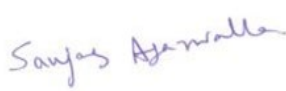




Carbon
—CHECK—

**Validation report form for renewal of crediting period for
GS project activities**

BASIC INFORMATION

Title and GS reference number of the project activity	BIM Solar Farm GS 7525
Number and duration of the next crediting period	2 nd Crediting period. Duration: 01/06/2024 to 31/05/2029
Version number of the validation report	5.0
Completion date of the validation report	16/09/2024
Version number of PDD to which this report applies	Version 11, dated 12/09/2024
Project participants	BIM Renewable Energy Joint Stock Company(BIMRE) – Viet Nam. BIM Energy Joint Stock Company(BIME)- Viet Nam
Host Party	Viet Nam
Applied methodologies and standardized baselines	ACM0002 – Grid-connected electricity generation from renewable sources (version 21.0)
Mandatory sectoral scopes	01
Conditional sectoral scopes, if applicable	N/A
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period	540,295 tCO ₂ e
Name of VVB	Carbon Check India (Private) Limited.
Name, position and signature of the approver of the validation report	 Sanjay Kumar Agarwalla, Technical Director

SECTION A. Executive summary

>> Purpose and general description of the project:

The project activity is a greenfield grid connected solar power plant with a total installed capacity of 405MW which comprises of three power plants as follows: Phunoc Ninh Commune, Highway 1A, Lac Tien Hamlet, Phunoc Minh Commune, Highway 1A, Quan The Hamlet, Phuoc Minh Commune. All the above plants are located at Thuan Nam District, Ninh Thuan Province, Viet Nam. The legal owner of 18N + 18NX & 18S is BIM Renewable Energy Joint Stock Company(BIMRE) and 18E is BIM Energy Joint Stock Company(BIME). Both BIMRE and BIME are the brands belonging to BIM Group (Viet Nam). The entire electricity generated by the solar farm will be fed into the Viet Nam National Grid without any Greenhouse Gas (GHG) emissions. The operational lifetime of the project is 25 years. The estimated electricity generation by the project activity is 671,195 MWh per annum. The electricity generation will result in a average emission reduction of 540,295 tCO₂/year. The total emission reduction will be 2.70 million tCO₂ for the second crediting period for 5 years. This leads to reduction of coal consumption to produce the electricity as well as the harmful GHG emissions. This contributes to SDG 13. In addition to the reduction of GHG emissions, the project intends to positively contribute to SDG goals 7 and 8.

Scope of Validation

The validation scope is to review the updated GS-PDD/01/ against the GS principles and requirements /B01/ and GS Validation and Verification standard version 1.0 /B03/. Validation of the renewal of crediting period is a requirement and it is seen as necessary to provide assurance about:

- (a) Changes in the Project as related to the GS General Eligibility Criteria
- (b) Incorporation of any relevant updates to the Gold Standard Requirements
- (c) Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements
- (d) Any Gold Standard activity, product, and methodology-specific Requirements
- (e) Demonstration of Ongoing Financial Need
- (f) The impact of new relevant national and/or sectoral policies and circumstances on the baseline;
- (g) The correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

Validation process

Validation is conducted using CCIPL's procedures in line with the GS Principles and Requirements /B01/ and applying standard auditing techniques. The validation assessment involved a document review of relevant documentation, the interview and on- site assessment and reporting. Validation is not meant to provide any consultancy toward the project participants. However, stated request for clarifications and/or corrective actions may have provided input for improvement of the project activity.

Conclusion

Carbon Check (India) Pvt. Ltd. (CC IPL) appointed by BIM Renewable Energy Joint Stock Company (BIMRE) and BIM Energy Joint Stock Company (BIME) performed the validation of the renewal of crediting period of the GS project (GS 7525) 'BIM Solar Farm', with regard to the relevant GS principles and requirements.

Carbon check (India) Private Ltd. Concludes the validation with positive opinion that the GS project (GS 7525) 'BIM Solar Farm' as described in the updated PDD/01/ version 11 dated 12/09/2024 meets all relevant GS requirements and principles and GS Validation and Verification standard version 1.0/B03/, and correctly applied the methodology ACM0002: Grid-connected electricity generation from renewable sources (Version 21.0)/B02/

Therefore, CCIPL recommends to GS4GG for Design certification renewal of the Project Activity.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation 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	Interview(s)	Validation findings
1.	Team Leader/Validator/Technical expert	IR	Gedam	Pallavi	Carbon Check India (Private) Limited	√	√	√	√
2.	Trainee Assessor	IR	Ghosh	Tarpan	Carbon Check India (Private) Limited	√	-	-	√
3	Local Expert	ER	Trang	Nguyen Hong Ngoc	Carbon Check India (Private) Limited	-	√	√	-

B.2. Technical reviewer and approver of the validation report for RCP

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	ER	Seshan	Ranganathan	ER
2.	Approver	IR	Agarwalla	Sanjay Kumar	CC IPL

SECTION C. Means of validation

C.1. Desk/document review

>> The updated GS PDD version 11 dated 12/09/2024 /01/, in particular the applicability of the methodology, the baseline determination, the emission reductions calculation /02/, the sustainability indicators, proposed design change and impacts on additionality were assessed as part of the validation. All documents reviewed or referenced during the validation are listed in Appendix 3.

C.2. On- site inspection

The VVB team has conducted the on-site inspection. Furthermore, VVB has considered the Site Visit and Remote Audit Requirements/B05/ and Procedures, version 2.0 /B08/ for conducting the onsite visit in accordance with the requirements stated in §3.1.1 /B08/.

Duration of on-site inspection: 21/03/2024				
No.	Activity performed on-site	Location	Date	Team Member
1.	Project activity, technical specifications, operational status	On-site	21/03/2024	Pallavi Gedam, Nguyen Hong Ngoc Trang
2.	Baseline Scenario			
3.	Project Boundary, Applicability of methodology			
4.	Monitoring plan, monitoring, and measuring systems			
5.	Data management and reporting, QA/QC systems			

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
01.	Nguyen	Trung Phuong	BIM Energy	21/03/2024	- Confirmation of technical specifications of the solar plant and monitoring meters - Baseline scenario - Project boundary - Applicability of the methodology - Revised grid emission factor calculation - Monitoring plan Data management and reporting, QA/QC systems - Monitoring / measuring systems - Metering guidelines, Meter specifications - Accuracy, make	Pallavi Gedam and Nguyen Hong Ngoc Trang
02.	Doan	Thug Phuong	BIM Energy	21/03/2024		
03.	Jaypee	Reambillo	BIM Energy	21/03/2024		
04.	Qun	Foo Xiao	C & W	21/03/2024		
05.	P.	Thirumalavan	C & W	21/03/2024		

					- Calibration requirements – procedure, frequency	
06.	Dan	Ngoc Vo	Local Stakeholder	21/03/2024	Discussion on ongoing feedback & input and grievance mechanism	
07.	Thoa	To Thi Kim	Local Stakeholder	21/03/2024		
08.	--	Luu Thi Dinh	Local stakeholder	21/03/2024		
09.	Nhan	Van Nguyen	Local stakeholder	21/03/2024		

C.4. Sampling approach

>>NA

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

The VVB has raised 03 clarifications, and 01 corrective action requests and successfully resolved by PP. 01 FAR has been raised during the design certification Validation review by GS.

