



Verification and certification report form for Gold Standard project activities

BASIC INFORMATION

Title and GS reference number of the project activity	BIM Solar Farm GS 7525
Scale of the project activity	☒ Large-scale ☐ Small-scale
Version number of the verification and certification report	02
Completion date of the verification and certification report	26/08/2025
Monitoring period number and duration of this monitoring period	03 rd Monitoring period 01/03/2023 to 31/05/2024 (inclusive of both days)
Version number of the monitoring report to which this report applies	04
Crediting period of the project activity corresponding to this monitoring period	02/06/2019-31/05/2024 (both dates inclusive)
Project representative(s)	BIM Renewable Energy Joint Stock Company (BIMRE) BIM Energy Joint Stock Company (BIME)
Host Party	Vietnam
Applied methodologies and standardized baselines	ACM0002 – Grid-connected electricity generation from renewable sources (Version 19.0)
Mandatory sectoral scopes	Sectoral Scope 1: Energy Industries (Renewable/ non-renewable sources)
Conditional sectoral scopes, if applicable	-
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	712,474 tCO ₂ e (For 457 days)
Certified amount of GHG emission reductions or GHG removals for this monitoring period	679,095 tCO ₂ e (For 457 days)
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A
SDG Impacts:	1. SDG 7: Affordable and Clean Energy 2. SDG 8: Decent work and Economic Growth 3. SDG 13: Climate Action

Name and UNFCCC reference number of the VVB	E-0052: Carbon Check (India) Private Ltd.
Name, position and signature of the approver of the verification and certification report	 Amit Anand, CEO

SECTION A. Executive summary

Carbon Check (India) Private Ltd. (CC IPL) is performing the third periodic verification of the GS project “BIM Solar Farm” (GS Project Id: GS 7525) for the period 01/03/2023 to 31/05/2024 (both dates inclusive). The project activity involves installation and operation of three solar power plant units in the Thuan Nam District, Ninh Thuan Province, Vietnam, with a capacity of 405 MW_p. The project consists of 3 plant units, 18N + 18NX (250 + 75 MW_p), 18S (50 MW_p) & 18E (30MW_p) These solar power plants can produce 671,195 MWh per annum as per the registered PDD /02/.

According to the registered PDD /02/ & MR /01/, the project activity, "BIM Solar Farm" aims to replace anthropogenic emissions of Greenhouse Gases (GHGs) by displacing an equivalent amount of electricity from fossil fuel-based power plants connected to the Vietnam's national grid (EVN). The project activity has resulted in a total amount of 679,095 tCO₂e emission reduction for the current monitoring period.

This report summarises the findings of the verification of the project, performed on the basis of gold standard for Global Goals (GS4GG), as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the Gold Standard. Verification is required for all registered GS project activities intending to confirm their achieved emission reductions and proceed with request for issuance of VERs. This report contains the findings and resolutions from the verification and a certification statement for the verified emission reductions.

Verification is the periodic independent review and ex-post determination of both quantitative and qualitative information by a Validation & verification body (VVB), of the monitored reductions in GHG emissions that have occurred as a result of the project activity during a defined monitoring period.

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

The objective of this verification was to verify and certify emission reductions reported for the “BIM Solar Farm” in the host country “Vietnam” for the period 01/03/2023 to 31/05/2024 (including both the days).

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

In particular, the monitoring plan, monitoring report and the project's compliance with relevant GS/ UNFCCC and Host Party criteria are verified in order to confirm that the component project has been implemented in accordance with the previously registered project design and conservative assumptions, as documented. It is also confirmed if the monitoring plan is in compliance with the registered PDD /02/ and the approved monitoring methodology /B01/.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered PDD /02/

- To verify the implemented monitoring plan with the registered PDD /02/ and applied baseline and monitoring methodology /B01/.
- To verify that the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission data is sufficiently supported by evidence.

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

Verification process:

The verification comprises a review of the monitoring report /01/ over the monitoring period from 01/03/2023 to 31/05/2024 (both dates inclusive) and based on the registered PDD /02/ as part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet /03/, monitoring methodology /B01/, and all related evidence provided by project developers.

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

Conclusion:

The verification team assigned by the Validation & Verification body (VVB) concludes that the monitoring report /01/, meet all relevant requirements of the Gold Standard as per the requirements of GS4GG/ UNFCCC. The verification has been conducted in-line with the GS4GG requirements /B02/ and UNFCCC /B03/.

The project activity was correctly implemented according to the selected monitoring methodology /B01/, monitoring plan and the registered PDD /02/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. The following table provides the resulted emission reduction from the project as verified through the document review and on-site interviews by the verification team.

Vintage	ER (tCO₂e)
01/03/2023-31/12/2023	435,182 tCO ₂ e
01/01/2024-31/05/2024	243,913 tCO ₂ e
Total for the monitoring period	679,095 tCO₂e

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

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

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

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

No	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer	IR	C	Indumathi	Carbon Check
2.	Approver	IR	Anand	Amit	Carbon Check

Audit Team Experience:

The team composition is linked to the methodology and local experience in the host country.

Campal Kadam: He is qualified as Team Leader with technical areas 1.1, 1.2, 3.1, 13.1 and 13.2. He is involved in various validations and verifications under CDM, VCS, SD VISA and GS projects. He has also attended VERRA and GS DOE webinar trainings. He has completed ISO 14064-1, 2 & 3 training successfully. He holds a Master of Science degree in Physics from the University of Mumbai.

Pham Tra Giang: She is qualified as Acting Team Leader/Technical Expert in TA 1.1 and 1.2 and involved in various validations and verification under CDM, VCS, and Gold Standard (GS) projects. She has also attended GS DOE webinar trainings. She holds a Master of Environmental Engineering degree in Hanoi University of Science and Technology. She has more than 18 years of experience, she specializes in carbon credit trading, renewable energy, emission reduction projects, and environmental compliance.

Indumathi C: She is a qualified internal technical reviewer for validation and verification of GHG emission reduction projects under CDM, VCS and GS. She is an appointed Team Leader and

Technical Expert for technical areas TA 1.1, 1.2, 3.1, 13.1 & 13.2. She has more than 13 years of work experience in climate change mitigation, renewable energy, energy efficiency and energy access. She has worked with various Designated Operational Entities like TUV NORD, TUV Rheinland and 4KES for more than 250 GHG emission reduction projects under different carbon crediting mechanisms. She is a certified GHG Auditor and Energy Manager (Bureau of Energy Efficiency, Government of India).

SECTION C. Means of verification

C.1. Desk/document review

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The verification was performed based on the review of the Monitoring report /01/ and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology /B01/. Documents reviewed or referenced during the verification are listed in Appendix 3 below.

C.2. On-site inspection

Onsite physical audit has been performed. The Acting Team Leader has conducted the on-site inspection.

Furthermore, VVB has considered the Site Visit and Remote Audit Requirements and Procedures, version 2.0 /B04/ for conducting the onsite visit in accordance with the requirements provided in the paragraph 3.1.1(b) of the Site Visit and Remote Audit Requirements and Procedures, version 2.0 /B04/.

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
/01/	Nguyen	Phuong Trung	BIM	07/05/2025	Discussion on project design (implementation and operation) and monitoring data. Discussion on the contents of the Monitoring Report Discussion on SD monitoring and Grievance Mechanism – Handling of	Pham Tra Giang
/02/	Do	Thi Huong Giang	BIM			
/03/	Truong	Cong Hoang	BIM			
/04/	Phan	Minh Dung	BIM			
/05/	Le	Ngoc Han	BIM			
/06/	Tran	Dang Tuan	Local Stakeholder			
/07/	Vu	Thi An	Local Stakeholder			
/08/	Nguyen	Thi Phuong Chi	Local Stakeholder			
/09/	Panchaksharam	Thirumalavan	C&W Services			

					Grievances and training. Operation & Maintenance of plant MR & ER documentation, Verification of monitoring parameters, Verification of SDG parameters, Review of data flow.	
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The VVB team conducted interviews with employees and stakeholders only after obtaining confirmation of their willingness to participate and consent to the disclosure of private information. Therefore, the interviews conducted by the VVB are in compliance with paragraph 7.16.6 (e) of the GS4GG Validation and Verification Standard, version 2.0 /B02/.

