and 60,000 t/y for type III projects. The LED bulbs used in PIs would confirm that the	Since the annual energy saving each LED is approximately 0.0118 GWth/y, the capacity of project activity instance is well below the 1% of the threshold limit. Therefore, it is not required to divide any project activity instance into clusters. The energy saving of each project instances does not exceed the applicable limit, which is 60 GWh/year of the type III project limits as per verified in the ER sheet /2/.

	percent of the capacity limit shall be identified. 2) Such instances shall be divided into clusters, whereby each cluster is comprised of any system of instances such that each instance is within one kilometer of at least one other instance in the cluster. Instances that are not within one kilometer of any other instance shall not be assigned to clusters. 3) None of the clusters shall exceed the capacity limit and no further project activity instances shall be added to the project that would cause any of the clusters to exceed the capacity limit	energy saving per lamps is less than 1% of 60 GWh limit (i.e. 600 MWh). Further, since the energy saving of each lamp is less than 1% of capacity limit there is no need to divide the PI into clusters.	Furthermore, the verification team reviewed the ER spread sheet /02/ and conducted onsite interviews. PP ensures that no project activity instance will be within one kilometer of another project activity instance which is deemed acceptable as per the VCS Program Definitions and VCS Standard /B01/. The maximum number of LEDs that can be distributed in a single village will not exceed the one percent of capacity limit capacity under project activity instance. Therefore, it is not required to divide any project activity instance into clusters. Thus, the eligibility criteria have been met for the all the project activity under this grouped project.
8.	Target group	Each project instance will target end users which includes households who use incandescent lightbulbs.	The verification team on the basis of review of the registered VCS PD /23/, MR /01/ beneficiary agreement signed by the end users /05/ and based on the onsite interview confirms that all PI1 & 13 new project instances will target end users which includes households who use incandescent lightbulbs.
9.	Occur within one of the designated geographic areas specified in the project description.	New project activity instances will be located within the geographic boundaries of Vietnam. The new project instances geographic location will be defined in the monitoring reports.	The verification team through review of the section 1.11 of the registered VCS PD/23/, MR /02/ onsite interviews for this project activity, the verification team is able to confirm that the PI1 & 13 new project activity instances are located in the designated geographical area (Vietnam).

			Thus, based on the above assessment, the verification team concludes criteria has been met for the PI1 & 13 new project activity instances under this grouped project.
10.	Comply with at least one complete set of eligibility criteria for the inclusion of new project activity instances. Partial compliance with multiple sets of eligibility criteria is insufficient	New project activity instances must comply set of eligibility criteria for the inclusion of new project activity instances in the table	On the basis of review of the VCS PD /23/, MR /01/ and interview with the PP, validation team confirms that PI1 & 13 new project instances comply set of eligibility criteria as mentioned in section 1.3 and 1.4 of the registered VCS PD /23/ which is also in line with the requirement of VCS Standard version 4.5
11.	Be included in the monitoring report with sufficient technical, financial, geographic and other relevant information to demonstrate compliance with the applicable set of eligibility criteria and enable sampling by the validation/verification body	New Project Activity Instances must comprise monitoring plans that outline the technical, financial, geographic and other relevant information to enable sampling by the validation/verification body.	Validation team on the basis of review of the VCS PD /23/, MR /01/, baseline surveys confirms that PI1 & 13 new project instances comprise monitoring plans that outline the technical, financial, geographic and other relevant information to enable sampling by the VVB.
12.	Be validated at the time of verification against the applicable set of eligibility criteria	New project activity instances must be validated at the time of verification against the applicable set of eligibility criteria	All PI1 and the 13 new project instances under the project was validated at the time of verification against the applicable set of eligibility criteria.
13.	Be eligible for crediting from the start date of the instance through to the end of the project crediting period (only).	New PI within this grouped project shall be eligible for crediting from its start date through to the end of the project crediting period.	The verification team on the basis of the review of the VCS PD /23/, MR /01/, first beneficiary agreement signed by the end user /05/, distribution database /19/ and onsite interview with the PP confirms that PI1 & 13 new project instances are eligible for crediting

			from its operating start date, which is August 30th, 2022, through to the end of the project crediting period and the same is as per the VCS requirement.
14.	Have evidence of project ownership, in respect of each project activity instance, held by the project proponent from the respective start date of each project activity instance (i.e., the date upon which the project activity instance began reducing or removing GHG emissions)	New PIs will demonstrate ownership by the project proponent, from the start date of the PI	The verification team through review of the VCS PD /23/, End user declaration/ undertaking template/ beneficiary agreement /05/ (relinquishment of VERs from end user to PP) upon registration of end-user in the database; the verification team is able to confirm that all end users under the new project instances have signed the undertaking at the time of its registration process mentioning clearly that right to VER is secured by implementer. Thus, based on the above assessment, verification team concludes criteria has been met for the 13 new project activity instances and PI 1 under this grouped project.
15.	Have a start date that is the same as or later than the grouped project start date	Only PIs having a start date that is the same as or later than the GP start date will be included in the grouped project. The start date of GP is the date of distribution of first unit as per section 1.8 of this document. And subsequent additions will have start date after GP start date only	The verification team on the basis of the review of the VCS PD/23/, onsite interview with the PP and the review of the first beneficiary agreement signed between end user and PP /05/ confirms that the start date of PI1 is 30-August-2022, which is same as the start date of the grouped project as mentioned in the VCS PD/23/. The start date of each new project instances is later than the grouped project start date. Thus, based on the above assessment, the verification team concludes criteria has been met

			for the PI1 & 13 new project activity instances under this grouped project.
16.	Not leave one VCS project and subsequently enroll in another VCS project.	All of new PIs within this grouped project is a new activity and shall not leave one VCS project and subsequently enroll another VCS project	On the basis of the review of the declaration letter signed by the PP, distribution database, beneficiary agreement and interview with the PP validation team confirms that PI1 & 13 new project instances distributed LEDs and collect ICLs in Vietnam. It is a new activity and do not leave one VCS project and subsequently enroll another VCS project.

Based on the above assessment the verification team confirms that inclusion of project activity instances in the grouped project is valid.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:				
Audit history	**Audit type**	**Period**	**Program**	**Validation/verification body name**	**Number of years**
	Validation	30-May-2023 *(date of approval)*	VCS	Carbon Check (India) Private Ltd.	N/A
	Verification	From 30-Aug-2022 to	VCS	Carbon Check (India) Private Limited	0.84 year

		30-Jun-2023			

On the basis of reviewing the registered VCS Project Description /23/, the MR of this verification period /01/, VERRA registry, and supporting documents made available to the verifier and information collected through performing interviews during the on-site assessment to confirm the audit history and project's compliance to the requirement of Rotation of validation/verification bodies as per 4.1.27 of VCS Standard, version 4.5.

Double counting and participation under other GHG programs	On the basis of reviewing the registered VCS PD /23/ & validation report /23/, MR /1/, distribution database & beneficiary agreement /05/ and interviews with the representative of project proponent, each ICS under project is uniquely identifiable /10/ and would be assured that it is not part of any other VCS project. Each project activity instance is uniquely identifiable /10/ by unique system to avoid the double counting. Measures to avoid double counting are deemed acceptable to the verification team. Through interviews with PP during onsite assessment, the verification team can confirm that all the project instances have not participated or been rejected under any other GHG Programs and emission allowance trading program including renewable energy certificates (RECs) since validation. All the project instances have applied only under VCS for registration and the same has been cross verified by the verification team by exploring /checking/visiting other GHG programs like, GS, CDM, GCC etc. or non-GHG program like REC, iRECs, etc.
No double claiming with emissions trading programs or binding emission limits	All the project instances have applied only under VCS for registration. It has been cross verified by the verification team by exploring /checking/visiting other GHG programs like, GS, CDM, GCC etc or non-GHG program like REC, iRECs, etc. So, there would be no double claiming with other emissions trading programs. The Project proponent has also submitted declaration /16/ to confirm that all the project instances have not or shall not claim carbon credits on any other scheme after Registration of the project under VCS. In addition, the verification team also reviewed the local regulation and confirmed that there is no system that creates binding limits on the total GHG emissions or emissions per unit of output or activity from a site, company, sector, or region of this project activity but does not include emissions trading.