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	Comparing the PDD /01/ with the PDD template provided by GS.
Findings	CAR 01 has been raised and successfully resolved. Details of the CAR has been mentioned in appendix 5
Conclusion	The validation team, through means of document review and interviews, determines the description in the Project Activity titled “GS7525 : “BIM Solar Farm”, as described in the PDD /01/, and correctly applies the baseline and monitoring methodology “Grid-connected electricity generation from renewable sources (Version 21.0)” /B02/ and requirements of GS4GG Validation and Verification Standard Version 1.0 /B03/ and GS4GG Principals and Requirements version 1.2./B01/. CC IPL confirms that the updated PDD version 11 dated 12/09/2024 has been prepared using GS PDD template version 1.5 of 29/06/2023 which is the latest available template and has been completed with relevant information as per the template requirements.

D.2. General Description of the Project Activity

Means of validation	DR, Interview
Findings	CL 01 has been raised and successfully resolved. Details of the CAR has been mentioned in appendix 5
Conclusion	The description of the project activity contained in the PDD /01/ is transparent, detailed and provides a clear overview of the project. Its content was confirmed by means of document review /01/ and interviews to validate the accuracy and completeness of the project description.

	The purpose of the project is to generate electricity from the solar power plant located at: Phunoc Ninh Commune, Highway 1A, Lac Tien Hamlet, Phunoc Minh Commune, Highway 1A, Quan The Hamlet, Phuoc Minh Commune. All the above plants are located at Thuan Nam District, Ninh Thuan Province, Viet Nam capacity of 405 MW and supply the electricity to the Viet Nam national grid. The operational lifetime of the project is 25 years. The project activity is currently in Viet Nam, the electricity supplied by the grid is relatively carbon demanding, with a combined margin emission factor of 0.8050 tCO₂/MWh. Estimated electricity generation by the project activity is 671,195 MWh per annum. The electricity generation will result in a total emission reduction of 540,295 tCO₂/year. The total emission reduction will be 2.70 million tCO₂ for the second crediting period for 5 years. The legal owner of the proposed project is BIM Renewable Energy Joint Stock Company (BIMRE) and BIM Energy Joint Stock Company(BIME). VVB could verify through appointment letter submitted to VVB during the validation process, that BIM Renewable Energy Joint Stock Company and BIM Energy Join Stock Company are the project developer, whereas AC Energy is the appointed account manager for the Gold Standard registry. The Project Activity involves use of methodology “ACM0002: Grid-connected electricity generation from renewable sources” (Version 21.0) /B02/. From the desk review of PDD /01/ and interviews of the PP representatives, it is revealed that this Project does not involve any ODA funding. Thus, the validation team considers no ODA funding has been involved under this Project. Based on assessment above, CCIPL confirms that the description of the proposed GS PA in the PDD/01/ is accurate and complete and it provides an understanding of the PA, and the project is in line with the applied methodology /B02/ and GS4GG requirements /B01//B03/. CC IPL hereby confirms that the selected methodology has been previously approved by the CDM Executive Board, and is applicable to the Project, which complies with all the applicability conditions therein and the selected version is valid at the time of submission of the proposed project activity for renewal of crediting period. It is also confirmed that the methodology is correctly applied by comparing it with the actual text of the applicable version of the methodology and there is no deviation from the selected methodology.
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D.3. Eligibility criteria as per the GS Principles and Requirements

No.	Eligibility criterion – Category/Required condition	Justification	VVB Assessment
1	Types of projects i. A Project type is automatically eligible for Gold Standard Certification if there are	i. The project type is large-scale solar which is an eligible project type as it is in accordance with section 2 of the Eligible Project Types & Scope	As per section 4.1.3 of the GS4GG Principles and Requirements document states following for automatic eligibility for a project A Project type is automatically eligible for Gold Standard Certification if there are Gold Standard approved Activity Requirements and/or Impact Quantification Methodologies