C.4. Sampling approach

There is no sampling approaches performed in the project activity.

The project activity consists of various components such as solar panels, transformers, transmission lines, meters, etc. These components of the project activity are located in two sites. During the verification process, VVB verified the total capacity of the project from the commissioning certificates /4/. In addition, during the onsite visit, the VVB checked the solar panels and inverters in the project area. VVB has checked few samples from the total solar panels and inverters during the onsite to check the solar panels and inverters used in the project activity. Further, the total number of inverters is fully confirmed by the actual SCADA during the onsite visit. During the onsite visit VVB has checked the project components like solar panels, transformers, metering area, control room etc. So, in conclusion, considering the above the total capacity is confirmed.

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

The VVB has raised **06** clarifications (CLs) and **06** Corrective Action Requests (CARs) were raised and closed successfully by the PPs. Detail list of findings as provided in Appendix 4 of this document.

C.6. Application of Materiality

The project activity is registered as large scale project under GS4GG is verified from registered PDD /02/. Further, in-line with the provisions of footnote 21 of paragraph 9.6.2 and 9.6.3 of GS4GG Validation and Verification Standard, version 2.0 /B02/, VVB has considered additional guidance and examples of the application of materiality in the verification, refer to the "Guideline: Application of materiality in verifications, version 2.0" of CDM /B03/.

As per GS Validation and Verification Standard, paragraph 9.6.3, the emission reductions/ removals for large-scale project activities achieving a total emission reduction or removals of 500,000 tonnes of carbon dioxide equivalent per or less is 0.5%. Hence VVB has selected the applied materiality threshold would be 0.5% for the assessment.

C.7. Clarification Application of Materiality

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the potential risk		Assessment of the records/information/interview with personnel to check controls/ mitigation measures
		Risk level	Justification	
1.	Human Error: Recording and reporting of the information in the ER spreadsheet.	Medium	All the ER spreadsheet data of monitored including the raw data. This includes all the parameters to be monitored ex-post as per the project document	The risk was mitigated by reviewing the training of the personnel involved in the data capture, calculation and by following the monitoring responsibilities. The training records were reviewed which was also confirmed during the onsite interviews.
2.	Information System: Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability, security	Medium	The data is recorded in the spreadsheets based on the raw data collected during the field visits. The access to the spreadsheets for calculation of ERs, SDG calculation sheet	The identified risk was mitigated by reviewing the management of access to the records. It was confirmed through interviews whether the raw data collected by the trained personnel and then transmitted and stored electronically to the VVB's office. The data quality control to be checked.
3.	Accuracy of the measuring equipment	Low	Check the calibration records for the equipment involved in data collection.	The risk due to accuracy of the measuring equipment was ensured by planning to check calibration certificates of the equipment.
4.	Competence of personnel involved in conducting standardized tests.	Low	Interview of the personnel involved and check the training records/accreditation certificates (applicable in case of institutions) involved in conducting such tests.	The risk was mitigated by reviewing the training records of the personnel involved in conducting such tests and by following the monitoring responsibilities. For institutions involved in conducting such tests, their accreditation certificates were checked to establish their competence for conducting such tests. The training records and certificates were reviewed which was also confirmed during the verification.

C.8. Consideration of materiality in conducting the verification

In line with the Guidelines for Application of materiality in verification, version 2.0 /B03/, a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records was done by the verification team and compared with the values indicated in the emission reduction spreadsheet.

Some inconsistencies were identified and subsequently finding was raised in the form of Clarification Request (CL), Corrective Action Request (CAR) and Forward Action Request (FAR). These findings are detailed in Appendix 4 and (CARs & CLs) are successfully closed and the FAR has not been raised in previous verification. Therefore, related identified mistakes as listed in findings in Appendix 4 to this report have been determined to be immaterial. And thus, it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

SECTION D. Verification findings

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

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Not Applicable.

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

Means of verification	Document Review, Interview
Findings	CAR 02 has been raised and the same has been closed. Please refer to Appendix 04 for details.
Conclusion	Verification team confirms that the latest available version of the monitoring report template has been used and the MR is in compliance with the monitoring report form and related monitoring report template guide. As verified from on-site interview the audit team confirm the project implementation and operation complies with the project design document /02/. The starting date of operation is 11/05/2019, (conservative selected date among the COD dates of all units 18E, 18N + NX, and 18S following COD certificates) /4/ which is confirmed from the registered PDD and validation report /02/. The project activity involves installation and operation of solar power plant in the Thuan Nam District, Ninh Thuan Province, Vietnam with capacity 405 MWp. All project units are commissioned in between 22/04/2019 and 11/05/2019 /04/. The project boundary in the registered PDD /02/ is in line with the actual project boundary. Since solar energy is clean energy, project activity does not involve any fossil fuel firing and hence no greenhouse gases are involved in the project activity. The power generation from the project activity replaces the equal amount of power which otherwise would have been supplied from the fossil fuel dominated grid. Carbon Check confirms that the solar power plants are operational through on-site visits and interviews. The project consists of three power plant units with total installed capacity of 405 MWp. The technical specification of the solar power project /9/, the meter details provided /5/, commissioning dates /4/ etc. had also been noted which were found to be consistent during onsite visit. It is noted that no changes have been observed or identified, that may impact the additionality. No addition of component nor extension of technology, no addition nor removal of project sites, no change of values of the actual operational parameter relevant to determination of emission reductions which are within the control of the PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology ACM0002 – Grid-connected electricity generation from renewable sources (Version 19.0) /B01/. The operational status of three solar power plant units, impact on

	identified SDGs from 01/03/2023 to 31/05/2024 has been taken into consideration. A well setup feedback mechanism is available in the site of the solar power plant units. PD has maintained grievance logbooks /14/ and take feedback stakeholder during the monitoring period. This has been verified with the grievance log- book /14/, and it was verified by the VVB and confirms that there is no legal contests or disputes to any aspect of the project through the available ongoing grievance input mechanisms or any other direct means. PD has submitted the training records /08/ during the verification to confirm that that staffs are properly trained. This has been verified by the VVB. Verification team has checked the information in the monitoring report /01/ and compared it against the PDD /02/ and found to be consistent. Verification team confirms that: a) The project activity is implemented as per PDD /02/. b) The actual operation of the proposed project activity is in line with the registered PDD /02/. c) It has reviewed the PDD /02/ including the monitoring plan, the applied monitoring methodology and found that the final MR /01/ for this monitoring period is in line with all the above-mentioned documents. Verification team of Carbon Check based on review of records and on-site interviews confirms that a robust and effective grievance addressal mechanism is in place and however, no grievances were reported during the monitoring period /14/. In summary, the monitoring period is reasonable, and the operation of the project activity is in accordance with revised PDD /02/.
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D.3. Post-registration changes

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

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Not Applicable

D.3.2. Corrections

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Not applicable

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

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¹ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

Not Applicable

D.3.4. Inclusion of a monitoring plan

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Not applicable

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

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Not applicable.