No double claiming with other forms of environmental credit	All the project instances have applied only under VCS for registration. It has been cross verified by the verification team by exploring /checking/visiting other GHG programs like, GS, CDM, GCC etc or non-GHG program like REC, iRECs, etc. So, there would be no double claiming with other forms of environmental credit. The Project proponent has also submitted declaration /15/ to confirm that all the project instances have not or shall not double claiming with any other form of environmental credit under any specific program.
Supply chain (scope 3) emissions double claiming	The project is in supply chain involved SMK Vietnam JSC and Rang Dong Light Source & Vacuum Flask JSC as the producer & SIPCO as the LEDs sponsor and distributor & household as the end-users. Thus: • The SIPCO (as the distributor) has an agreement in place with end-users who use LEDs in the project instances in which the owner transfers the rights to the emissions reductions exclusively to the SIPCO as part of the Carbon Rights Waiver within the Beneficiary agreement /05/. The verification team during onsite assessment also interview with different end-users and confirmed that they have agreed to transfer all the carbon rights to SIPCO. • As the sponsor and distributor of LEDs for end-users, SIPCO also official informed SMK Vietnam JSC and Rang Dong Light Source & Vacuum Flask JSC via email that VCU can be issued for the LEDs usage associated with LEDs manufactured by SMK Vietnam JSC and Rang Dong Light Source & Vacuum Flask JSC, distributed by SIPCO under this project which have SIPCO as a sole project participant. This statement also was publicly announce on their website https://carbonvietnam.com/public-announcement-on-grouped-projects-for-vietnam-energy-efficiency-program-vcs-project-id-3244) In conclusion, the PP has implemented all possible measure to avoid potential risk of Scope 3 emissions double claiming. Therefore, the verification team accept it.

Sustainable development contributions	The project activity has distributed 5,999,464 LEDs to households in this monitoring period to replace one to one 5,999,464 ICLs. This activity helps reduce the total grid electricity consumption which dominated by fossil fuel and therefore save 284,963 tCO_2 of emission reduction and thus contributes to SDG Target 7.1[2], 11.6[3]; 12.5[4] and SDG 13[5]. This was verified during onsite interview with stakeholders, distribution database /19/, MR /1/ & excel calculation sheet /2/. The project also generated employment opportunities for distribution, manufacturing of LEDs and post-sale operation & maintenance of LEDs and thus contribute to SDG Target 8.3[6]. This is confirmed by the on-site interview with different stakeholders and registered VCS PD /23/, MR & excel calculation sheet /2/. On the basis of that, the verification team can confirm that the project has implemented the activities that result in the SD contributions described in the MR /01/.
Additional information relevant to the project	On the basis of reviewing registered VCS PD & validation report /23/, MR /01/, the verification team can confirm no sensitive information has been excluded from the public versions of project documents.

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion

[2] SGD Target 7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services.

[3] SDG Target 11.6 - By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management.

[4] SDG Target 12.5 - By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

[5] SDG 13 - Take urgent action to combat climate change and its impacts

[6] SDG Target 8.3 - Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services.

Stakeholder identification	On the basis of reviewing registered VCS PD /23/ and MR /01/, the verification team found that the stakeholder identification process is in place to distinguish which parties/ entities/ individuals are classified as stakeholders in this project activity. All the stakeholders who can influence or directly/ indirectly affected by the implementation of this project activity have been correctly identified. The verification team has cross-checked with the local stakeholder participant list, consultation meeting records /08/ and finds all the identified stakeholders has been involved by the project activity in the consultation process and therefore accepts this.
Legal or customary tenure/access rights	N/A. The project activity only involves distribution of LEDs to households free of charge /07/ and the households can decide to receive them or not as per beneficiary agreement /05/. It will not involve any legal or customary tenure/access rights to territories and resources. This has been verified during onsite interview with different stakeholder.
Stakeholder diversity and changes over time	On the basis of reviewing registered VCD PD & validation report /23/, MR /01/, local stakeholder consultation supportive document /08/ and ongoing communication report /22/, onsite observation and interview with different stakeholders, the verification team found insignificant change in stakeholder diversity. There is no change in entities involved in this project activity includes Women Union, local government authority, local manufacturers, local vendor, etc. Their structure, functionality and activity are still the same. There might be changes in the personnel, but it doesn't impact their opinion & comments for the project activity on behalf of their organization as confirmed onsite. For the end-user, during onsite visits, the verification team has observed that it is still the same group. They confirmed that there was a slight improvement in terms of income & livelihood and well-being, but this did not bring any significant change in their social status and their opinions.
Expected changes in well-being	The project activity is contributing to the reduction in GHG emission due to reduction in use of ICLs as verified by onsite observation, reviewing of supportive documents include registered VCS PD /23/, MR /01/, excel calculation sheet /02/.

	The usage of LEDs instead of ICLs can prevent the risk of glare, heat emission, fire and explosion. In addition, the project activity help prevent the risk of improper disposal of ICLs to the environment which can create adverse impact to human and ecosystem. Overall, the verification team found the project activity has contributed to the increase of local well-being.
Location of stakeholders	All the stakeholders (e.g., Women Union, local government authority, NGO, end-users, etc) are operating and living in the area of project activity which is in the geographical boundary of Vietnam country. This was verified and confirmed during onsite observation and interview with different stakeholder.
Location of resources	The location of resources (grid electricity, LEDs, etc.) is also in the area of project activity which is in the geographical boundary of Vietnam country. This was verified and confirmed during onsite observation and interview with different stakeholder.

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	On the basis of reviewing the registered VCD PD & validation report /23/, MR /01/, local stakeholder consultation supportive document /08/, ongoing communication report /22/, and interviews with the PP and stakeholders during the audit, it confirms that the project has a stepwise mechanism for the ongoing communication. SIPCO engages with stakeholders (Women's Union) through annual reports, inspection visit, group discussion & also SIPCO's social media communication. The details of ongoing communication activity are mentioned in the MR /01/ & annually ongoing communication reports /22/. The verification team reviewed and verified those during onsite interview and cross-checked with registered VCS PD /23/ & MR /01/ and confirms the procedure and method for engagement.
Date(s) of stakeholder consultation	10-July-2023. This is the date of SIPCO send the communication report /22/ of this monitoring period to Women Union. Women's Unions are large organizations at all administrative levels (Commune, District, Province,

	State) through their network has communicated with other stakeholders of the project activity. This was verified by reviewing the communication reports /22/ & onsite interview with Women Union and different stakeholders.
Communication of monitored results	The monitored results have been properly documented in the communication report /22/ sent to Women Union. It was cross-checked by interviewing with Women Union onsite.
Consultation records	The verification team confirmed the method for documenting the outcomes of local stakeholders' ongoing consultation and account of all inputs received through reviewing of communication reports /22/, consultation records /08/ & onsite interview.
Stakeholder input	There are several feedbacks was seen in the annual ongoing communication reports & records /22/ sent to donors, however, those were all positive feedbacks, no negative comment. All local end-users are satisfied with the LEDs and confirmed that their monthly electricity bills were reduced. This has been verified by reviewing all the forms and confirmed this has been reported correctly in the MR.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	On the basis of onsite interview, reviewing of registered VCS PD & validation report /23/, MR & local stakeholder consultation documents /08/ and ongoing communication report /22/ the verification team confirmed that local governmental authority includes Commune People's Committee are well-informed about this project activity in a series of consultation meetings and totally support it as verified by local stakeholders' consultation meeting records /08/ /22/ & onsite interview. In addition, LED distribution is a completely voluntary activity and households in participating villages are free to choose whether they take part or not as per beneficiary agreement /19/. Free, prior, and informed consent takes place before installation.
Outcome of FPIC discussion	As verified through local stakeholders' consultation meeting records /08/ /22/ & onsite interview, the project activity has consent from stakeholders.