	approved Gold Standard Activity Requirements and/or Gold Standard Impact Quantification Methodologies associated with it or as referenced in Gold Standard Product Requirements. These are published to the Gold Standard website and shall be followed where provided for a given Project type. ii. For Project types that are not automatically eligible, a Project Developer may submit to Gold Standard for approval. This shall be done at minimum as part of the Preliminary Review, though it is recommended to engage with Gold Standard earlier to establish the criteria and requirements for approval. iii. Project types applying for Gold Standard approval are referred to the Gold Standard Vision and Mission. The Project Developer shall demonstrate how the Project would contribute to these and how the Gold Standard for the Global Goals Requirements would be met in	under Renewable Energy Activity Requirements. The project applies methodology ACM0002, which is an approved methodology under Gold Standard. ii. The project is automatically eligible as per “GS Activity Requirements”. iii. Photovoltaic Solar project is an approved project type as per “GS Activity Requirements” and does not require approval from Gold Standard. iv. Photovoltaic Solar project is an approved project type as per “GS Activity Requirements” and does not require approval from Gold Standard. v. This project activity is not associated with geo-engineering or energy generated from fossil fuel or nuclear, fossil fuel switch. Also, the project activity does not support, enhance or prolong such energy generation. vi. a. Not applicable b. The proposed project is located at Viet Nam which is	associated with it or it's referenced in the Gold Standard Product Requirements. The Gold Standard has published Renewable Energy Activity Requirements; therefore, the project activity falls under the list of Pre-identified eligible project and is automatically eligible for Gold standard certification. The project type is Photovoltaic solar project. Therefore, the project is automatically eligible for GS certification.
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	their application for approval. iv. In reviewing a new Project type for approval, Gold Standard may establish new Requirements to be met by the Project in order to achieve Gold Standard Design Certification and ongoing Gold Standard Certified Project status. Where required, Gold Standard shall engage expert peer reviewers to establish these Requirements, at the Project Developer's expense. v. Gold Standard does not support Project types associated with geo-engineering or energy generated from fossil fuel or nuclear, fossil fuel switch, or any project that supports, enhances or prolongs such energy generation. In certain cases, concerning energy efficiency involving fossil fuels (for example, LPG stoves), an exception is made. This is captured in the relevant Activity Requirements, Gold Standard Approved Methodologies and/or Product Requirements.	categorized as Low Middle-Income Country as per the "The World Bank" data. The penetration level of solar energy technology is 0% (i.e. 0 MW) of the total installed capacity (i.e., 42,263 MW) of Viet Nam in 2016. This is less than 5% as per the requirement. vii. The proposed project doesn't use suppressed Demand Baseline. viii. The proposed project will claim only GS-VER for the MWh supplied to the national grid.	
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	vi. New Gold Standard Verified Emission Reductions (GS VER) or Gold Standard labels for Certified Emission Reductions (GS CER), Renewable Energy projects connected to national, or a regional electricity grid must be located in a; a. Least Developed Country (LDC), Small Island Developing State (SIDS) or a Land Locked Developing Country (LLDC). b. Low Income and Low Middle-income country where the penetration level of the proposed Renewable Energy Technology type is less than 5% of the total grid installed capacity, at the time of the first submission to preliminary review. vii. Certain Impact Quantification methodologies allow projects to account for a Suppressed Demand scenario when establishing		
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	a baseline. In such cases, the application of the Suppressed Demand baseline is limited to small scale and microscale projects. viii. A single Renewable Energy project may potentially pursue any number and combination of Certified Impact Statements or Products. However, certain Product Requirements, which supersede the generic requirements stated in this document can set restrictions on co-issuance of Certified Impact statements or Products. For instance, GS VERs or GS CERs with REC labels cannot be claimed for the same MWh		
2.	Location of project	The project activity is located at Viet Nam.	Based on the review of PDD /01/, it is confirmed that the boundary of the proposed project activity lies within the geographical territory of Viet Nam.

			The eligibility criterion for corresponding Project Activity in the proposed PA is defined in accordance with point (b) of section 3.1.1 of GS4GG principles and requirements version 1.2. Hence validation team confirms that in accordance with the GS Requirements /B01/, the project is eligible under Gold Standard.
3.	Project Area, Project Boundary and Scale	Refer to Section A.2 of the PDD for the major corner GPS coordinates of project boundary. As per chosen CDM methodology ACM0002 (version 21.0), The spatial extent of the project boundary includes the project activity and all power plants connected physically to the electricity system that the proposed project is also connected. The detailed on the project boundary is presented in Section B.3 of this PDD. The installed capacity of the project activity is 405 MW_P so it's a large-scale project.	Project boundary geographical area is defined as the territorial boundary of Viet Nam. Project activity falls under large scale project activity. The installed capacity of the project activity is 405 MW in line with the applied methodology. Hence, the project qualifies for large scale projects. The validation team by means of on-site audit interviews and the review of PDD /01/ confirms that project boundary is in line with GPS coordinates and all the power plants connected physically to the electricity system in this project. Hence, the project activity meets the criteria as per the GS requirements.
4	Host Country Requirements	The proposed project activity meets all the legal, environmental, ecological and social regulations through obtaining various approvals & license from authorities such as EPP approval before implementation, Land use, construction & grid connection approvals, Investment related license and so on. Also, the project activity contributes to the national and local level sustainable development as defined under section A.1 of the PDD.	The project's host Party is Viet Nam and eligible as per Gold Standard requirements. Moreover, the project complies with the legal, environmental, ecological and social regulations through obtaining various approvals & license from authorities. This document has been validated during registration of the project. The project activity also contributes to the national and local level sustainable development. Hence, host country criteria in regards compliance with applicable Host Country's legal, environmental, ecological, and social regulations is meet. The proposed project activity is deemed to be eligible under gold standard GS4GG
5	Contact Details	The contact details of the Project Participants are included under Appendix 2 of this GS PDD.	Project Developer contact details has been given in Appendix 2 of the PDD. This has been checked by the validation team deemed to be inline with the requirements /01/.

			Hence, the project activity meets the criteria as per the GS requirements.
6	Legal Ownership	The legal owner of the proposed project is BIM Renewable Energy Joint Stock Company and BIM Energy Joint Stock Company	The validation team through onsite visit and through registered PDD/03/ confirms legal ownership of the GS carbon credit generated from the project is BIM Renewable Energy Joint Stock Company and BIM Energy Joint Stock Company. The eligibility criterion for proposed Project Activity is defined in accordance with point (f) of section 3.1.1 of GS4GG principles and requirements version 1.2/B01/. Hence validation team confirms that in accordance with the GS Requirements /B01/, the project is eligible under Gold Standard based on the above assessment.
7	Other Rights	None	Not Applicable
8	Official Development Assistance (ODA) Declaration	No public funds or ODA is involved in this project activity.	The project does not involve any ODA. This has been also supported with declaration of ODA as per GS requirement/B01/. VVB team confirms through the registered PDD /03/. Hence validation team confirms that in accordance with the GS Requirements /B01/, the project is eligible under Gold Standard and based on the above assessment.

D.4. Eligibility criteria as per PDD guideline

Eligibility Criteria	Justification	VVB Assessment
Confirm that the project is not registered with any other voluntary or compliance schemes.	The proposed project activity is not registered with any other voluntary or compliance schemes.	VVB has crosschecked with the other schemes and this project is not registered under any voluntary or compliance schemes. As per section A.1.1(iv) of the GS4GG project design document template guideline this project meets the eligibility criteria.
Demonstrate the activity is NOT located in a host country, region, locality or state that has an emission reduction cap enforced OR has the possibility to trade emissions that include the scope of the proposed project	The host country of proposed project activity is Viet Nam which is a non-annex country. Hence, no emission reduction cap enforced as well as no emission trading system implemented in the host country.	The project is in the host country Viet Nam, which is a non-annex country. Hence VVB has confirmed that no emission reduction cap enforced as well as no emission trading system implemented in the host country as per section 1.1(v) of the GS4GG project design document template guideline.
Demonstrate that no potential for double counting of impacts if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature.	Since project owner keeps confidential and secured all the project related documents, the same nature of project will be unlikely pursue with any other voluntary or compliance standard programme. Also, project owner will continuously monitor through searching in international registries (such as CDM, VERRA, GCC, GS-VER, etc.) and local registry (such as Green Certificate Company for the Renewable Energy Certificates) for similar scope of project registered from same location.	VVB confirms that there is no potential for double counting of impacts if project area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature by searching the different international registries like CDM, GS, VERRA, GCC. Hence VVB confirms the project is applicable as per section 1.1(vi) of the GS4GG project design document template guideline.
Demonstrate that the project is in compliance with applicable Host Country's legal, environmental, ecological and social regulations	The proposed project activity has obtained all the authorities' approvals to comply with legal, environmental, ecological and social regulations before commencing the implementation.	VVB has confirmed that the project is compliance with the legal, environmental, ecological and social regulations of host country Viet Nam from registered PDD /01/. The same has been validated during registration of the project. Hence As per section A.1.1(vii) of the GS4GG project design document template guideline this project is eligible.