D.3.6. Changes to the project design

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Not Applicable

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

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Not applicable

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

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4 of this document.
Conclusion	The verification team has checked the actual monitoring plan against the registered monitoring plan in the PDD /02/, monitoring methodology /B01/ and applicable tools /B05/. Furthermore, the verification team has checked monitoring system by means of comparison with the information given in the monitoring plan and monitoring methodology. The monitoring plan is completely in accordance with the approved methodology /B01/ applied by the registered PDD /02/.

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

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

Means of verification	Document Review, Interview.
Findings	Please refer to Appendix 4 of this document.
Conclusion	Verification team confirms that the data and parameters fixed ex ante are in compliance with the registered PDD /02/ and monitoring plan. Please refer to the Annex 1.

D.5.2. Data and parameters monitored

Means of verification	Document Review, Interview
Findings	CAR 05 was raised for the PP to address and then was closed successfully. Please refer to Appendix 4 of this document.
Conclusion	The verification team confirms that the data and parameters monitored are in compliance with the registered PDD /03/ and the monitoring plan. It is confirmed that the verification team assessed the data/information flow from the point of monitoring to emission reduction calculation and

	found no gap in the same. Please refer to the Annex 2 for assessment of each parameter.
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D.5.3. Implementation of sampling plan

Means of verification	Document Review, Interview
Findings	No finding raised
Conclusion	Not Applicable for the project activity.

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

Means of verification	Document Review, Interview
Findings	CL 03, CAR 05 have been raised and the same has been closed. Please refer to Appendix 4 of this document.
Conclusion	As per section B.7.1 of registered PDD, calibration frequency is three (3) years for backup meters and one year for main (billing) meters. Carbon Check is able to confirm that the meters were duly calibrated by the EVN during the on site inspection and by desk review of calibration certificates /07/, and the PPA /12/ together with calibration regulation /19. VVB confirmed that the backup meters have been implemented in full compliance with the registered monitoring plan in the GS registered PDD /02/. However, it was observed that the calibration interval of the main (billing) meters exceeded the one-year requirement by EVN. As per paragraph 9.4.19, Validation and Verification Standard V2.0, the emission reduction must be re-calculated by adopting a conservative approach: <i>a. Applying the maximum permissible error² of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; or</i> <i>b. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.</i> The VVB reviewed the updated ER spreadsheet/03/ and MR /01/, and confirmed that emission reductions during the delayed calibration period in 2024 were conservatively re-calculated using the maximum permissible error based on the meter accuracy (i.e., 0.2%). The VVB found this adjustment to be correct and acceptable.

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

D.7.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4 of this document.
Conclusion	Baseline Emission: As per the PDD /02/ and the applied methodology /B01/, baseline emission is calculated as per the equation 11 of ACM0002 version 19.0 /B01/ as follows: $BE_y = EG_{PJ, \text{ grid, } y} \times EF_{\text{grid, CM, } y}$

² The maximum permissible errors of all the measuring instruments are specified by the respective manufacturers as part of their technical specifications

Where,

BE_y = Baseline emissions in year y (t CO₂/yr)

$EG_{PJ, \text{ grid}, y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the GS project activity in year y (MWh/yr)

$EF_{\text{grid}, \text{ CM}, y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y (t CO₂/MWh) calculated using Tool 07.

$EG_{PJ, y} = EG_{\text{facility}, y}$

$EG_{\text{facility}, y}$ = Quantity of net electricity generation supplied by the project plant to the grid in year y (MWh/y)

The Combined margin CO₂ emissions factor in year y (tCO₂/MWh), $EF_{\text{grid}, \text{ CM}, y}$, is fixed ex-ante for the duration of the crediting period and is 0.8492 tCO₂e /MWh.

The total electricity supplied to the Grid as per the MR /03/ and ER/03/ for the current monitoring period is 799,666 MWh.

Hence the baseline emission for the project activity is 799,791 MWh x 0.8492 tCO₂e /MWh which is 679,201 tCO₂e for the current monitoring period.

Hence $BE_y = 679,201$ tCO₂e (for this current monitoring period).

Symbol	Unit	01/03/2023 – 31/12/2023	01/01/2024 – 31/05/2024
$EG_{PJ, \text{ grid}, y}$	MWh	512,447	287,219
$EF_{\text{grid}, \text{ CM}, y}$	tCO ₂ /MWh	0.8492	
BE_y	tCO ₂	435,182	243,913
Total		679,095	

Carbon Check confirms that baseline emissions have been appropriately calculated and are consistent with on-site assessment, the applied methodology /B01/, ER Sheet /03/ and registered PDD /02/.

D.7.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4 of this document.
Conclusion	Project emission: In line to the applied methodology ACM0002, version 19.0 /B01/: $PE_y = 0$ (solar power project). Carbon Check confirms that baseline emissions have been appropriately calculated and are consistent with on-site assessment, the applied methodology and registered PDD /02/.

D.7.3. Calculation of leakage GHG emissions

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4 of this document.
Conclusion	Leakage Emission: In line to the applied methodology ACM0002, version 19.0 /B01/: $LE_y = 0$ Carbon Check confirms that no leakage emissions are accounted in the estimation of emission reduction as per the applied methodology.

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

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4.
Conclusion	Emission Reductions: The emission reductions in this monitoring period are calculated in line with the applied methodology ACM0002, version 19.0 /B01/: $ER_y = BE_y - PE_y$ Where, ER_y is the total emission reductions of the project activity during the year y in tCO _{2e} ; BE_y is the baseline emissions for the project activity during the year y in tCO _{2e} ; PE_y is the emissions for the project activity during the year y in tCO _{2e} ; As explained in section E.7.1 above, the resulted Baseline emissions (BE_y) for the monitoring period is 679,095 tCO _{2e} . Similarly, as explained in section E.7.2 and section E.7.3 project emission is zero for the monitoring period. Hence, resulted emission reduction for the monitoring period is 679,095 tCO _{2e} . Carbon Check confirms that emission reduction has been appropriately calculated and are consistent with the applied methodology /B01/, PDD and the ER sheet /03/.

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

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4.
Conclusion	The ex-ante estimates value of the emission reductions for the monitoring period as per the registered PDD /02/ is 712,474 tCO _{2e} (For 457 days) and the actual emission reductions achieved for the monitoring period is 679,095 tCO _{2e} .

	SDG	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
	13	712,474 tCO ₂ e (For 457 days)	679,095 tCO ₂ e (For 457 days)
It is observed that there is a decrease in energy generation compared to the estimated value. The electricity generation from the solar photovoltaic panels vary significantly depending upon the characteristics of solar irradiance availability and other technical parameters like panel tilt and orientation, system efficiency or capacity factor (CF) and other distribution losses. The emission reduction calculations provided in the spreadsheet /03/ have been verified to be correct and in line with the registered PDD /02/.			

D.7.6. Comparison of actual SDG impacts achieved with estimates in registered PDD

Means of verification	Document Review, Interview		
Findings	Please refer to Appendix 4.		
Conclusion	In addition to SDG 13 comparison in section D.7.5 above, SDG 07 and SDG 08 impacts achieved during the current MP are compared with estimates in the registered PDD as follows:		
	SDG	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
	8	Jobs: 82 Training: 2	Jobs: 57 Training: 9
	7	838,994 MWh	799,666 MWh
	The difference between estimated and actual values for SDG parameters has been provided in section D.7.6 of this report.		

D.7.7. Remarks on difference from estimated value in registered PDD

Means of verification	Document Review, Interview
Findings	Please refer to Appendix 4.
Conclusion	The ex-ante estimates value of the emission reductions for the monitoring period as per the registered PDD /02/ is 712,474 tCO₂e (For 457 days) and the actual emission reductions achieved for the monitoring period is 679,095 tCO₂e. For SDG 13, the actual emission reduction is lower (4.69%) than the estimated value. The electricity generation from the solar photovoltaic panels vary significantly depending upon the characteristics of solar irradiance availability and other technical parameters like panel tilt and orientation, system efficiency or capacity factor (CF) and other distribution losses. Hence the obtained value is less. The monitoring report /01/ provides the reason for the decrease in the actual emission reduction and the same was confirmed by the verification team by interviewing the representatives of the PD and by reviewing the actual implementation status of the project. The justification provided by the PP are found appropriate.