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	There is no grievance received during this verification period.
Grievance redress procedure	On the basis of onsite interview, reviewing of registered VCS PD /23/, MR /01/ the verification team confirms on the grievance redress procedure and method for documenting, acknowledge, investigate and address the grievance and account of all grievance received reported in the MR /01/. During onsite visit, the verification team confirms that they end-users and stakeholders know how to raise and send their grievance, but no grievance was made during this monitoring period. Hence the verification team deemed the grievance redress procedure including the grievance record as appropriate.

4.2.5 Public Comments

Not applicable. No public comments were received for this project activity during this monitoring period.

4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	No risk was identified to stakeholder participation as verified during onsite visit & interviewed with stakeholder, review of the registered VCS PD /23/ and MR /01/. There is no trade-off or any negative impact to their livelihood, land, food, etc when receiving the LEDs.
Working conditions	No risk was identified in working condition as verified during onsite visit & interviewed with stakeholder, review of the registered VCS PD /23/ and MR /01/. The PP has employed all their staff in compliance with per Viet Nam's Labor Law.
Safety of women and girls	No risk was identified in safety of women and girls as verified during onsite visit & interviewed with stakeholder, review of the registered VCS PD /23/ and MR /01/.

	The implementation of this project activity is also in partnership with Women Union, a socio-political organization that represents and defends the legal and legitimate rights and interests of Women in Vietnam. Therefore, they would ensure there is no risk of safety of women and girls during project implementation as per confirmed during onsite interview.
Safety of minority and marginalized groups, including children	No risk was identified in safety of minority and marginalized groups, including children as verified during onsite visit & interviewed with stakeholder and review of the registered VCS PD /23/ and MR /01/. The implementation of this project activity is also in partnership with Women Union, a socio-political organization that represents and defends the legal and legitimate rights and interests of Women in Vietnam. Their policies also include childcare, education, community services, to health education. They would ensure there is no risk of Safety of minority and marginalized groups, including children as per confirmed during onsite interview.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	No risk was identified in any additional pollutants in comparison with the baseline scenario. On the basis of review of the registered VCS PD /23/ and MR /01/, onsite observation and interview with local stakeholder, the project activity has a positive impact as it helps reduce grid electricity consumption and therefore GHG emission. PP also implements the proper treatment of collected ICLs to prevent any improper disposal of hazardous materials into the environment as verified by reviewing the ICLs treatment certificate & video /26/.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	On the basis of review of the registered VCS PD /23/ and MR /01/, onsite interview and observation, the verification team found no discrimination and sexual harassment. The PP also have company code of conduct /25/ which indicated clearly that they have no tolerance for any discrimination and sexual harassment.

Management experience	On the basis of review of the registered VCS PD /23/ and MR /01/, onsite interview and observation, they verification team confirmed that SIPCO has been involved in many similar carbon projects and have experience in community engagement. Their management team have more than 10 years' experience in this topic as verified by their business license /25/ and historical projects.
Gender equity in labor and work	On the basis of review of the registered VCS PD /23/ and MR /01/, onsite interview and observation, the verification team found that PP is continuing to promote gender equality in labor and work. The PP have company code of conduct /25/ which indicated clearly that they have no tolerance for any discrimination especially in gender. They also implement this project activity in partnership with Women Union, a socio-political organization that represents and defends the legal and legitimate rights and interests of Women in Vietnam. The Women Union strives for the advancement of women's development and gender equality, representing Vietnamese women to the state and counselling on the protection of women's rights as per confirmed during onsite interview.
Human trafficking, forced labor, and child labor	On the basis of the registered VCS PD /23/ and MR /01/, onsite interview and observation, the verification team found no sign of human trafficking, forced labor and child labor. This is also prohibited as per Vietnam Labor Law and the PP has employed all their staff in compliance with Viet Nam's Labor Law as verified by company code of conduct /25/ & interview with PP during onsite visit.

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	On the basis of the registered VCS PD /23/ and MR /01/, onsite interview and observation, the verification team found that project always respects and promotes the human rights in line with applicable international human right. All the stakeholders can voluntarily participate in the project activity. All the information was shared transparently for all stakeholder and end-users through local stakeholder consultation /08/ and ongoing communication /22/.

	The contractors/ workers who participated in this project activity also need to follow & comply the PP code of conduct /25/ which also have a rule related to this matter.

4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	On the basis of the registered VCS PD & validation report /23/, MR /01/, onsite interview and observation, the verification team confirmed that the project activity does not have any activity which bring any negative impact to the indigenous peoples and cultural heritage.

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	On the basis of the registered VCS PD & validation report /23/ and MR /01/, onsite interview and observation, the verification team confirmed that the project activity does not have activity which disputes over rights to territories and resources
Respect for property rights	On the basis of the registered VCS PD & validation report /23/ and MR /01/, onsite interview and observation, the verification team confirmed that the project activity does not involve any property right removal/relocation of property rights holders.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	Not applicable as the project activity does not involve any property right.

Benefit sharing during the monitoring period	Not applicable as the project activity does not involve any property right.

4.2.8 Ecosystem Health

On the basis of reviewing the registered VCS PD & validation report /23/, MR /01/, observation & interview onsite with different stakeholder, the verification team confirmed that the implementation of the grouped project does not impose any severe impacts on the ecological system in the surrounding areas. In contrast, this project activity will help in reducing the consumption of fossil fuel by reducing grid electricity consumption thereby reducing GHG emission. Therefore, it has no impact on ecosystem health, so this section is not applicable.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk identified at validation
Soil degradation and soil erosion	No risk identified at validation
Water consumption and stress	No risk identified at validation
Usage of fertilizers	No risk identified at validation.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	On the basis of reviewing the registered VCS PD & validation report /23/, MR /01/, observation & interview onsite with different stakeholder, the verification team confirmed that the implementation of the grouped project does not have any adversely impact habitats for rare, threatened, or endangered species.

4.2.8.2 Introduction of Species

Not applicable.

On the basis of reviewing the registered VCS PD & validation report /23/, MR /01/, observation & interview onsite with different stakeholders, the verification team confirmed that the implementation of the grouped project does not introduce any species to the ecosystem.

4.2.8.3 Ecosystem conversion

Not applicable.

On the basis of reviewing the registered VCS PD & validation report /23/, MR, observation & interview onsite with different stakeholders, the verification team confirmed that the implementation of the grouped project does not involve any ecosystem conversion.

4.3 Accuracy of Reduction and Removal Calculations

The equations and choices provided in the methodology and all other methodological tools are correctly quoted in the MR /01/. The emission reductions of the project instances of the grouped project and project activity instance are calculated using the formulae mentioned in the applied methodologies; AMS-II.C, version 15.0 /B02/.

The verification team has reviewed the emission reduction spread sheets (ER sheets) and checked all the formulae and found they are correct and are in accordance with the monitoring plan of the registered VCS PD /23/ and the applied monitoring methodology.

According to applied methodology; AMS- II.C, version 15.0 /B02/ the emissions are calculated as below:

Baseline Emission

According to paragraphs 20 and 21 of the applied methodology, Option 1 i.e. 'Constant Load Equipment's' is applicable for the present project. Baseline emission is calculated using the following equations:

$$BE_y = E_{BL,y} \times EF_{CO2,ELEC,y} + Q_{ref,BL} \times GWP_{ref,BL}$$

As the project entails replacement of LED in place of ICLs no refrigerant is involved. The above equation is then modified to:

$$BE_y = E_{BL,y} \times EF_{CO2,ELEC,y}$$

Where:

BE_y	: Baseline emissions during the year y in (tCO_2e)
$E_{BL,y}$	: Energy consumption for the baseline (ICLs) in year y (kWh)
$EF_{CO2,ELEC,y}$	: Electricity emissions factor. If electricity displaced is grid, the emission factor in year y shall be calculated in accordance with the provisions in AMS-I.D (tCO2/MWh). If electricity displaced is captive electricity, the emission factor in year y shall be calculated

in accordance with the "Tool to calculate baseline, project and/or leakage emission from electricity consumption"

Electricity consumption for baseline in year y is calculated as:

$$E_{BL,y} = \sum_i (n_i \times \rho_i \times \frac{o_i}{1 - l_y} \times 0.95)$$

Where:

n_i : Number of pieces of equipment of the group of 'i' baseline equipment (ICLs) replaced.