D.5. Application of Methodology and standardized baselines

Means of validation	DR, Interview								
Findings	CL 02 has been raised and successfully resolved. Details of the CAR has been mentioned in appendix 5								
Conclusion	The project applied the approved methodology ACM0002 - Grid-connected electricity generation from renewable sources (version 21.0) /B02/. The applicability conditions of the methodology are discussed below:								
	<table><thead><tr><th>Applicability</th><th>Justification</th><th>VVB Assessment</th></tr></thead><tbody><tr><td> This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s). </td><td> The project activity involved installing a new solar power plant at the site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plants) </td><td> The project 'BIM Solar Farm' is the greenfield solar power plant. There was no renewable power plant operated prior to the implementation of this project activity. The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation in accordance with point 3(a) applicability condition of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/. Hence, the project activity meets the criteria as per the methodology applicability condition. </td></tr></tbody></table>	Applicability	Justification	VVB Assessment	This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s).	The project activity involved installing a new solar power plant at the site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plants)	The project 'BIM Solar Farm' is the greenfield solar power plant. There was no renewable power plant operated prior to the implementation of this project activity. The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation in accordance with point 3(a) applicability condition of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/. Hence, the project activity meets the criteria as per the methodology applicability condition.		
	Applicability	Justification	VVB Assessment						
This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s).	The project activity involved installing a new solar power plant at the site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plants)	The project 'BIM Solar Farm' is the greenfield solar power plant. There was no renewable power plant operated prior to the implementation of this project activity. The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation in accordance with point 3(a) applicability condition of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/. Hence, the project activity meets the criteria as per the methodology applicability condition.							
In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy project activities that: (a) Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a	(a) The proposed project activity is a new installation of solar power plant. (b) It doesn't involve any capacity additions/ retrofits/ rehabilitations/ replacements	The project activity is the greenfield solar power plant. There was no renewable power plant operated prior to the implementation of this project activity. During this certification renewal there is no capacity addition to the existing power plant. The project do not involve BESS installation,							

	capacity addition to (an) existing solar photovoltaic¹ or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s)	of any existing solar power plant. (c) It does not have BESS installed. (d) It does not have BESS installed.	The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation in accordance with point 5(a) applicability condition of methodology ACM0002: Grid connected electricity generation from renewable sources. /B02/. Hence, the project activity meets the criteria as per the methodology applicability condition.
	The methodology is applicable under the following conditions: (a) The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; (b) In the case of capacity	(e) The proposed project activity is a new installation of solar power plant. (f) It doesn't involve any capacity additions/ retrofits/ rehabilitations/ replacements of any existing solar power plant.	The project 'BIM Solar Farm' is the greenfield solar power plant. The project activity does not involve any capacity additions/retrofits/rehabilitation/ replacement of any existing solar power plant. The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation in accordance with applicability condition 4(a), 4(b) of methodology ACM0002: Grid connected electricity generation from renewable sources. / B02/ Hence, the project activity meets the criteria as per the methodology applicability.

	additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity. (a) In the case of Greenfield		
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	project activities applicable under paragraph 5 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents); (b) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies² may the BESS be charged with electricity from the grid or a fossil fuel		
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	electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the		
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	electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period.		
	In case of hydro power plants, one of the following conditions shall apply.	Not applicable. Proposed project activity is a solar power plant.	The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation, not hydro power plant. Hence the applicability condition 5 of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/ is not applicable.
	In the case of integrated hydro power projects, project proponent shall	Not applicable. Proposed project activity is a solar power plant.	The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation, not integrated hydro power project. Hence the applicability condition 6 of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/ is not applicable.
	The methodology is not applicable to: (a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project	Not applicable. The proposed project activity neither involve switching from fossil fuels to renewable energy sources nor biomass fired power plant.	The validation team by means of on-site audit interviews and the review of PDD/01/ confirms that project is greenfield solar power generation and not involve switching from fossil fuel to renewable sources or biomass fired power plant. Hence the non-applicability condition of methodology ACM0002: Grid connected electricity generation from renewable sources./B02/ is applicable.

	activity, since in this case the baseline may be the continued use of fossil fuels at the site;		
	(b) Biomass fired power plants/units.		
	In the case of retrofits, rehabilitation, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	The proposed project activity is a new installation of solar power plant. It doesn't involve any capacity additions/ retrofits/ rehabilitations/ replacements the existing plant.	The validation team by means of on-site audit interviews and the review of PDD confirms that project is greenfield solar power generation. The project activity does not involve any capacity additions/ retrofits/ rehabilitation/ replacement of any existing solar power plant. Hence the applicability condition 8 of methodology ACM0002: Grid connected electricity generation from renewable sources ./B02/ is not applicable.
CC IPL hereby confirms that the selected methodology/B02/ is applicable to the Project, which complies with all the applicability conditions therein and the selected version is valid at the time of submission of the proposed project activity for renewal of crediting period. It is also confirmed that the methodology is correctly applied by comparing it with the actual text of the applicable version of the methodology and there is no deviation from the selected methodology.			

D.6. Validity of Original baseline Scenario or its update

Means of validation	DR,I
Findings	--
Conclusion	As per para 5.1.47 of Gold Standard for global goals principles & requirement 're-definition of Baseline Scenario' is required at design renewal. The project activity involves the installation of greenfield grid connect solar power plant. The baseline scenario of the project is to provide an equal amount of electricity provided by the national grid where the proposed project is also connected. Viet Nam Electricity Corporation (EVN) is the sole operator of the Viet Nam national electricity grid where all the power plants in Viet Nam are physically connected, and this project activity is not outside of that system.

Vietnam revised its Nationally Determined Contributions (NDC) in 2022 in the manner listed below:

Compared to the 2020 NDC, the emission reduction goals for energy, agriculture, LULUCF, waste, and industrial processes by 2030 have been raised. From 27% to 43.5%, the conditional contribution grew, while the unconditional contribution increased from 9% to 15.8%.