	While the estimated electricity generation of the project is calculated as 838,994 MWh /02/, the project produced 799,666 MWh /03/ of electricity in the monitoring period. The percentage difference has been summarized as follows: Electricity generation (SDG 7): $[838,994 \text{ MWh} - 799,666 \text{ MWh}] / 838,994 \text{ MWh} = 4.69\%$ Emission reduction(SDG 13): $[712,474 \text{ tCO}_2\text{e} - 679,095 \text{ tCO}_2\text{e}] / 712,474 \text{ tCO}_2\text{e} = 4.69\%$ For other SDG parameters, PD has provided justification in the Monitoring report and assessment of the same is provided below: • SDG 7: The actual value is lower than the estimated value, which is deemed appropriate and thus acceptable to the VVB. • SDG 8: The actual value is lower than the estimated value, which is deemed appropriate and thus acceptable to the VVB. • SDG 13: The actual value is lower than the estimated value, which is deemed appropriate and thus acceptable to the VVB.
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D.7.8. Stakeholder Consultation

Means of verification	Document Review, Interview
Findings	No findings in this section
Conclusion	The projects consisted of two rounds of local stakeholder consultation (LSC) and stakeholder feedback (SFR). The local stakeholder consultation meetings were conducted on 13/03/2019, 14/03/2019, and 14/05/2019 with different set of stakeholders/01/ /20/. In addition, the project developer has conducted a stakeholder's feedback round (SFR) from 13/06/2019 till 12/08/2019 to obtain feedback which was done in accordance with the GS guidelines. In addition, the Continuous Input and Grievance Mechanism /14/ are in place which can be accessed in project's office site, Quan The Hamlet, Phuoc Minh Commune, Thuan Nam District, Ninh Thuan Province, Vietnam. PD follows the following three methods for continuous feedback and ongoing communications with stakeholders during project implementation. These are: a) Grievance register maintained at regional office/project site. b) Telephone access. c) Internet/Email access It has been verified by the onsite visit and by checking the grievances records /14/ that no official disputes or grievance letters were received during the monitoring period. This information has been checked and confirmed by the verification team.

SECTION E. Internal quality control

The final verification report passed a technical review before being submitted to the client for forward submission to Gold Standard (GS4GG). A technical reviewer qualified in accordance with Carbon Check's qualification scheme for GS validation and verification performed technical review.

SECTION F. Verification/Certification opinion

Carbon Check (India) Private Ltd. (Carbon Check) has performed the 03rd periodic verification of the registered GS Project Activity "BIM Solar Farm" "(GS 7525)".

The verification team assigned by the VVB concludes that the project activity as described in the registered PDD /02/ and the Monitoring report /01/, meets all relevant requirements of the Gold Standard/ UNFCCC /B02, B03/. The verification has been conducted in-line with the GS4GG/ UNFCCC requirements project activities /B02, B03/.

Verification methodology and process

The Verification team confirms the contractual relationship signed /15/ on 18/11/2024 between the VVB, Carbon Check (India) Private Ltd. and the Project Participants (BIMRE and BIME). The team assigned to the verification meets the Carbon Check's internal procedures including the UNFCCC/GS requirements for the team composition and competence. The verification team has conducted a thorough contract review as per UNFCCC/GS and Carbon Check's procedures and requirements.

The verification has been performed as per the requirements described in the GS4GG/UNFCCC /B02, B03/ and constitutes the review and completion of the following steps:

- Reviewing the Registered PDD /02/;
- Receipt of the MR (Initial and Final version) /01/;
- Desk review of the MR /01/ and other relevant documents including documents related to the project activities in emission reductions;
- Review of the applied monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources, Version 19.0 /B01/;
- Review of any CMP and EB decisions, clarifications and guidance;
- On-site Audit (07/05/2025);
- Resolution of CARs and CLs raised during verification.
- Issuance of Verification Report

The project activity was correctly implemented according to selected monitoring methodology /B01/, monitoring plan and the PDD /02/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the document review and on-site audit interviews, the verification team confirms that the project activity has resulted in the 679,095 tCO₂e /03/ emission reductions during the reported monitoring period.

This statement covers verification period from 01/03/2023 to 31/05/2024 (including both the dates).

The VVB has raised 06 CLs and 06 CARs all of which are satisfactorily closed by the project proponent.

The VVB considers necessary to give reasonable assurance that reported GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology and the monitoring plan contained in the PDD are fairly stated.

The VVB, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to 679,095 tCO₂e equivalent and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records.

The following GS VERS has been certified by the VVB:

Monitoring Period	VER (tCO₂e)
01/03/2023-31/12/2023	435,182
01/01/2024-31/05/2024	243,913
Total for the monitoring period	679,095

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CA	Corrective Action/ Clarification Action
CER	Certified Emission Reduction
CAR	Corrective Action Request
Carbon Check	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent
DVR	Draft Verification Report
EB	CDM Executive Board
EF	Emission Factor
ER	Emission Reduction
EVN	Electricity Vietnam
FA	Final Approval
FAR	Forward Action Request
FVR	Final Validation Report
GHG	Greenhouse gas(es)
GS	Gold Standard
GS4GG	Gold Standard for Global Goals
GWh	Giga Watt Hour
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LE	Leakage Emissions
MP	Monitoring Period
MR	Monitoring Report
NA	Not Applicable
OSV	On Site Visit
PDD	Project Design Document
PE	Project Emissions
PP(s)	Project Participant(s)
QC/QA	Quality Control/ Quality Assurance
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VER	Verified Emission Reduction
VVS	Validation and Verification Standard
VVB	Validation & Verification body

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Limited

Certificate of Competency

Mr. Campal Deepak Kadam

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC 14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Validator/Verifier (Trainee)	☐ Gender Expert	☐ Plastic Waste Expert
☐ CCB Expert	☐ Legal Expert	☐ Financial Expert	☐ Environmental, Health and Safety financial matters
☐ SDG Expert	☐ Expert Social aspect	☐ Expert Environmental Aspect	☐ Health Expert
☒ Regional Expert for India		☒ FOEN Approved Technical Expert	☐ FOEN Approved Quality officer

in the following Technical Areas:

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

Issue Date

06th February 2025

Expiry Date

31st December 2025



Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025 ¹	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

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



Carbon Check (India) Private Limited

Certificate of Competency

Pham Tra Giang

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC 14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- | | | | |
|---|---|---|---|
| ☒ Validator | ☒ Verifier | ☐ Team Leader | ☒ Technical Expert |
| ☐ Technical Reviewer | ☐ Validator/Verifier (Trainee) | ☐ Gender Expert | ☐ Plastic Waste Expert |
| ☐ CCB Expert | ☐ Legal Expert | ☒ Financial Expert | ☐ Environmental, Health and Safety financial matters |
| ☐ SDG Expert | ☐ Expert Social aspect | ☐ Expert Environmental Aspect | ☐ Health Expert |
| ☒ Regional Expert for Vietnam | | ☐ FOEN Approved Technical Expert | ☐ FOEN Approved Quality officer |

in the following Technical Areas:

- | | | | | |
|--|--|----------------------------------|----------------------------------|----------------------------------|
| ☒ TA 1.1 | ☒ TA 1.2 | ☐ TA 2.1 | ☐ TA 3.1 | ☐ TA 4.1 |
| ☐ TA 4. n | ☐ TA 5.1 | ☐ TA 5.2 | ☐ TA 7.1 | ☐ TA 8.1 |
| ☐ TA 9.1 | ☐ TA 9.2 | ☐ TA 10.1 | ☐ TA 13.1 | ☐ TA 13.2 |
| ☐ TA 14.1 | ☐ TA 15.1 | ☐ TA 16.1 | | |

Issue Date

06th February 2025

Expiry Date

31st December 2025

Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

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CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

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



Carbon Check (India) Private Limited

Certificate of Competency

Ms. Indumathi C

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC 14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- | | | | |
|--|--|--|---|
| ☒ Validator | ☒ Verifier | ☒ Team Leader | ☒ Technical Expert |
| ☒ Technical Reviewer | ☐ Validator/Verifier (Trainee) | ☐ Gender Expert | ☒ Plastic Waste Expert |
| ☐ CCB Expert | ☐ Legal Expert | ☒ Financial Expert | ☐ Environmental, Health and Safety financial matters |
| ☒ SDG Expert | ☒ Expert Social aspect | ☒ Expert Environmental Aspect | ☐ Health Expert |
| ☒ Regional Expert for India and Srilanka | | ☒ FOEN Approved Technical Expert | ☐ FOEN Approved Quality officer |

in the following Technical Areas:

- | | | | | |
|--|--|----------------------------------|---|---|
| ☒ TA 1.1 | ☒ TA 1.2 | ☐ TA 2.1 | ☒ TA 3.1 | ☐ TA 4.1 |
| ☐ TA 4. n | ☐ TA 5.1 | ☐ TA 5.2 | ☐ TA 7.1 | ☐ TA 8.1 |
| ☐ TA 9.1 | ☐ TA 9.2 | ☐ TA 10.1 | ☒ TA 13.1 | ☒ TA 13.2 |
| ☐ TA 14.1 | ☐ TA 15.1 | ☐ TA 16.1 | | |

Issue Date

06th February 2025

Expiry Date

31st December 2025

Mr. Vikash Kumar Singh
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025 ¹	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL_FM 7.9 Certificate of Competency_V8.0_05022025

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

Appendix 3. Documents reviewed or referenced

S. No.	Document
1.	Monitoring Report (Version 1.0 Dated 14/04/2025); Updated Monitoring Report (Version 04, dated 29/07/2025)
2.	Revised PDD, Version 07.0, dated 14/07/2021
3.	Emission reduction calculation spread sheet (Version 1) dated 14/04/2025; Emission reduction calculation spread sheet (Version 3, dated 11/06/2025),
4.	Commissioning Certificates
5.	Electricity meter details
6.	Monthly generation and consumption records and corresponding invoices
7.	Calibration Certificates for electricity meters of 18E, 18N, 18NX and 18S plant units
8.	Training Records
9.	Technical specification of the project equipments (PV modules, inverters, transformers)
10.	Signed ODA
11.	Single Line diagram
12.	Power Purchase Agreement
13.	Employment records (payslip/payroll)
14.	Grievance Records
15.	Contract between Carbon Check and PP- 18/11/2024
16.	Electricity Generation License
17.	Annual Environmental Protection Reports
18.	Calibration Regulation
19.	Evidence of breakdown history
20.	HSE records

Background Documents

Ref no.	Reference Document
/B01/	ACM0002 – Grid-connected electricity generation from renewable sources (Version 19.0)
/B02/	1. Gold Standard Principles and Requirements version 2.1, dated 05/12/2024 2. GS Validation & Verification Body Requirements version 3.0, dated 12/11/2024
/B03/	CDM Guideline: Application of materiality in verifications, version 2.0
/B04/	Site Visit and Remote Audit Requirements and Procedures, version 2.0 dated 30/05/2023
/B05/	- TOOL 01: Tool for the demonstration and assessment of additionality; Version 07.0. - TOOL 02: Combined tool to identify the baseline scenario and demonstrate additionality; Version 07.0.

	- TOOL 03: Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion; Version 03.0. - TOOL 05: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation; Version 3.0 - TOOL 07: Tool to calculate the emission factor for an electricity system; Version 07.0 - TOOL 10: Tool to determine the remaining lifetime of equipment; Version 01 - TOOL 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 03.0.1
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Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this verification

CL ID	01	Section no.	A.1	Date: 08/05/2025
Description of CL				
1. PP is requested to provide the evidence to proof the compliance of the following statement: During the implementation of the program, the project must periodically provide information on the implementation status to the MoNRE every year before December 31 according to Form No. 05, Appendix V issued with this Decree” 2. PP is requested to provide Non-ODA Declaration to VVB for verification.				
PP response 1				Date: 29/05/2025
1. After PP completes the Environmental Impact Assessment report, PP will submit it to the Department of Natural Resources and Environment of Thuan Nam district and after receiving the report, they will stamp the date of receipt of the document as a way of confirmation. The file showing their confirmation stamp is attached. 2. The ODA declaration form is enclosed.				
Documentation provided by PP				
1. Environment Protection Annual Report_18E, 18N+NX and 18S 2024 2. Signed_ODA Declaration				
VVB assessment 1				Date: 09/06/2025
1. VVB did not see “Environmental Impact Assessment Reports” in the provided supporting documents. PO is requested to check the same. Hence this CL remains open. 2. ODA declaration yet to be submitted to the VVB. Hence this CL is open. Further PP is requested to provide the date of each response and documentation provided.				
PP response 2				Date: 11/06/2025
The documents have been re-submitted.				
Documentation provided by PP				
1. Environment Protection Annual Report_18E, 18N+NX and 18S 2024 2. Signed_ODA Declaration				
VVB assessment 2				Date: 24/06/2025
The required supporting documents have been provided to VVB. Hence the CL is closed.				

CL ID	02	Section no.	B.1	Date: 08/05/2025
Description of CL				
1. It is observed that there are more than five (5) types of PV model using in the Project as reported in the MR, e.g., JKM325PP-72-V and JKM330PP-72-V. Please clarify. 2. Further, it is observed that the actual numbers of inverters, inverter stations, and PV panels of the plants are different from the numbers reported in MR. Please clarify.				
PP response 1				Date: 29/05/2025
1. MR has been amended to include the additional types of PV model.				

2. The number of inverters amended in the MR are in accordance with the Electricity Operation license. The difference in the number of panels at 18N is due to typo, which is amended in the MR.	
Documentation provided by PP	
<i>Not applicable.</i>	
VVB assessment 1	Date: 09/06/2025
1. The PV models are added correctly. 2. The number of inverters has been amended in the MR in accordance with the Electricity Operation License. VVB checked and found the revision is made acceptable. Hence this CL is closed.	

CL ID	03	Section no.	C	Date: 08/05/2025
Description of CL				
In the referenced section of the MR, PP has not clearly specified the serial numbers of each billing meter. PP needs to clearly specify the same.				
PP response				Date: 29/05/2025
Serial numbers of each meters has been revised in the MR.				
Documentation provided by PP				
<i>Not applicable.</i>				
VVB assessment				Date: 09/06/2025
The serial numbers of all electricity meters have been added in the MR, in line with the supporting documents. Hence the CL is closed.				