ρ_i : Electrical power demand (kW) of the group of 'i' baseline equipment (e.g., 60W or 100W incandescent lamps). In the case of more than one type of ICLs are replaced, electrical power demand is the weighted average of the rated power (kW) of group I baseline equipment (ICLs).

o_i : Average annual operating hours of the group of 'i' baseline equipment (ICLs). The operating hours of the baseline equipment in year y can be determined using surveys by continuous measurement of usage hours of baseline equipment for a minimum of 90 days. For a large population of baseline equipment: (a) Use a representative sample (sampling determined by a minimum 90% confidence interval and 10% maximum error margin); (b) Apply correction for seasonal variation, if any; and (c) Ensure that sampling is statistically robust and relevant, i.e. the selection of the equipment to be analysed for operating hours has a random distribution and is representative of target population (size, location).

l_y : Average annual technical grid losses (transmission and distribution) during year y for the grid serving the locations where the devices are installed, expressed as a fraction. This value shall not include nontechnical losses such as commercial losses (e.g. theft). The average annual technical grid losses will be determined using recent, accurate and reliable data available for the host country. This value can be determined from recent data published either by a national utility or an official governmental body. The reliability of the data used (e.g. appropriateness, accuracy/uncertainty, especially exclusion of nontechnical grid losses) will be established and documented by the project participant. A default value of 0.1 shall be used for average annual

technical grid losses, if no recent data are available or the data cannot be regarded accurate and reliable

0.95 : For a net-to-gross adjustment factor, a default value of 0.95 shall be multiplied, unless a more appropriate value based on a lighting use survey from the same region and not older than two years is available

Project Emission:

Project emissions on account of electricity used by the project equipment shall be calculated according to following equations:

$$PE_y = E_{PE,y} \times EF_{CO2,ELEC,y} + PE_{ref,y}$$

Where:

PE_y : Project emissions during the year y in (tCO2e)

$E_{PJ,y}$: Energy consumption in project activity in year y. This shall be determined ex post based on monitored values

$EF_{CO2,y}$: Emission factor for electricity or thermal baseline energy. The emissions associated with grid electricity consumption should be calculated in accordance with the procedures of AMS-I.D. For fossil fuel displaced reliable local or national data for the emission factor shall be used; IPCC default values should be used only when country or project specific data are not available or difficult to obtain

$PE_{ref,y}$: Project emissions from physical leakage of refrigerant from the project equipment in year y (tCO2e/y)

Electricity consumption for project in year y is calculated as

$$E_{PE,y} = \sum_i (n_i \times \rho_i \times o_i)/(1 - l_y) \times 0.95$$

Where:

n_i : Number of group 'i' project devices operating during time interval t in year y.

ρ_i : Electrical power demand (kW) of the group 'i' project devices measured during the time interval t in year y.

o_i : Operating hours of group of 'i' project devices in the time interval t in year y

0.95 : For a net-to-gross adjustment factor, a default value of 0.95 shall be multiplied, unless a more appropriate value based on a lighting use survey from the same region and not older than two years is available

Leakage: According to the applied methodology, leakage emissions have to be considered if the energy efficiency technology involves equipment's transferred from another activity. In the proposed project activity, LEDs that will be distributed to the consumers are not transferred from another activity; hence leakage emissions are not applicable.

Emission reductions have been calculated in accordance with the applied methodology AMS-II.C version 15 /B01/, and VCS PD /23/. The PP has used monitored data and ex-ante fixed data including default values as mandated/permitted by the applied methodology. The values used for calculation of GHG emission reductions have been thoroughly checked by the verification team and was found appropriate and correct.

Sampling approach:

The sampling plan implemented by the PP is in accordance with the applied approved monitoring methodology /B02/ and the registered VCS PD /23/. The emission reductions for the project activity "Grouped projects for Vietnam Energy Efficiency Program" has being claimed for this monitoring period (30-Aug-2022 to 30-Jun-2023) and the total population of the LEDs for this monitoring period is 5,999,464 LEDs.

The PP has appropriately performed stratified random Sampling procedure, reliability levels were set at 95% confidence and 10% precision in line with the applied methodology AMS-II.C (Version 15.0) /B02/. As the registered VCS PD /23/ mentions the option for stratified random Sampling procedure, it is acceptable to the verification team. The sampling surveys have been carried out by the well-trained personnel /18/.

Monitoring parameters $O_{i,project}$ and $n_{i,operational}$. are monitored through monitoring sample surveys.

Parameter	Description of Parameter	Parameter of Interest
$O_{i,project}$	Average annual operating hours of type 'I' project lamp	Mean
$n_{i,operational}$	Total number of project lamps of 9W wattage that are operational during time interval t	Proportion

Monitoring of the parameters ensures compliance with the applied methodology AMS- II.C.- version 15 /B02/. The verification team has checked the survey records /14/ and sample size calculation/20//21/.

PP has applied sampling for the current monitoring period. A confidence/precision level of 95/10 has been used by the PP for all the monitoring parameters determined through applying simple random sampling. Survey has been carried out. This is in accordance with the sampling plan provided in the registered VCS PD /23/. The sample size was calculated using the formula provided by Guidelines for Sampling and Surveys for CDM Project Activities and Programme of Activities (Version 04.0)/B04/.

PP has provided the detailed sample size calculation under section 4.3 of the MR /01/ & ER calculation spreadsheet /02/

For parameter $n_{i,operational}$ – proportion:

The sample size calculated applying the formula.

$$n \geq \frac{1.96^2 N \times p \times (1-p)}{(N-1) \times 0.1^2 \times p^2 \times 1.96^2 p \times (1-p)}$$

Where

n = sample size

N = population size (total number of ICS)

P = expected proportion

1.96 = represent 95% confidence required

0.1 = represent 10% relative precision

The resultant applied sample size by the PP is summarized below:

Definition	Value	Justification
The population size N is	5,999,464	Number of LEDs (age 1) registered in database /19/
The expected proportion p for $n_{i,operational}$ is	0.9	90% is applied for sample size calculation

Based on the above assumptions, the resulting sampling size is calculated as:

$$n = \frac{1.96^2 \times 5{,}999{,}464 \times 0.9 \times (1-0.9)}{(5{,}999{,}464-1) \times 0.1^2 \times 0.9^2 + 1.96^2 \times 0.9 \times (1-0.9)} = 42.67$$

While taking in view for the outliers and nonresponse PP calculated an additional 20% of the sample to be surveyed, a total of 54 samples were selected as per below calculated.

Description	Calculated sample size	Actual monitored sample size (inclusive of 20% non-response)
Total sample size required	43	Roundup (43/0.8) = 54

For parameter $O_{i,project}$ – mean value:

The sample size calculated applying the formula:

$$n \geq \frac{1.96^2 NV}{(N-1) \times 0.1^2 + 1.96^2 V}$$

Where

V = $\left(\frac{SD}{mean}\right)^2$

n = sample size

N = population size

1.96 = represent 95% confidence required

0.1 = represent 10% relative precision

The resultant applied sample size by the PP is summarized below:

Definition	Value	Justification
The population size N is	5,999,464	Number of LEDs (age 1) registered in database /19/
The expected mean operating hours	6	Expected mean of 6 hours/day is applied for sample size calculation
Expected SD	1.9	Expected SD = 1.9 is applied for sample size calculation

Based on the above assumptions, the resulting sampling size is calculated as:

$$n \geq \frac{1.96^2 \times 5{,}999{,}464 \times \left(\frac{1.9}{6}\right)^2}{(5{,}999{,}464-1) \times 0.1^2 + 1.96^2 \times \left(\frac{1.9}{6}\right)^2} = \frac{2{,}311{,}156}{59{,}995 + 0.385} = 38.5$$

The calculated sample size (for parameter of interest is a numeric mean value) is more than 30 samples, the sample size adjustment by the Student's t-distribution is not required (in accordance with paragraph 13 of standard: sampling and survey for CDM project activities and programmes of activities (version 09.0)

Therefore, in this case, the sample size for the parameter $O_{i,project}$ is 39 (rounded value).