VVB could review the new policy/10/ that does not require the execution of renewable energy projects to meet the NDC or net-zero targets established by the Vietnamese government, even as it supports private investment in energy efficiency and renewable energy development. Furthermore, the government has not established any equivalent modifications. The project complies with the present climate policy as a result.

The combined margin emission factor of the national grid ($EF_{grid,CM,y}$) is calculated as per "Tool to calculate the emission factor for an electricity system (Version 07.0)" and used to calculate the baseline emissions of the project activity.

The project developer has included the assessment of the validity of the original baseline as per the tool "Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of a crediting period", Version 3.0.1 /B07-a/.

The tool consists of two steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second step provides an approach to update the baseline in case the current baseline is not valid anymore for the next crediting period.

Step 1: Assess the validity of the current baseline for the next crediting period

The validity of the current baseline is assessed using the following sub-steps:

Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies

According to the registered PDD/01/, in the absence of the project activity, electricity which will be supplied to the national grid would come from fossil fuel power plants. The generation of electricity by burning fossil fuels result in CO₂ emission into the atmosphere. Hence, the baseline scenario of the project is the electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected fossil fuel power plants and by the addition of new generation sources.

There are no new national and/or sectoral policies that could affect the baseline scenario during the renewal of the crediting period. Although national policies favor the development of renewable energy sources, total renewable power generation accounts for less than 50% of total generation of the power grid as of 2019. Hence in the absence of the project activity electricity would still have been generated in the existing fossil fuel power plants or by the addition of new fossil fuel power plants connected to the grid.

Step 1.2: Assess the impact of circumstances.

There is no impact of circumstances existing at the time of requesting renewal of crediting period on the current baseline emissions.

The current practice for the baseline emissions is still the GHG emitted by national grid: the equivalent electricity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources within the national grid.

Therefore, this step is not applicable for this project.

Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested.

The current baseline scenario is the continuation of the current practice. In the absence of the project, the electricity would have been supplied by, and it will not request an investment by the project proponent or third party. Therefore, this step is not applicable for this project.

Step 1.4: Assessment of the validity of the data and parameter.

As per the requirement of the methodology, only the grid emission factor has been updated during the second crediting period renewal. Before the time of requesting renewal of the crediting period, the National Electricity System Regulation Centre has issued the latest emission factor for the national grid, therefore, the emission factor of national grid is updated for the second crediting period.

The difference between previous and current emission factor is as follows:

	Operating Margin (OM)	Build Margin (BM)	Combined Margin (CM)
Existing: 2015-2017 (tCO ₂ e/MWh)	0.8336	0.8961	0.8492
Current: 2019 -2021 (tCO ₂ e/MWh)	0.9334	0.4197	0.8050

Step 2: Update the current baseline and the data and parameters.

Step 2.1: Update the current baseline.

Based on the latest approved version of the methodology ACM0002 (version 21.0) /B02/, baseline emissions for the second crediting period have been updated, without reassessing the baseline scenario. In accordance with current context of the sectoral policies and circumstances, the project baseline for the next crediting period is the use of electricity from the national grid.

Step 2.2: Update the data and parameters.

The grid emission factor is updated according to the Department of Climate Change, Viet Nam.

Finally, it is concluded that the original baseline scenario is valid, and assessment is complete as per "Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1 /09/.

The validation team also noted that project by design change now falls under 'GG4GG Renewable Energy Activity Requirements' /B06/.

CC IPL concludes that the original baseline is valid, and assessment is done as per methodological tool 'Tool for the assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period v3.0.1'/B07-a/. The assessment meets VVS Standard version 01 /B03/ and GS principle and requirements paragraph 5.1.47. /B01/

D.7. Estimated emission reductions or net anthropogenic removals

Means of validation

As per the methodology, the emission reductions are verified and credited by comparing the emissions for a given project scenario to the emissions for the applicable baseline scenario. The overall GHG reductions achieved by the project activity in year y are calculated as follows:

The equation shown below is the one that corresponds to Method 1 chosen:

$$BE_y = EG_{Pj,y} \times EF_{grid,CM,y} \quad (11)$$

	$ER_y = BE_y - PE_y$ (17)		
	Where:		
	BE = Baseline emission		
	EG = Power generation		
	EF = Grid emission factor		
	ER = Emission reduction		
	PE = Project emission		
	Data and Parameters fixed ex-ante		
	Data and Parameter	Value	Assessment
	$EF_{grid,OM,y}$	0.9334	The data has been obtained from Department of Climate Change, Viet Nam.
	$EF_{grid,BM,y}$	0.4197	The data has been obtained from Department of Climate Change, Viet Nam.
	$EF_{grid,CM,y}$	0.8050	The data has been calculated combined margin emissions factor is calculated as per Tool 7, paragraph 86 a.
Findings	--		
Conclusion	CC IPL confirms that the PDD correctly lists assumption and data used by the PD for estimating emission reduction including their references and sources. Source of data and assumptions are correctly quoted and interpreted in the PDD. All values used in the PDD are considered reasonable in the context of the proposed GS project activity. The baseline methodology and corresponding tools have been correctly applied to calculate project, baseline and leakage emissions, and emission reductions. All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PDD/01/.		

D.8. Validity of monitoring plan

	Means of validation		
	The monitoring plan in the updated PDD is consistent with the latest methodology, ACM0002 v 21./B02/ Validation team confirmed from the document review that the list of parameters including the means of monitoring is described in accordance with the applied methodology.		
	Monitoring plan is described in section B.7.2 of the PDD. Following parameters will be monitored for this project activity:		
	The monitoring plan is consistent with the latest methodology and hence valid for the next crediting period. CC IPL is of the opinion that monitoring plan is feasible within the project design.		
	Data and Parameters to be monitored:		
	Data and Parameter	Value	Assessment

	ERy - Annual emission reduction	540,295 tCO ₂ e/year	The project will generate renewable energy, which will displace part of the electricity otherwise supplied by fossil fuel fired power plants, thereby the emission reductions are achieved by this project. The monitoring frequency for this parameter is once for each monitoring period. The value 540,295 tCO₂e/year has calculated by net electricity generated by the project activity and combined margin emission factor of electricity system. VVB has verified the calculation by means of desk review /02/ and it's deemed appropriate with the methodology ACM0002 (Version 21.0) /B02/
	Employees' monthly wages	-	This shall be monitored once every monitoring period. Through employment wages records.
	EG _{facility,y}	671,195 MWh/yr	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y. The monitoring frequency for this parameter is continuous measurement and monthly recording. For this crediting period the estimated value of electricity generation is 671,195 MWh/yr. The generated electricity will be monitored by the electricity meters on a continuous basis and readings will be taken every month for billing purpose. The meters will store the data and will transfer to server of HV substation control room. Electricity meters will be calibrated once in three years as per EVN requirement. VVB has crosschecked the same by means of the document review (downloaded electricity meter reading, invoice bill) and on-site inspection and it's deemed acceptable.
The monitoring plan presented in the PDD /01/ comply with the requirements of the applied monitoring methodology /B02/. Validation team of CC IPL has verified all parameters in the monitoring plan against the requirements of the applied methodology.			