CL ID	04	Section no.	C	Date: 08/05/2025
Description of CL				
1. There is missing the information of meters of 18NX in page 10 (section C) of the MR. PP is requested to check and correct the same. 2. The serial number of main meter 275M observed on-site (SN: 22019513) differs from that in the calibration record (SN: 18066338). The PP is requested to clarify these discrepancies and provide supporting documentation. 3. The VVB has identified a lack of clarity regarding whether the backup meters (e.g., 131B, 275B, and 272B) were calibrated and/or verified in conjunction with the main meters in 2023 and 2024, as indicated in this section. In particular, calibration and/or verification certificates for meters 131B and 272B for 2023 could not be located; only certificates from 2024 were available for review. The inconsistency was also noted for 275B which only its certificate in 2023 was available. The PP is requested to provide clarification on this matter and submit the necessary supporting evidence. 4. Additionally, the dates of the certificates and the dates of conducting the calibration/verification are not used consistently. The PP is requested to clarify this inconsistency as well.				
PP response				Date: 29/05/2025
1. The information of meters of 18NX is shown in page 10 in the meters' specifications table. 18NX is an expansion of 18N and therefore, the meter 275 is applicable for both 18N and 18NX as shown in the metering layout in Annex 2.				

2. As the crediting period for this MR is from 01/03/2023 to 31/05/2024, the serial number for 275M meter is SN: 18066338, which is supported with the 2 most recent inspection certificates dated 07/03/2023 and 26/03/2024. The appearance of the 275M meter recorded on the site visit date with SN 22019513 is because the 18N changed this meter on 24/03/2025. The inspection certificate of the replacement meter is attached. 3. MR has been revised to reflect the certificates dates of the main and backup meters. 4. MR has been revised to use the certificates dates.	
Documentation provided by PP	
2. 18N_Main Metering Calibration Cert_2025	
VVB assessment	Date: 09/06/2025
1. The information of meters of 18NX has been added in the MR. Hence this CL is closed. 2. The justification for the different serial numbers of the 275M meter has been provided, along with the appropriate calibration certificates. However, it remains unclear to VVB on the timing of the meter change. The PP is requested to submit the official record of replacing meter SN 18066338 with meter SN 22019513, including confirmation by the relevant parties (e.g., EVN). This CL remains open. 3. The calibration dates of the meters have been updated in the MR. However, it remains unclear why meters 131B and 272B were not calibrated or verified in 2023, and meter 275B was not calibrated or verified in 2024, as required by the PPA, which stipulates annual calibration for all meters. Therefore, the CL remains open. 4. The calibration date of the main meter 131M meter is mentioned in the MR as 07/03/2023 which is not consistent with the date in calibration certificate (22/02/2023). PP is requested to check and correct the same. Therefore, the CL remains open.	
PP response 2	Date: 11/06/2025
2. The memo for the record of replacement of meter SN 18066338 with meter SN 22019513 has been submitted for verification. 3. As stated in the MR, the requirement for annual calibration is only applicable for the main meters, whereas the other meters are verified once in 3 years interval. As 131B, 272B and 275B are backup meters and not the main meters, they do not require annual verification. 4. The calibration date of the main meter 131M mentioned in the MR is consistent with the date in the calibration certificate (07/03/2023) in page 2 of the calibration certificate.	
Documentation provided by PP	
2. Metering replacement memo	
VVB assessment 2	Date: 24/06/2025
The revisions have been made together with appropriate supporting documents. VVB found them acceptable, hence the CL is closed.	

CL ID	05	Section no.	D.2	Date: 08/05/2025
Description of CL				
The monitoring parameter for the SDG Indicator is listed as “Net Power Generation”; however, the description of this parameter specifies “quantity of <i>gross electricity generated</i> and supplied by the project power plant to the grid”. Please clarify this discrepancy.				
PP response				Date: 29/05/2025
MR has been revised to “quantity of net electricity generated and supplied by the project powerplant to the grid”.				
Documentation provided by PP				

VVB assessment	Date: 09/06/2025
The revision is made acceptable. Hence this CL is closed.	

CL ID	06	Section no.	E.2	Date: 08/05/2025
Description of CL				
The PP is requested to clarify the discrepancy between the reported number of staff attended (page 18 of the MR) and the corresponding records. Additionally, two Occupational Health and Safety (OHS) training records for 2024 lack date information. Please address these issues in the response and provide supporting documentation.				
PP response 1				Date: 29/05/2025
VVB to clarify the discrepancy between the reported number of staff attended (page 18 of the MR) and the corresponding records.				
As the training date for the Occupational Health and Safety falls on 13/09/2024, which is outside of the monitoring period, the 2 training record will be excluded in the MR.				
Documentation provided by PP				
<i>Updated MR</i>				
VVB assessment 1				Date: 09/06/2025
VVB has checked the records and found that some staff recorded in the training records are from BIM Wind and/or BIM 4. PP is requested to clarify whether they are from BIM Solar Plants (18E, 18N+NX, and 18S).				
Further, the number of trainings conducted must be consistent throughout the report.				
Hence, the CL is open.				
PP response 2				Date: 11/06/2025
Staff from BIM 4 refers to the expansion of the existing facility 18NX.				
The number of staff recorded in the training records has been revised in the MR to exclude staff from BIM Wind.				
Documentation provided by PP				
<i>Updated MR</i>				
VVB assessment 2				Date: 24/06/2025
The revision has been made and accepted by the VVB. Hence the CL is closed.				

Table 2. CARs from this Verification

CAR ID	01	Section no.	MR	Date: 08/05/2025
Description of CAR				
<u>Editorial inconsistencies</u>				
1. Section A.1: "<i>Vietnam is a non-annex country...</i>"- PP is requested to correct the typo. 2. Section E.5.1: The statement "<i>Crediting period start date: 1 March 2023</i>" is incorrect. PP is requested to revise this information and to also provide the end date of the monitoring period to enable calculation of MWh for 2024. 3. Some typos in the MR that need to be edited. PP is requested to check and correct the same.				

PP response 1	Date: 29/05/2025
1. Amended. 2. The crediting period and monitoring period has been revised in section E.5.1 in the MR. 3. Amended.	
Documentation provided by PP	
VVB assessment 1	Date: 09/06/2025
1. The typo mistake has not been amended. PP is requested to check and correct the same. Hence this CAR remains open. 2. The correction has been made acceptable. Hence this CAR is closed. 3. The correction has been made acceptable. Hence this CAR is closed.	
PP response 2	Date: 11/06/2025
1. Amended in the MR.	
Documentation provided by PP	
<i>Not applicable.</i>	
VVB assessment 2	Date: 24/06/2025
The revision has been made and accepted by the VVB. Hence, the CAR is closed.	

CAR ID	02	Section no.	A.1	Date: 08/05/2025
Description of CAR				
VVB found that the COD of 18E was 23/04/2019 which is different from the COD provided in section A.1 of the MR. PP is requested to provide the correct date.				
PP response				Date: 29/05/2025
The COD of 18E has been revised to 23/04/2019 in the MR.				
Documentation provided by PP				
<i>Not applicable.</i>				
VVB assessment				Date: 09/06/2025
The revision has been made acceptable. Hence this CAR is closed.				

CAR ID	03	Section no.	A.3	Date: 08/05/2025
Description of CAR				
As per MR Template Guide (v1.1), section A.3 must include exact references to the applied methodology, including any methodological tools, where applicable. While these references are included in the registered PDD, they are not reflected in the MR. PP is requested to clarify the omission of the methodological tools in this section.				
PP response				Date: 29/05/2025
Tools referenced are included in the revised MR.				
Documentation provided by PP				
<i>Not applicable.</i>				
VVB assessment				Date: 09/06/2025
The revision is made and accepted by VVB. Hence the CAR is closed.				

CAR ID	04	Section no.	B.1	Date: 08/05/2025
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Description of CAR	
Section B.1 of the MR is found to be missing the information on the implementation and actual operation of the project including relevant dates (e.g., construction, commissioning, start of operation), following the MR template guide (v1.1). PP is requested to clarify and take corrective actions accordingly.	
PP response	Date: 29/05/2025
The COD dates have been added in the revised MR.	
Documentation provided by PP	
<i>Updated MR version 03 dated 12/06/2025</i>	
VVB assessment	Date: 09/06/2025
The missing information has been added in the revised MR. VVB has checked and found it correctly. Hence the CAR is closed.	

CAR ID	05	Section no.	C	Date: 08/05/2025
Description of CAR				
The VVB noted that the calibration intervals of the main meters reported in the MR exceed one year, which is not consistent with EVN requirements stated in the PPA. The PP is requested to justify the discrepancy and take appropriate action.				
PP response 1				Date: 29/05/2025
PP will always follow the regulation of Vietnam and do not have any control of the timing of the verification of meters which were carried out by EVN themselves.				
Therefore, it is at EVN's discretion if they were to delay the verification process slightly and ultimately, all calibration certificates were certified by EVN as provided in the supporting documents.				
Documentation provided by PP				
<i>Not applicable.</i>				
VVB assessment 1				Date: 09/06/2025
In case the calibration of the meters has been delayed more than a year, according to paragraph 9.4.19, Validation and Verification Standard V2.0, the emission reduction must be re-calculated by adopting a conservative approach:				
<i>a. Applying the maximum permissible error³ of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; or</i>				
<i>b. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.</i>				
PP is requested to check and correct the same. Hence this CAR remains open.				
PP response 2				Date: 11/06/2025
Since the period where the calibration intervals of the main meters have exceeded the 1 year mark only happen in Mar 2024, the metered data for Mar 2024 has been recalculated to apply the maximum permissible error based on the accuracy of the meter listed in the PDD at 0.2S (0.2% of maximum error).				
All the values have been revised in the MR and ER spreadsheet.				
Documentation provided by PP				

³ The maximum permissible errors of all the measuring instruments are specified by the respective manufacturers as part of their technical specifications

Updated ER spreadsheet dated 11/06/2025

Updated MR version 03 dated 12/06/2025

VVB assessment 2

Date: 24/06/2025

The corrections in ER calculation are made following the VVS V2.0 requirement. VVB found it acceptable, hence the CAR is closed.

CAR ID	06	Section no.	Pending Documents	Date: 08/05/2025
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Description of CAR

PP is requested to provide the following documents (if any):

1. Manufacture specification of solar panels, inverters and transformers (including 25-year lifetime), which are parts of the equipment purchase contracts.
2. Monthly power generation and consumption records during the monitoring period.
3. Organization of the monitoring team.
4. A (sample/template) labour contract (the sensitive information can be hidden)/pay slip/payroll records.
5. Job description of a monitoring team member.
6. Local stakeholder consultation records for the monitoring period (if any).
7. Grievance redress mechanism and records (if any).
8. HSE issue records during the monitoring period (if any).
9. Regulation for calibration of energy meters.
10. Calibration/verification certificates of the electricity meters.
11. Evidence of breakdown history during the monitoring period.
12. Some invoices are not readable (due to formatting error). Please check and provide the invoices of:
 - Electricity import amount in April 2023 of 18N+NX and 18S.
 - Electricity export amount in June 2023 of 18N+NX.
 - Electricity export amount in November 2023 of 18S.
 - Electricity export amount in December 2023 of 18N+NX.
 - Electricity export amount in February 2024 of 18N+NX.
13. PPA of 18NX
14. Single line diagram of the power plants

PP response 1

Date: 29/05/2025

The documents have been attached for reference.

Documentation provided by PP

VVB assessment 1

Date: 09/06/2025

The following are still missing:

4. A (sample/template) labour contract (the sensitive information can be hidden)/pay slip/payroll records.
 5. Job description of a monitoring team member.
 11. Some evidence of breakdown history during the monitoring period has been provided. However, all figures presented in Annex 1 of the MR must be verified and supported by appropriate documentation. The PP is requested to ensure that all data is clearly demonstrated with corresponding evidence.
 12. Electricity generation invoice in August 2023 of 18N+NX and 18S.
- The CAR remains open.

PP response 2

Date: 11/06/2025

The documents have been attached for reference.

Documentation provided by PP	
<i>Payroll</i> <i>Breakdown History</i> <i>Invoices</i> <i>Environmental Protection Annual Reports</i>	
VVB assessment 2	Date: 24/06/2025
The supporting documents have been provided as requested. Hence the CAR is closed.	

Table 3. FARs from this verification

FAR ID	-	Section no.	Date: DD/MM/YYYY
Description of FAR			
Nil			
PP response			Date: DD/MM/YYYY
Documentation provided by PP			
VVB assessment			Date: DD/MM/YYYY

No FAR has been raised in the previous verification.

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

Parameter	$EF_{grid,OM,y}$
Data unit	tCO ₂ /MWh
Default values used	0.8336
Purpose of data	For the calculation of the Baseline Emission
Source of verification of the source	Operating margin is calculated as per tool to calculate the emission factor version 07 and data for the same is taken conservatively. The value is fixed for the entire crediting period.

Parameter	$EF_{grid,BM,y}$
Data unit	tCO ₂ /MWh
Default values used	0.8961
Purpose of data	For the calculation of the Baseline Emission
Source of verification of the source	Build margin is calculated as per tool to calculate the emission factor version 07 and data for the same is taken conservatively. The value is fixed for the entire crediting period.

Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ /MWh
Default values used	0.8492
Purpose of data	For the calculation of the Baseline Emission
Source of verification of the source	Combined margin is calculated as per tool to calculate the emission factor version 07 and data for the same is taken conservatively. The value is fixed for the entire crediting period.

Annex 2: Assessment of data and parameters monitored

Monitoring Parameter Requirement	Assessment/ Observation by the VVB																						
Relevant SDG Indicator	SDG 07 7.2.1: Renewable energy share in the total final energy consumption																						
Data / Parameter: (as in monitoring plan of PDD):	Net Power Generation																						
Unit	MWh/year																						
Measuring frequency/Time Interval:	Continuous measurement with daily recording (The meters can capture half hourly generation data and the data would be logged through the SCADA system in a daily basis. However, readings will be downloaded on a monthly basis for record keeping and billing to the EVN.)																						
Reported value	<table><tr><th rowspan="2">Monitoring Period</th><th colspan="3">Generation in MWh</th></tr><tr><th>18E</th><th>18N+NX</th><th>18S</th></tr><tr><td>01/03/2023 – 31/12/2023</td><td>30,975</td><td>416,018</td><td>65,453</td></tr><tr><td>01/01/2024 – 31/05/2024</td><td>21,678</td><td>228,919</td><td>36,622</td></tr><tr><td>Total</td><td colspan="3">799,666</td></tr></table>				Monitoring Period	Generation in MWh			18E	18N+NX	18S	01/03/2023 – 31/12/2023	30,975	416,018	65,453	01/01/2024 – 31/05/2024	21,678	228,919	36,622	Total	799,666		
Monitoring Period	Generation in MWh																						
	18E	18N+NX	18S																				
01/03/2023 – 31/12/2023	30,975	416,018	65,453																				
01/01/2024 – 31/05/2024	21,678	228,919	36,622																				
Total	799,666																						
Verified Source of Data	The audit team has checked the monthly generation reports/10/ from the respective solar power plants of concerned the monitoring period (01/03/2023 to 31/05/2024). These monthly generation records have been cross checked with the invoices raised by PP to the grid authority /6/. Moreover, PP maintains reports of power generation from the SCADA system and the data is continuously monitored in the plant. Thus, after reviewing the submitted supporting documents /6/ and on-site visit assessment, the VVB confirms that quantity of electricity generated and supplied by the project power plant to the grid in year y has no discrepancies.																						
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes																						
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	The energy meters are installed and sealed by the EVN, in the presence of the representatives of the power producer. The details of meters and its calibration details are given below: <table><tr><td></td><td></td><td></td><td>Calibration Dates</td></tr></table>							Calibration Dates															
			Calibration Dates																				

	Plant Name	Meter Number	Serial Number	2023	2024 ⁴
	18E	131 Main	38152538	07/03/2023 (Valid until: 28/02/2026)	25/03/2024 (Valid until: 31/03/2027)
		131 Backup	40377372	-	25/03/2024 (Valid until: 31/03/2027)
	18N & 18NX	275 Main	18066338	07/03/2023 (Valid until: 28/02/2026)	26/03/2024 (Valid until: 28/02/2027)
		275 Backup	18080164	07/03/2023 (Valid until: 28/02/2026)	-
	18S	272 Main	18066336	07/03/2023 (Valid until: 28/02/2026)	26/03/2024 (Valid until: 28/02/2027)
		272 Backup	17051038	-	26/03/2024 (Valid until: 28/02/2027)
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place.				
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA				

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 07 Indicator 7.2.1: Renewable energy share in the total final energy consumption

⁴ Since the calibration of meters are not carried within a year, the error in generation and consumption for March 2024 is calculated separately in the ER spreadsheet.

Data / Parameter: (as in monitoring plan of PDD):	Auxiliary Power Consumption																						
Unit	MWh/year																						
Measuring frequency/Time Interval:	The meters can capture half hourly data and the data would be logged through the SCADA system in a daily basis. However, readings will be taken on a monthly basis for record keeping and billing to the EVN.																						
Reported value	In the monitoring period <table><tr><th rowspan="2">Monitoring Period</th><th colspan="3">Consumption in MWh</th></tr><tr><th>18E</th><th>18N+NX</th><th>18S</th></tr><tr><td>01/03/2023 – 31/12/2023</td><td>182</td><td colspan="2">1,957</td></tr><tr><td>01/01/2024 – 31/05/2024</td><td>90</td><td colspan="2">973</td></tr><tr><td>Total</td><td colspan="3">3,201</td></tr></table>				Monitoring Period	Consumption in MWh			18E	18N+NX	18S	01/03/2023 – 31/12/2023	182	1,957		01/01/2024 – 31/05/2024	90	973		Total	3,201		
Monitoring Period	Consumption in MWh																						
	18E	18N+NX	18S																				
01/03/2023 – 31/12/2023	182	1,957																					
01/01/2024 – 31/05/2024	90	973																					
Total	3,201																						
Verified Source of Data	The audit team has checked the monthly consumption reports /10/ from the respective solar power plant units of concerned the monitoring period (01/03/2023 to 31/05/2024). These monthly consumption records have been cross checked with the invoices by EVN to the PP /11/. Moreover, PP maintains reports of power consumption from the SCADA system and the data is continuously monitored in the plant. Thus, after reviewing the submitted supporting documents /10/11/ and on-site visit assessment. The VVB confirms that quantity of electricity consumed by the project power plant to the grid in year y has no discrepancies.																						
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes																						
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	The energy meters are installed and sealed by the EVN, in the presence of the representatives of the PP. The details of meters and its calibration details are given below: <table><tr><th rowspan="2">Plant Name</th><th rowspan="2">Meter Number</th><th rowspan="2">Serial Number</th><th colspan="2">Calibration Dates</th></tr><tr><th>2023</th><th>2024⁵</th></tr><tr><td rowspan="2">18E</td><td>131 Main</td><td>38152538</td><td>07/03/2023 (Valid until: 28/02/2026)</td><td>25/03/2024 (Valid until: 31/03/2027)</td></tr><tr><td>131 Backup</td><td>40377372</td><td>-</td><td>25/03/2024 (Valid until: 31/03/2027)</td></tr></table>				Plant Name	Meter Number	Serial Number	Calibration Dates		2023	2024 ⁵	18E	131 Main	38152538	07/03/2023 (Valid until: 28/02/2026)	25/03/2024 (Valid until: 31/03/2027)	131 Backup	40377372	-	25/03/2024 (Valid until: 31/03/2027)			
Plant Name	Meter Number	Serial Number	Calibration Dates																				
			2023	2024 ⁵																			
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	131 Backup	40377372	-	25/03/2024 (Valid until: 31/03/2027)																			

⁵ Since the calibration of meters are not carried within a year, the error in generation and consumption for March 2024 is calculated separately in the ER spreadsheet.

	18N & 18NX	275 Main	18066338	07/03/2023 (Valid until: 28/02/2026)	26/03/2024 (Valid until: 28/02/2027)
		275 Backup	18080164	07/03/2023 (Valid until: 28/02/2026)	-
	18S	272 Main	18066336	07/03/2023 (Valid until: 28/02/2026)	26/03/2024 (Valid until: 28/02/2027)
		272 Backup	17051038	-	26/03/2024 (Valid until: 28/02/2027)
As per section B.7.1 of registered PDD, calibration frequency is three (3) years. Carbon Check is able to confirm that the meters were duly calibrated by the EVN during the on-site inspection and by desk review of calibration certificates /07/ and have been implemented in full compliance with the registered monitoring plan in the GS registered PDD /02/.					
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place.				
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA				

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 08 Indicator 8.5.1: Average hourly earnings of female and male employees, by occupation, age and persons with disabilities

Data / Parameter: (as in monitoring plan of PDD):	Employees' monthly wages
Unit	Vietnam Dong per employee
Measuring frequency/Time Interval:	Once for each monitoring period
Reported value	Detailed spreadsheet /13/ provided to GS-VVB contains hourly wages based on the employees': • Age • Position • Gender It has been observed during the site visit /9/ that there are 22 (out of 57) women were employed during the current monitoring, indicating that the project beneficiaries are common for both genders. Total number of jobs created by the project is 57 verified from the HR records. The VVB team has assessed job contracts and through on-site inspection for the respective monitoring period confirms that the PP is not discriminating in wages with respect to gender and disabilities.
Verified Source of Data	Employment /13/ and Training records /8/, salary slips /13/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data management ensures correct transfer of data and reporting of emission reductions and all necessary QA/QC processes are in place

In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	NA
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Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Relevant SDG Indicator	SDG 08 Indicator 8.8.1: Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status
Data / Parameter: (as in monitoring plan of PDD):	No of Fatal & Non-fatal injuries
Unit	Number
Measuring frequency/Time Interval:	Once for each monitoring period
Reported value	0 No fatal and non-fatal injuries occurred during the monitoring period.
Verified Source of Data	Health and Safety issue records /20/
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA
Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
In case only partial data are available because activity levels or non-activity parameters have not been	NA

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?	
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Monitoring Parameter Requirement	Assessment/ Observation by the VVB		
Relevant SDG Indicator	SDG 13 Indicator 13.3.2: Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions		
Data / Parameter: (as in monitoring plan of PDD):	No of awareness programmes		
Unit	Number		
Measuring frequency/Time Interval:	Once for each monitoring period		
Reported value	According to the registered GS PDD, the PP will provide awareness trainings regarding the climate change and mitigation measures during the crediting period. During the reported monitoring period, there are 11 trainings conducted for the employees.		
	Year	No of Trainings	No of Attendees
	2023	1 (Fire Drill) 1 (Fire Rescue) 1 (Electrical Safety) 1 (First Aid) 2 (Occupational Health and Safety)	15 - 35
	2024	1 (Crane Operation) 1 (Fire Fighting Drill) 2 (Occupational Health and Safety) 1 (Rescue Training)	2 - 43
Verified Source of Data	Training records /8/		
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes		
Assessment of details of monitoring equipment, its specification and calibration as per the requirements of registered PDD:	NA		

Does the data management (from data generation to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	NA
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