While taking in view for the outliers and nonresponse PP calculated an additional 20% of the sample to be surveyed, a total of 49 samples were selected as per below calculated.

Description	Calculated sample size	Actual monitored sample size (inclusive of 20% non-response)
Total sample size required	49	Roundup (39/0.8) = 49

Since parameters $n_{i,operational}$, and $O_{i,project}$ survey share the same sampling units, PP may choose to have one common survey for these two parameters.

The resultant applied sample size by the PP is summarized below:

Parameters	$n_{i,operational}$,	$O_{i,project}$
Sample size	54	49
Survey result	1	5.940
Precision achieved	0%	SD = 0.795

VVB used sampling during verification for checking the operational status in the households. The sampling done by VVB reflects the population of the project activity. Applying paragraph 39 (c) of the sampling standard, version 09 /B04/, a sample size of 11 was chosen (with no discrepant records). A sample size of 11 was determined, based on an AQL of 0.5% and UQL of 20%, producer risk 10% and consumer risk 10%. Acceptance number (c) thus determined for the sample is 0. VVB interviewed 11 samples. It was observed that out of the 11 samples, all the LEDs were found to be operational, and this matched with the PP's records and hence no discrepant records were observed with the MR /01-b/ and ER sheet /02/ and thus c=0. Thus, PP's set of records has been accepted in line with §33 of the sampling standard, version 09 /B04/. Verification team has cross verified these sample documents.

The monitoring parameters to be monitored through the sampling plan are:

1. Number of operational project lamps during the monitoring period ($n_{i,operational}$)

2. Operating hours of replaced ICL lamps or installed LEDs using run time meters ($O_{i,project}$)

Simple random sampling was applied by the PP for selection of the monitoring samples with 95/10 confidence/precision for determining the sampling for all the parameters which is deemed acceptable as per the VCS PD /23/.

On-site assessment of Monitoring parameters (namely $n_{i,operational}$ and $O_{i,project}$) was conducted based on following two methods:

- Confirmation with the household/end user whether or not the PP has performed monitoring/measurement campaign (or parameter $n_{i,operational}$) and survey on LED bulbs operation (for the parameter $O_{i,project}$).
- Assessment of Competence of personnel involved in conducting standardized tests viz., $n_{i\ operational}$ and $O_{i\ project}$ and surveys: Verification team has reviewed the abilities, qualifications and recognition of involved personnel and institutions of the measuring team involved in the $n_{i,operational}$ and $O_{i\ project}$. The verification team based on onsite visit interviews confirms that the team was qualified to carry out the $n_{i\ operational}$ and $O_{i\ project}$ in line with the methodology.

PP has explained the process of conducting measurement campaign, surveys were done via data loggers. The operating hours ($O_{i\ project/baseline}$) was measured continuously for a period of 90 days (from 17-Feb-2023 to 09-Jun-2023) with the help of run time meters installed on a sample of lighting points. All runtime meters were properly calibrated before using /13/.

On-site surveys were conducted by the monitoring team to estimate the number of operational LEDs. This was done by visiting the premises, visual inspection, and interview with the LED user to assess whether the LEDs have corrected serial number and were operational.

During the onsite visit interviews with PP's representative, VVB was able to understand the process in line with the methodology AMS II-C version 15/B02/ and the PP monitoring procedure in line with the registered VCS PD /23/.

VVB's sample for acceptance sampling was the same for both the parameters. VVB could verify the original survey forms /14/ and data/information flow to sampling sheet and ER spread sheet. No discrepancy was found in the data/information flow. As per the section 2.3 above the end users were not interviewed in a single day. Moreover, PP has conducted the monitoring survey /14/ from 19-Jun-2023 to 24-Jun-2023. Hence, the survey process deemed acceptable to the verification team.

Furthermore, the database /19/ and beneficiary agreement /05//19/ was also checked/cross verified to confirm the number LEDs for the parameter $n_{i\ operational}$.

As per paragraph 25 of the Sampling Standard, version 09 /B04/, the verification team has to verify whether the project participants entity 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.

As per the applied methodology /, and registered VCS PD /23/. The necessary confidence / precision of 95/10 each of the parameters are met. This has been cross verified by the verification team from the supporting documents submitted /02//14/.

Verification team confirms that all parameters are used correctly in the calculations, all results are verifiable and transparent, all assumptions are described and based on verifiable evidence and calculations are done in accordance with the pre-defined formulae from registered VCS PD /23/. The total number of emission reductions for the monitoring period (30-Aug-2022 to 30-Jun-2023) is 284,963 tCO2e.

The verification team has checked and confirmed the calculations in the spreadsheet and found to be accurate. The monitoring report is supported by emission reduction spreadsheet. The consistency and formula were verified and found to be accurate.

The details of monitoring parameters used for calculation of emission reductions are provided below:

Table 2: Parameter Determined ex-ante.

Parameter	Unit	Value	Assessment
$EF_{CO2,ELEC,y}$	tCO2/MWh	0.8458	- Fixed ex-ante - The Project Proponent has applied the grid emission factor database available on the MONRE website, issued on 26th Feb 2021 /27/ this was the latest grid emission factor during the time of registration and the value is fixed ex-ante. Verification team confirms the value used is in line with the applied methodology and used to calculation of baseline emission and project emission.
l_i	Hours	22,000	- Fixed ex-ante The value has been fixed ex-ante and has been taken from the independent life tests of the LEDs as per national /international standard or any other industry admissible test. The value provided ex ante is for 9W. On the basis of review the registered VCS PD /23/ MR /01/, distribution database /19/, beneficiary agreement /19/ & onsite survey, the verification team confirmed that there is only one type of LED lamp (9W) distributed and installed during this monitoring period. Thus, the value is accepted.
ρ_i	Watts	60W	- Fixed ex-ante The value has been fixed ex ante and the same has been taken from actual lamp record collection database /19/. This value is in line with the applied methodology and is used to calculate the baseline emission.

The spread sheet submitted by the PP clearly and transparently mentions values of the data parameters used for calculation of emission reductions. The input values have been verified from the reliable and

authentic sources including monitoring records (distribution records) /14//19/, MR /01/, and applied methodology /B02/. The emission reductions calculated were compared with the emission reduction spread sheet /02/ and found to be correct. No significant reporting risks have been identified for the data reported.

The details of monitoring parameters used for calculation of emission reductions are provided below:

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of VCS PD):	Number of pieces of 60 W baseline Incandescent Lamps replaced. ($n_{i\ baseline\ (60W)}$)
Measuring frequency/Time Interval:	Once at the time of project installation
Reporting frequency:	Once at the time of project installation
Reported value:	60 W - 5,999,464
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Details of monitoring equipment:	N/A
If applicable, has the reported data been cross-checked with other available data?	Yes, The number of pieces of 60W baseline ICLs has been cross-checked from the distribution database /19/, beneficiary agreement /19/ and destruction certificate /26/.
How were the values in the monitoring report verified?	The values in the monitoring report have been verified from the review of LEDs distribution database /19/, monitoring survey database /14/, sample survey records /14/ and the ER spread sheet /02/ and interview with different stakeholders during onsite visit.
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The necessary QA/QC for this parameter is in place. The verification team has cross checked the audit trail of the data management for this parameter (LED distribution database /19/, beneficiary agreements /19/). Furthermore, the verification team confirmed the competence of the team involved in monitoring and

	recording through interviews and by reviewing the training documents /18/.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of VCS PD):	Number of pieces of 60 W baseline Incandescent Lamps destroyed ($n_{i\ baseline\ scrapped\ (60\ W)}$)
Measuring frequency/Time Interval:	Once
Reporting frequency:	Once
Reported value:	60 W - 5,999,464
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Details of monitoring equipment:	N/A
If applicable, has the reported data been cross-checked with other available data?	Yes, The number of pieces of 60W baseline ICLs has been cross-checked from the LED distribution database /19/, beneficiary agreement /19/ and destruction certificate /26/.
How were the values in the monitoring report verified?	The values in the monitoring report have been verified from the review of LEDs distribution database /19/, monitoring survey database /14/, sample survey records /14/ and the ER spread sheet /02/ and interview with different stakeholders during onsite visit.

Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The necessary QA/QC for this parameter is in place. The verification team has cross checked the audit trail of the data management for this parameter (LED distribution database /19/, beneficiary agreements /19/). Furthermore, the verification team confirmed the competence of the team involved in monitoring and recording through interviews and by reviewing the training documents /18/.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of VCS PD):	Number of pieces of 9W project lamps distributed. ($n_{i\ project\ (9W)}$)
Measuring frequency/Time Interval:	Annual
Reporting frequency:	Annual
Reported value:	9 W - 5,999,464
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Details of monitoring equipment:	NA
If applicable, has the reported data been cross-checked with other available data?	Yes, The number of pieces of 9W project LEDs has been cross-checked from the LED distribution database /19/, beneficiary agreement /19/ and destruction certificate /26/.

How were the values in the monitoring report verified?	The values in the monitoring report have been verified from the review of LEDs distribution database /19/, monitoring survey database /14/, sample survey records /14/ and the ER spread sheet /02/ and interview with different stakeholders during onsite visit.
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The necessary QA/QC for this parameter is in place. The verification team has cross checked the audit trail of the data management for this parameter (LED distribution database /19/, beneficiary agreements /19/). Furthermore, the verification team confirmed the competence of the team involved in monitoring and recording through interviews and by reviewing the training documents /18/.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of VCS PD):	Number ($n_{i,\ operational\ (9W)}$)
Measuring frequency/Time Interval:	Annual
Reporting frequency:	Annual
Reported value:	9W - 5,999,464 (100%)
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Details of monitoring equipment:	This parameter is calculated based on the response provided by the end-users of LEDs during the monitoring

	survey and is recorded in monitoring survey questionnaires.
If applicable, has the reported data been cross-checked with other available data?	Yes. The information on number of LED operation as provided in the monitoring survey database /19/ were verified randomly during onsite interviews with the survey forms/records /14/ and further crosschecked through interview of the household representatives.
How were the values in the monitoring report verified?	The values in the monitoring report have been verified from the review of LEDs distribution database /19/, monitoring survey database /19/, sample survey records /14/ and the ER spread sheet /02/. VVB used acceptance sampling during verification to check the operation of project LED during the monitoring period and a total of eleven (11) households were surveyed onsite by the verification team. During the onsite survey by VVB, it was observed that the response provided by the end-users to the verification team the operation of project LEDs matched with the response provided during the monitoring survey and recorded in the survey forms /14/.
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The necessary QA/QC for this parameter is in place. The verification team has cross checked the audit trail of the data management for this parameter (LED distribution database /19/, beneficiary agreements /19/, monitoring survey database /14//19/ and records /14/). Furthermore, the verification team confirmed the competence of the team involved in monitoring and recording through interviews and by reviewing the training documents /18/.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of VCS PD):	Average annual operating hours of type I project/ baseline lamp ($o_{i\ project(9W)\ /baseline\ (60W)}$)
Measuring frequency/Time Interval:	once, prior to or concurrent with the first ex-post monitoring
Reporting frequency:	once, prior to or concurrent with the first ex-post monitoring
Reported value:	2,168.11
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Details of monitoring equipment:	This parameter is calculated based surveys done using runtime meter installed on a sample of lighting points and data was collected by datalogger and extract to excel file for the final calculation. The operating hours ($O_{i\ project}$) was measured continuously for a period of 90 days (from 17-Feb-2023 to 09-Jun-2023). Monitoring equipment: • 49 runtime meters • Type: 01RTM • Serial number: from 2023 01 to 2023 49 • Range: (0 – 24)h All 49 runtime meters were calibrated /13/ by Vietnam Metrology Institute. All the calibration certificates /13/ of 49 runtime meters were provided to check.
If applicable, has the reported data been cross-checked with other available data?	Yes. The information on average annual operating hours of project LED as provided in the monitoring survey database & datalogger data spreadsheet /28/ including the calculation procedure for the sampled households and found them to be correct /20//21/. These were verified randomly during onsite interviews with the survey records /14/ and further crosschecked through interview of the household representatives.

How were the values in the monitoring report verified?	The values in the monitoring report have been verified from the review of monitoring survey database /19/, runtime meter datalogger spreadsheet /28/ and the ER spreadsheet /02/. VVB used acceptance sampling during verification to check the if the measurement of annual operating hours of project LED was conducted during the monitoring period and a total of eleven (11) households were surveyed onsite by the verification team and all the households confirmed that the dataloggers have been installed for their project LEDs for 90 days. In addition, the verification team has focused on the measuring equipment used for the survey and the sampling team. The installation of runtime meters has been carried out by the well-trained personnel and training certificate of the personnel has been provided to the verification team in this respect /19/. All the runtime meters were calibrated by third party – Vietnam Metrology Institute /13/ before installation and doing the measurement.
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The necessary QA/QC for this parameter is in place. The verification team has cross checked the audit trail of the data management for this parameter (LED distribution database /19/, beneficiary agreements /19/, monitoring survey database /14//19/, survey records /14/ and datalogger spreadsheet /28/). Furthermore, the verification team confirmed the competence of the team involved in monitoring and recording through interviews and by reviewing the training documents /18/.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA

In conclusion, the VVB verifier confirmed that the spread sheet submitted by the PP clearly and transparently mentions values of the data parameters used for calculation of emission reductions. The input values have been verified from the reliable and authentic sources including monitoring records /14/, datalogger spreadsheet /28/, MR /01/, and applied methodology /B02/. VVB verifier has replicated the emission reductions calculated and confirmed that it is the same with the emission reduction spread sheet /02/ and found to be correct. No significant reporting risks have been identified for the data reported, therefore we confirmed that GHG emission reductions and removals have been quantified correctly in accordance with the project description and applied methodology.

4.4 Quality of Evidence to Determine Reductions and Removals

CCIPL verification team was able to confirm that the calculations are based on authentic data and the Emission reduction spreadsheets /02/ used to calculate the VCUs calculations and all figures were tracked, checked, and found to be consistent.

The quality of supporting evidence submitted to the VVB for verification is adequate and found to be verifiable. The transfer of carbon rights and other supporting documents related to quality and maintenance were checked by the verification team during the on-site audit to confirm the authenticity of the documents and to check the correctness of the calculation.

When verifying the reported emission reductions, CCIPL ensured that there was a clear audit trail that contained the evidence and records that validate the stated figures. All source of documents that form the basis for assumptions and other information underlying the GHG data were checked by the verification team.

When assessing the audit trails, CCIPL also examined:

1. Whether sufficient evidence was available, both in terms of frequency and in covering the full monitoring period
2. The source and nature of the evidence.
3. If comparable information was available from sources other than that used in the monitoring report, CCIPL cross-checked the monitoring report against the other sources to confirm that the stated figures were correct.

CCIPL also assessed that the data collection system met the requirements of the monitoring plan as per the applied methodology /B02/.

Proper data management inclusive of data acquisition and aggregation, data management system is being followed for the project activity.

Therefore, Verification Team of CCIPL, hereby confirms that the evidence used to determine the GHG emission reductions are sufficient in quantity and appropriate in quality.

4.5 Non-Permanence Risk Analysis

N/A

5 VERIFICATION OPINION

5.1 Verification Summary

Carbon Check (India) Private Ltd, (the VVB) has performed the first (01st) emission reduction verification of the registered VCS project activity "Grouped projects for Vietnam Energy Efficiency Program" having VCS ID; 3244. The scope of the activities covers the verification and certification of GHG emissions reductions reported in latest monitoring report /01/. And this report summarizes the findings of the verification of the project, performed on the basis of VCS criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The project activity falls under the group project which involves the distribution of LEDs to replace ICLs in the baseline scenario. The verification process was performed on the basis of all guidance and criteria as provided in VCS Standard version 4.5 /B01-a/, VCS Program Guide version 4.4 /B01-b/, VCS Validation and Verification Manual version 3.2 /B01-c/ and Registration & Issuance Process version 4.4 /B01-d/.