	The procedures were reviewed by the validation team through a document review /01/ and interviews with relevant stakeholders. The data provided enabled the validation team to confirm that the proposed monitoring plan is feasible within of the project design. The relevant points of monitoring plan have been discussed with the PP. During the desk review /01/ and onsite inspection VVB has confirmed that all the meters and the calibration of the meters will be done in every three years and calibration report will be available during verification. The plant will do an internal audit every year to ensure the parameters are being monitored as per PDD. The staffs of the plant will be trained during this crediting period.
Findings	N/A
Conclusion	CC IPL confirms that the monitoring plan included in the updated PDD is valid as per the applied methodology /B02/ and conforms the registered PDD/03/.

D.9. Validity of the sustainability monitoring plan

Means of validation	Apart from monitoring relevant parameter under SDG 13, parameters pertaining to SDG 7 and SDG 8 are consistent with registered PDD /A. 1/. The monitoring plan of those parameters are discussed below:		
	SDG Indicator	Parameter	Validation
	SDG 7- Affordable and Clean Energy (Indicator 7.2.1: Renewable energy share in the total final energy consumption)	$EG_{\text{facility},y}$	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y. The monitoring frequency for this parameter is continuous measurement and monthly recording. For this crediting period the estimated value of electricity generation is 671,195 MWh/yr. The generated electricity will be monitored by the electricity meters on a continuous basis and readings will be taken every month for billing purpose. The meters will store the data and will transfer to server of HV substation control room. Electricity meters will be calibrated once in three years as per EVN requirement. VVB has crosschecked the same by means of the document review (downloaded electricity meter reading, invoice bill) and on-site inspection and it's deemed acceptable.
	SDG 8- Decent Work and Economic Growth (Indicator 8.5.1 – Average hourly earnings of female and male employees, by occupation, age	Employees' monthly wages	The project implementation and maintenance required manpower. The project generated employment which shall be monitored annually to ascertain the number of jobs the project created and income generation. The actual records from project developers shall be maintained.

	and persons with disabilities)		The indicator is rightly chosen for the project activity and monitoring is in line with applied methodology and chosen indicator.
Findings	--		
Conclusion	CCIPL confirms that the sustainable development monitoring plan included in the updated PDD is consistent with GS principles and requirements and feasible within the project design.		

D.10. Crediting period

Means of validation	DR,I
Findings	
Conclusion	The start date for the Project Activity is 20/07/2018 as stated in the PDD /01/ is the date of EPC agreement signed. The EPC was signed for 18E & 18S on 08/08/2018 and for 18N on 20/07/2018/07/. Hence, the earliest date has been chosen for project start date. The definition of the project start date is in compliance with section 4.1.39 of the GS4GG Principles & Requirements version 1.2 /B01/ and § 7.6 of GS validation and verification standard version 1.0/ B03/ As per para 5.1.45 of GS4GG principles and requirement /B01/, to maintain Gold Standard Certified Project status beyond five years, a Project must undergo Design Certification Renewal. The VVB has reviewed the registered PDD for the first crediting period of the project activity, based on review of the project documents and with reference to section 5.1.45 of Gold Standard for the Global Goals Principles & Requirements version 1.2 /B01/ which states that “<i>review of the Design Certification Renewal may complete after the last date of current crediting period. In this case, the renewal date shall be the first day after the end date of the current certification cycle</i>”, the project is eligible for second crediting period and the period is clearly defined. Furthermore, the first crediting period starts from 01/06/2019 to 31/05/2024 and 2nd crediting period of renewal is from 01/06/2024 to 31/05/2029 with renewal period of 5 years . As per the GS requirement section 5.1.45 of Gold Standard for the Global Goals Principles & Requirements version 1.2 /B01/. The validation team confirms that the crediting period applied is in accordance with the GS4GG Principles and Requirements, version 1.2 /B01/ and GS Validation and Verification standard version 1.0 /B03/.

D.11. Project participants

Means of validation	The project developer is BIM Renewable Energy Joint Stock Company (BIMRE) – Viet Nam and BIM Energy Joint stock Company (BIME) – Viet Nam. This is as per GS registry details of the project. The same is found mentioned in the updated PDD. PD has provided.
Findings	CL 03 has been raised and successfully resolved. Details of the CAR has been mentioned in appendix 5
Conclusion	CCIPL confirms that the project participants of the project activity are listed in the updated PDD, and this information is consistent with the information provided in the section that contains the contact information for project participants.

D.12. Specific GS scope on design certification renewal

Means of validation	As per paragraph 5.1.47 of GS4GG principle and requirement, the ‘Design Certification Renewal scope is assessed as below: a) Changes in the Project as related to the General Eligibility Criteria
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	-There is no change in the project which may impact the project eligibility. The project still falls under large-scale category and implemented within the same geographical boundary as the registered PDD/A. 1/. b) Incorporation of any relevant updates to the Gold Standard Requirements - There is no relevant update found to be incorporated for the project during the second crediting period. c) Re-definition of baseline scenario and any impact of change on the eligibility principles, criteria and requirements - PP has assessed the baseline following UNFCCC guideline and the GS Principle and requirements /B01/ and confirms the existing baseline is still valid. d) Any gold standard activity, product and methodology-specific requirement - The project meets GS renewal energy activity requirements although there is no specific requirement to be met during the renewal of the project. The applied methodology for claiming emission reductions is updated to its latest version and conditions as per latest version is justified in the updated PDD. e) Demonstration of ongoing financial need, where relevant-see ongoing financial need -No change in design of the plant, the project would become more financially feasible for the PP to invest but will still be less than the nominal benchmark. However, under section B.5.2 of the PDD/ 01/ PP has detailed the financial needs as per the GS4GG principles & requirements This has been checked by VVB during the desk review and on-site visit interviews.
Findings	N/A
Conclusion	CC IPL confirms that the project activity is within the required scope of GS principle and requirements which are applicable at design renewal.

D.13. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ¹	Not applicable	--	--
Corrections	Not applicable	--	--
Change to the start date of the crediting period	Not applicable	--	--
Inclusion of a monitoring plan	Not applicable	--	--
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	Not applicable	--	--
Changes to the project design	Not applicable	--	--
Changes specific to afforestation and reforestation project activities	Not applicable	--	--

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

D.14. Grievance Mechanism

Means of validation	As per para 4.1.34 of GS4GG principles and requirement /B01/, The Project shall have a formal input, feedback and grievance mechanism in place and the grievance mechanism has been discussed during the Stakeholder Consultations as per Stakeholder Consultation & Engagement Requirements. ☐ Review of Grievance Records: • VVB Ensure that all grievances are documented comprehensively. And the validation team could check for timely responses and resolutions process through interviews with the stakeholders.. ☐ Stakeholder Feedback: • Interview stakeholders to understand their experience with the grievance mechanism. Through interview with the stakeholder feel their grievances are addressed fairly and promptly. ☐ Compliance with Standards: • Verify alignment with relevant standards and guidelines, such as Section 10 of the Validation and Verification Standard V1.0. and also could verify the mechanism meets legal and regulatory requirements. ☐ Monitoring and Reporting: • VVB Ensure there is a process for monitoring the effectiveness of the grievance mechanism in line with the standard requirements. Based on review of the project documents and with reference to section 4.1.34 of Gold Standard for the Global Goals Principles & Requirements version 1.2 /B01/, the project consists of a continuous input/ grievance mechanism by receiving grievances in the project site.
Findings	-
Conclusion	CC IPL confirms that the project has grievance expression book located at the site office and there is no grievance has been updated till date.

SECTION E. Internal quality control

>> The final validation report before being submitted to the client is subjected to an independent technical review to confirm that all validation activities have been completed according to the pertinent CCIPL's procedures. The technical review is performed by a technical reviewer(s) qualified in accordance with the CCIPL's qualification procedure.

SECTION F. Validation opinion

>> Carbon Check (India) Private Ltd. (CC IPL) is performing the validation of design certification renewal of the second crediting period of the GS project titled "BIM Solar Farm' in Viet Nam" (GS project Id: GS 7525). The proposed large-scale project activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the updated PDD. In the opinion of the validation team, the project meets all relevant GS4GG criteria and all relevant host country criteria

The validation was performed in accordance with latest GS4GG rule and requirements /B01/ and UNFCCC criteria for the Clean Development Mechanism, latest version of GS Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The review of the updated PDD and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline. The PDD correctly

applies the latest version of the large-scale methodology ACM0002 - "Grid-connected electricity generation from renewable sources" version 21 and meets all relevant criteria therein. The monitoring arrangements described in the monitoring plan are feasible within the project, and it is validation team's opinion that the project implementer is able to implement the monitoring plan and it is deemed likely that the forecasted emission reductions of 540,295 tCO₂e per year from the project during the second crediting period will be achieved, given that the underlying assumptions do not change.

During the course of validation 01 CARs, 03 CL were identified on initially submitted revised PDD, . All raised CARs and CL have been resolved by project proponent. Later during the Design review 01 FAR has been raised by GS, that can be resolved during the verification process.

In summary, it is validation team's opinion that the project "BIM Solar Farm." (GS Reference number 7525) meets all relevant GS4GG and UNFCCC requirements for the renewal of the crediting period. Hence CCIPL requests the renewal of the project activity for the second crediting period from 01/06/2024 to 31/05/2029. Design change assessment

Appendix 1. Design change assessment

No design changes identified.

Appendix 2. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Pvt. Ltd.
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DR	Desk Review
EB	Executive Board
EPC	Engineering Procurement, and Construction
ER	Emission Reductions
ER	External Resources
FAR	Forward Action Request
GS4GG	Gold Standard for Global Goals
I	Interview
LDC	Least Developed Country
LSC	Local Stakeholder Consultation
MP	Monitoring Plan
MR	Monitoring Report
ODA	Official Development Assistance
PA	Project Activity
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
SDG	Sustainable Development Goals
UNFCCC	United Nations Framework Convention on Climate Change
VER	Voluntary Emission Reduction
VVB	Validation and Verification Body
VVS	Validation and Verification standard

Appendix 3. Competence of team members and technical reviewers



Carbon Check (India) Private Limited

Certificate of Competency

Ms. Pallavi Gedam

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC 14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

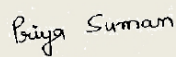
for the following functions and requirements:

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

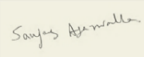
in the following Technical Areas:

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

Issue Date	Expiry Date
5 th December 2023	31 st December 2024



Ms. Priya Suman
Compliance Officer



Mr. Sanjay Kumar Agarwalla
Technical Director

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

CC IPL_FM 7.9 Certificate of Competency_V4.0_112023

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



Carbon Check (India) Private Limited

Certificate of Competency

Ms. 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/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 | ☐ Health Expert | ☐ Gender Expert | ☐ Plastic Waste Expert |
| ☐ CCB Expert | ☐ Legal Expert | ☐ Financial Expert | ☐ Environmental, Health and Safety financial matters |
| ☐ SDG+ | ☐ Social no-harm(S+) | ☐ Environment no-harm(E+) | |
| ☒ Local Expert for 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 | ☐ TA 16.1 | | |

Issue Date

5th December 2023

Priya Suman

Ms. Priya Suman
Compliance Officer

Expiry Date

31st December 2024

Sanjay Agarwalla

Mr. Sanjay Kumar Agarwalla
Technical Director

Revision History of the document:

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

CC IPL_FM 7.9 Certificate of Competency_V4.0_112023

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



Carbon Check (India) Private Limited

Certificate of Competency

Mr. S Ranganathan

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), 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 | ☐ Health Expert | ☐ Gender Expert | ☐ Plastic Waste Expert |
| ☐ CCB Expert | ☐ Legal Expert | ☐ Financial Expert | ☐ Environmental, Health and Safety financial matters |
| ☒ SDG+ | ☒ Social no-harm(S+) | ☒ Environment no-harm(E+) | |
| ☒ Local Expert for India | | | |

in the following Technical Areas:

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

Issue Date

5th December 2023

Expiry Date

31st December 2024

Priya Suman

Ms. Priya Suman
Compliance Officer

Sanjay Agarwalla

Mr. Sanjay Kumar Agarwalla
Technical Director

Revision History of the document:

Revision date	Summary of changes
2022	Initial Adoption
Jan 2023	Annual revision
Dec 2023	Change in the template due to revision in TA and function

CCIPL_FM 7.9 Certificate of Competency_V4.0_112023

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

Appendix 4. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	PP	- Updated GS PDD for the project 'BIM Solar Farm' - Updated GS PDD for the project 'BIM Solar Farm' - Updated GS PDD for the project 'BIM Solar Farm' - Final GS PDD for the project 'BIM Solar Farm'	Version 8, dated 21/02/2024 Version 9, dated 15/05/2024 Version 10, dated 05/08/2024 Version 11, dated 12/09/2024	PP
02/	PP	Emission reduction worksheet for the project activity "BIM Renewable Energy Joint Stock Company"(BIMRE) and "BIM Energy Joint Stock Company"(BIME)	'ER_BIM_2024.01.1 7 'ER_BIM_2024.03.2 6'	PP
/03/	PP	Registered PDD for the project activity "BIM Solar Farm.'	Version 01 – 10/08/2019 Version 02 – 10/11/2019	PP
/04/	Bureau Veritas	Validation report for the project "BIM Solar Farm'	Version 01.1 dated 24/12/2019	PP
/05/	PP	Grievance Book	-	PP
/06/	PP	Grid connection agreement - The Southern Electricity Company and the Company with BIM Energy Distribution dated 20/06/2018 - National Power Transmission Corporation and the Company has BIM Renewable Energy department dated 11/04/2017		PP
/07/	PP	EPC Contract - For 18E dated 08/08/2018 - For 18N, NX dated 19/03/2020 - For 18S dated 24/11/2015		PP
/08/	PP	Operation and Maintenance Agreement dated 15/02/2023		PP
/09/	Deloitte	Financial Statement for 2019,2020,2021,2022	-	PP
/10/	PP	PPA BIM Solar Power Plant, Company with Beam Energy Distribution and Viet Nam Electricity group dated 02/11/2018		PP
/11/	PP	Loan Agreement		PP
/12/	PP	Investment Decision Policy For 18E Dated 26/11/2014		PP

		- For 18N, NX dated 02/06/2018 - For 18S dated 31/05/2028		
/13/	PP	Employment Record		PP
/14/	UNFCCC	Nationally Determined Contribution (NDC) (Updated In 2022)	-	Publicly available
/B01/	Gold Standard	Gold Standard for the Global Goals Principles & Requirements	Version 1.2 of October 2019	Publicly available
/B02/	UNFCCC	Large-scale methodology "Grid-connected electricity generation from renewable sources (Version 21.0)"	Version 21.0	Publicly available
/B03/	Gold Standard	GS4GG Validation and Verification Standard	Version 1.0	Publicly available
/B04/	Gold Standard	Safeguarding-Principles-Requirements	Version 1.2	Publicly available
/B05/	Gold Standard	Site-Visit-and-Remote-Audit-Requirements	Version 2.0	Publicly available
/B06/	Gold Standard	Renewable-Energy-Activity-Requirements	Version 1.4	Publicly available
/B07/	UNFCCC	a. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (version 3.0.1) b. Tool07 – Tool to calculate the emission factor for an electricity system (version 07.0)		Publicly available

Appendix 5. Clarification requests, corrective action requests and forward action requests

Table 1. CARs from this validation

CAR ID	CAR01	D.1		Date: 27/03/2024
Description of CL				
PP to confirm on the project capacity also provide the PPA for the capacity mentioned in the PDD.				
Project participant response				Date: 03/04/2024
Project capacity has been revised accordingly in the PDD.				
Documentation provided by project participant				
VVB assessment				Date: 27/04/2024
PP has submitted the PPA, project capacity of plant is now consistent in the PDD. This has been checked by the validation team and deemed appropriate. Hence CAR 01 is closed.				

Table 2. CLs from this validation

CL ID	CL 01	Section no.	<u>D.2</u>	Date: 27/03/2024
Description of CL				
As per the § 4.1.52 on ongoing financial needs of GOLD STANDARD FOR THE GLOBAL GOALS PRINCIPLES & REQUIREMENTS Version 1.2, PP to provide the documents defining the on-going financial needs.				
Project participant response				Date: 03/04/2024
The carbon revenue supports partially on the ongoing Operation and Maintenance (O&M) cost. BIM financial audit report can be provided to show the ongoing O&M costs (2022: Notes Point 20, 21 & 24); 2021: Notes point 23,24 & 27).				
Documentation provided by project participant				
Audited Financial Statements 2021 & 2022				
VVB assessment				Date: 27/04/2024
PP has submitted the Audited Financial statements of 2021 and 2022, this has been checked by the validation team and deemed to be appropriate. Hence CL 01 is closed.				

CL ID	CL 02	Section no.	D.5	Date: 27/03/2024
Description of CL				
PP to mention the correct reference for the standard and tool used for this project.				
Project participant response				Date: 03/04/2024
PDD has been revised to reference to the latest version of the standard and tool for this project.				
Documentation provided by project participant				
VVB assessment				Date: 27/04/2024
PP has revised the PDD with latest reference for the standard and tools as per the GS principle and requirements, this has been checked by validation team and deemed to be appropriate. Hence CL 02 is closed.				

CL ID	CL 03	Section no.	D.11	Date: 27/03/2024
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Description of CL	
PP has mentioned “O&M cost is based on Operation and Maintenance Agreement with PowerChina Vietnam Limited.” During the site visit it is understood that Powerchina is no more doing O&M for this solar plant. PP to clarify the same.	
Project participant response	Date: 03/04/2024
Branch of Power Engineering Consulting Joint Stock Company 2 – Power Plant Operation and Management Center (PECC2POM) is the new operator for the O&M services for BIM Solar made on 15/02/2023.	
Documentation provided by project participant	
Operation and Maintenance Agreement	
VVB assessment	Date: 27/03/2024
PP has provided the “BIMR-PECC2POM - Operation and Maintenance Agreement”. This agreement confirms that “Branch of Power Engineering Consulting Joint Stock Company 2 – Power Plant Operation and Management Centre (PECC2POM)” is the new operator for O&M services for BIM Solar from 15/02/2023. This has been checked by validation team and thus the justification provide by the PP is deemed acceptable to VVB. Hence CL 03 is closed.	

Table 3. FAR from this validation

FAR ID	FAR 01	Section no.	Date: 05/08/2024
Description of CL			
During the Design Review one FAR has been raised by GS is listed below;			
During future verification, VVB is requested to re assess project's additionality in case electricity generation/tariff is higher than estimation. It's noticed from sensitivity analysis that benchmark will be reached with electricity generation or tariff increase by 4.8%.			
Project participant response			Date:

Documentation provided by project participant			

VVB assessment			Date:
To be checked during the verification			