The component project activities (PA1, PA2, PA3, P4, PA5, PA6, PA7, PA8, PA9, PA10, PA11, PA12, PA13, PA14) were correctly implemented according to selected monitoring methodology, monitoring plan and the registered VCS PD /23/ for the group project activity. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on-visit the verification team confirms that the project activity has resulted in emission reductions of 284,963 tCO2e during the first (01st) monitoring period 30-Aug-2022 to 30-Jun-2023 as per MR /01/.

5.2 Verification Conclusion

CCIPL as a VVB is able to issue a positive verification opinion expressed in the attached Certification statement. And as the result of verification of the project activity of this grouped project, the verifier confirms that the GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner. Carbon Check (India) Private Ltd herewith confirm that the project has achieved emissions reductions in the below mentioned reporting period as follows. The project complies with the verification criteria for projects and their GHG emissions reductions or removal set out in VCS criteria. Verified GHG emission reductions and removals in the verification period as follow:

Verification period: From 30-Aug-2022 to 30-Jun-2023

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

Vintage period	Baseline emissions (tCO_2e)	Project emissions (tCO_2e)	Leakage emissions (tCO_2e)	Reduction VCUs (tCO_2e)	Removal VCUs (tCO_2e)	Total VCUs (tCO_2e)
From 30-Aug-2022 to 31-Dec-2022	71,513	10,727	0	60,786	0	60,786
From 01-Jan-2023 to 30-Jun-2023	263,738	39,561	0	224,177	0	224,177
Total	335,251	50,288	0	284,963	0	284,963

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/ removals	Achieved reductions/ removals	Percent difference	Explanation for the difference
From 30-Aug-2022 to 31-Dec-2022	16,801	9,143	45.58%	Not all LEDs was distributed and operational on the start date.
From 01-Jan-2023 to 30-Jun-2023	24,588	24,458	0.525%	Not all LED's distribution was distributed and operational on the 01-Jan-2023. The distribution happened through out the year.
Total	**41,389**	**33,602**	**46.11%**	Not all LEDs was distributed and operational on the start date of this monitoring period. The distribution happened through out the monitoring period.

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

Not applicable

Section	*Information*	*Justification*	*Assessment method and conclusion*
N/A	N/A	N/A	N/A

APPENDIX 2: ABBREVIATIONS

AQL	Acceptable Quality Level
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO_2	Carbon Dioxide
CO_{2e}	Carbon Dioxide Equivalent
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
FAR	Forward Action Request
FVR	Final validation Report
GCC	Global Carbon Council
GHG	Greenhouse gas(es)
GS	Gold Standard
GWh	Giga Watt Hour
ICL	Inefficient Incandescent light
IPCC	Intergovernmental Panel on Climate Change
LED	Light Emitting Diodes
MW	Megawatts
MWh	Mega Watt Hour
OSV	On Site Visit
PP	Project participant
QC/QA	Quality control/ Quality assurance
SDG	Sustainable Development Goal
SIPCO	Sustainability Investment Promotion and Development Joint Stock Company
REC	Renewable Energy Certificate
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
UQL	Unacceptable Quality Level
VCS	Verified Carbon Standard
VVB	Validation / Verification Body

APPENDIX 3: REFERENCE DOCUMENTS

Ref	Document
/01/	1. Monitoring report for Grouped Projects for Vietnam Energy Efficiency Program (version 01, dated 10-July-2023) 2. Monitoring report for Grouped Projects for Vietnam Energy Efficiency Program (version 02; dated: 05-September-2023) 3. Monitoring report for Grouped Projects for Vietnam Energy Efficiency Program (version 03; dated: 20-September-2023) 4. Monitoring report for Grouped Projects for Vietnam Energy Efficiency Program (version 04; dated: 03-October-2023)
/02/	ER calculation spread sheet correspond to /01-2/ "02. ER calculation sheet_1st MR_LED project_20092023.xlsx"
/03/	Agreement between beneficiary and SIPCO for first LED distributed/installed to household (evidence for the start date of the grouped project) & photo of first distribution.
/04/	Technical specifications of the LED from manufacturer including the life span/ QCERT Testing and inspection company Limited
/05/	Proof of right of relinquishment of VERs from the end users to the project proponent. / AGREEMENT BETWEEN BENEFICIARY AND SUSTAINABILITY INVESTMENT PROMOTION AND DEVELOPMENT JOINT STOCK COMPANY (SIPCO)
/06/	Baseline survey records Survey Questionnaire template
/07/	Signed declaration by PP as evidence for free distribution of LEDs Declaration letter from CME and beneficiary agreement between CME and end user
/08/	Local stakeholders meeting related evidence a. Invitation Letter b. MoM of LSC c. LSC Project Introduction
/09/	Project implementation schedule.
/10/	Evidence of unique identification system of the LED.
/11/	Third Party test report of LEDs used in project activity / QCERT test certificate
/12/	Sample sales records/warranty cards for LEDs
/13/	Calibration certificates for run time meter
/14/	Monitoring survey questionnaire template & monitoring survey records for

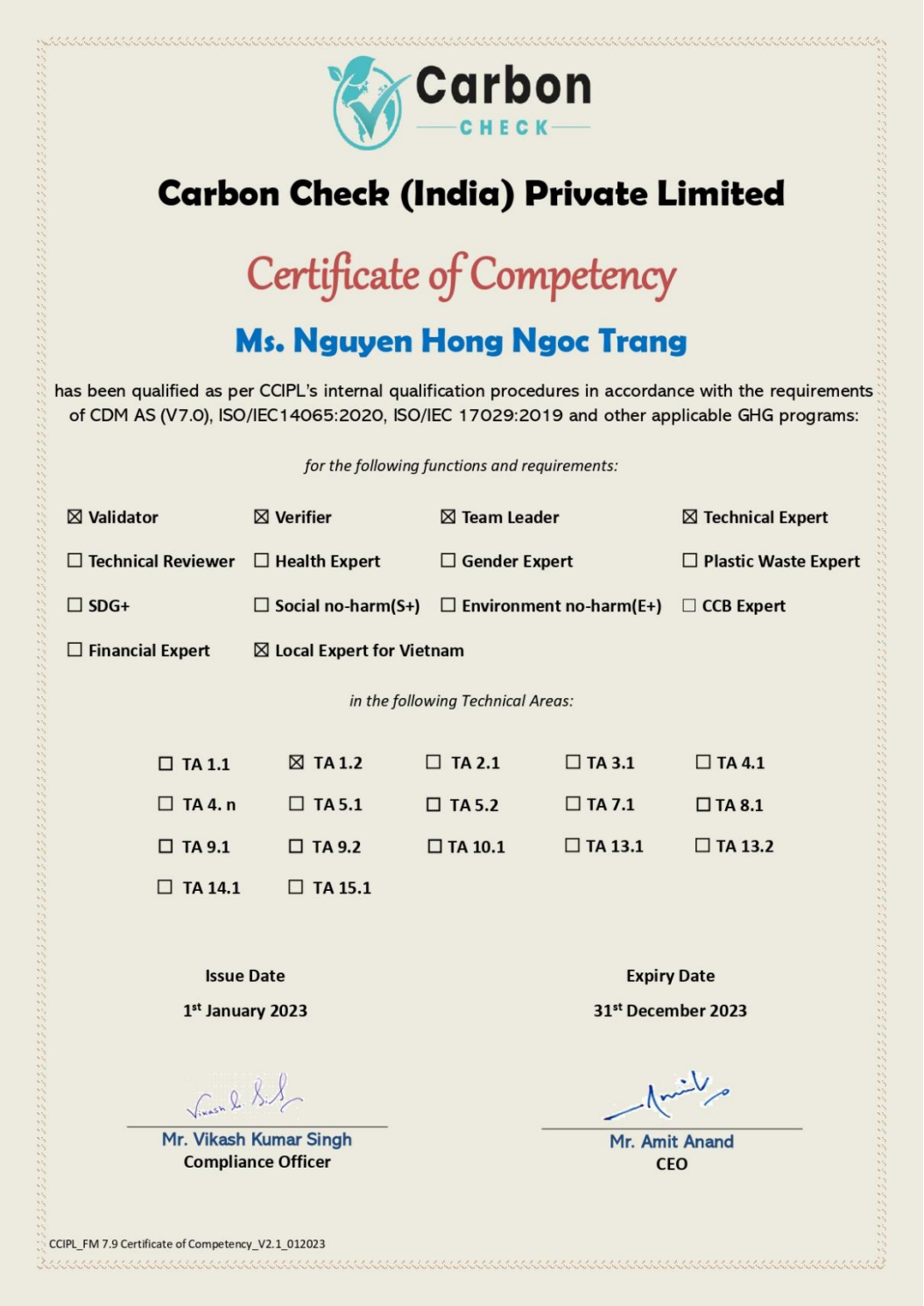
	1. Average annual operating hours of type 'I' project lamp 2. Total number of project lamps of 9W wattage that are operational during time interval t
/15/	Declaration from the project proponent that the project is not creating any other form of environmental credit under any specific program.
/16/	Declaration from the project proponent that the project has not or shall not claim carbon credits any other scheme after Registration of the project under VCS.
/17/	LEDs distribution agreement between Women Union and SIPCO
/18/	Training plan/ records of personnel appointed for surveys.
/19/	Distribution Database & beneficiary agreement
/20/	Sample planning
/21/	Random generator
/22/	Annual reports by Women Union to SIPCO & by SIPCO to donor
/23/	Registered VCS PD & corresponding validation report.
/24/	Grievance form and response from PP
/25/	Company business license Company code of conduct
/26/	ICLs treatment certificate & video
/27/	Grid emission factor, published by MONRE
/28/	Runtime meters datalogger spreadsheet

Background Documents

Ref	Document
/B01/	VCS Requirements a. VCS Standard (v4.5, updated 29-August-2023) b. VCS Program Guide (v4.4, updated 29-August-2023) c. VCS Validation and Verification Manual version (v3.2, dated 19-October-2016) d. Registration & Issuance Process (v4.4, updated 29-August-2023) e. VCS Program Definitions (v4.4, updated 29-August-2023) f. VCS Verification Report template (v4.3, updated 29-August-2023)
/B02/	Applied baseline and monitoring methodology 1. AMS-II.C version 15.0 "Demand-side energy efficiency activities for specific technologies"

/B03/	a. "Standard for sampling and surveys for CDM project activities and programme of activities" (version 09.0) b. Guidelines for sampling and surveys for CDM project activities and Programme of Activities (version 04)
/B04/	Website and links: 1. IPCC (http://www.ipcc-nggip.iges.or.jp) 2. http://cdm.unfccc.int 3. http://www.verra.org

APPENDIX 4: CERTIFICATES OF COMPETENCE



Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Nguyen Hong Ngoc Trang

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

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☐ SDG+	☐ Social no-harm(S+)	☐ Environment no-harm(E+)	☐ CCB Expert
☐ Financial Expert	☒ Local Expert for Vietnam		

in the following Technical Areas:

☐ TA 1.1	☒ TA 1.2	☐ TA 2.1	☐ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☐ TA 13.1	☐ TA 13.2
☐ TA 14.1	☐ TA 15.1			

Issue Date
1st January 2023

Expiry Date
31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Aparna Choudhary

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

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☐ Financial Expert	☒ Local Expert for India		

in the following Technical Areas:

☒ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☒ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1			

Issue Date
03rd May 2023

Expiry Date
04th May 2024

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

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

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☒ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☒ Financial Expert	☒ Local Expert for India and Sri Lanka		

in the following Technical Areas:

☒ TA 1.1	☒ TA 1.2	☐ TA 2.1	☒ TA 3.1	☐ TA 4.1
☐ TA 4. n	☐ TA 5.1	☐ TA 5.2	☐ TA 7.1	☐ TA 8.1
☐ TA 9.1	☐ TA 9.2	☐ TA 10.1	☒ TA 13.1	☒ TA 13.2
☐ TA 14.1	☐ TA 15.1			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

APPENDIX 5: FINDING LOGS

Table 1. CLs from this verification

Finding	CL 01		
Classification	☐ CAR	☒ CL	☐ FAR
Description of finding (VVB)	In Section 1.7 of the MR, it is not clear to the verification team which PA that Khanh Hoa Province is belonged to. Please review.		
Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	This is PP's mistake during writing MR. Khanh Hoa province is belonged to PA 012. PP has revised the information in MR version 02, updated on 08/09/2023		
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*	On the basis of review of the updated MR, it is clear that PP has sufficiently revised the mistake in the table. The information now is clear for the verification team.		
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed		

Finding	CL 02		
Classification	☐ CAR	☒ CL	☐ FAR
Description of finding (VVB)	In Section 2.2 of the MR, the PP has not mentioned whether they received any comments from the ongoing stakeholder consultation mechanism. Please include that information and provide supportive evidence to cross-check.		
Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	PP has not received any comments in this monitoring period. PP has added this information in section 2.1.2.		
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective*	On the basis of review of the updated MR, it is clear that PP has included the information and activities that they have been conducted for ongoing communication with stakeholder. The verification team has reviewed		

action and VVB assessments (#2, #3, etc.) shall be added.	the annual on-going communication report and interview with stakeholders onsite and found the information written in the MR is correct.
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed

Table 2. CARs from this verification

Finding	CAR 01		
Classification	☒ CAR	☐ CL	☐ FAR
Description of finding (VVB)	Throughout the whole MR, the PP is requested to use the consistent format (DD-Month-YYYY) for the date throughout the document as per requirement of VCS Monitoring Report template V.4.2.		
Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	PP has revised all format for the date throughout PD according to the latest VCS MR template version 4.3		
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*	On the basis of review of the updated MR, it is clear that the format (DD-Month-YYYY) for date has been used throughout the MR as per requirement of VCS Monitoring Report template V.4.3.		
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed		

Finding	CAR 02		
Classification	☒ CAR	☐ CL	☐ FAR
Description of finding (VVB)	In Section 1.10 of the MR, the PP has mentioned to include the evidence of the notification of the grouped project to avoid the potential risk of Scope 3 emission double claiming. However, the verification team did not find anything in the Appendix. Please check and include.		

Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	PP has added evidences of public statement for Supply chain (Scope 3) in Appendix X in the MR version 02, updated on 08/09/2023
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*	On the basis of review of the updated MR, it is clear that the evidence of public statement for supply chain (scope 3) has been sufficiently added in the Appendix of the MR. The verification team has reviewed and accept it.
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed

Finding	CAR 03		
Classification	☒ CAR	☐ CL	☐ FAR
Description of finding (VVB)	In section 5.2: the verification team found that the value of ρ_i used to calculate the project emission is inconsistent with ER. Please review & revise.		
Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	This is PP's mistake. The value of ρ_i used to calculate the PE is 0.009 kW. PP has revised this value in the MR version 02, updated on 08/09/2023		
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*	On the basis of review of the updated MR, it is clear that typing mistake has been corrected. It is now consistent with ER.		
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed		

Finding	CAR 04		
Classification	☒ CAR	☐ CL	☐ FAR
Description of finding (VVB)	The MR template is not the most updated one. Please change to the most updated template.		

Corrective Action or clarification #1 *(PP shall write a detailed and clear corrective action or further information for clarification as per finding)*	PP has updated MR according to the latest MR template, version 4.3.
VVB Assessment #1 *The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.*	On the basis of review of the updated MR, it is clear that the MR has been updated to template version 4.3
Conclusion *Tick the appropriate checkbox*	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed