




**Verification and certification report form for
Gold Standard project activities
(Version 04.0)**

BASIC INFORMATION

Title and Gold Standard reference number of the project activity	BMT Solar Farm GS7526
Scale of the project activity	<input checked="" type="checkbox"/> Large-scale <input type="checkbox"/> Small-scale
Version number of the verification and certification report	04
Completion date of the verification and certification report	19/07/2023
Monitoring period number and duration of this monitoring period	02, 01/05/2021 – 28/02/2023
Version number of the monitoring report to which this report applies	03
Crediting period of the project activity corresponding to this monitoring period	1 st Crediting Period (02/05/2019 – 01/05/2024)
Project participants	BMT Renewable Energy Stock Company
Host Party	Viet Nam
Applied methodologies and standardized baselines	ACM0002: Grid-connected electricity generation from renewable sources (Version 19.0)
Mandatory sectoral scopes	01, TA (1.2)
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	SDG 7 – 79,244 MWh SDG 8 – 18 Jobs 1 Training per annum SDG 13 -67,294 tCO ₂
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	SDG 7 – 69,490 MWh SDG 8 – 32 Jobs 35 Trainings SDG 13 - 59,011 tCO ₂
Name and UNFCCC reference number of the VVB	Carbon Check (India) Private Limited, E-0052.
Name, position and signature of the approver of the verification and certification report	 Vikash Kumar Singh, Compliance Officer

SECTION A. Executive summary

The purpose of the project activity is to generate electricity and supply to the national grid of Vietnam (EVN). The project activity is located at EA Phe Commune and Krong Puk Commune, Krong Pak District, Dak Lak Province, Vietnam and is of 30 MW capacity. This solar power plant produces can 43,224 MWh per annum as per the registered PDD /02/. The aim of the project activity is 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).

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	IR	Choudhary	Aparna	CC IPL	X	X	X	X
2.	Technical Expert	IR	Rajput	Jaya	CC IPL	X	X	X	X
3.	Local Expert	IR	Nguyen Hong Ngoc	Trang	CC IPL	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	Chakraborty	Shivaji	CC IPL
2.	Approver	IR	Singh	Vikash Kumar	CC IPL

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	<i>Human Error: Recording and reporting of the information in the ER spreadsheet.</i>	<i>Medium</i>	<i>All the input data in the ER spreadsheet including the sales database, determination of parameters for efficiency testing including data calculation. This includes all the parameters to be monitored ex-post as per the.</i>	<i>The risk was mitigated by training the personnel involved in the data capture, and calculation and by following the monitoring responsibilities. The training records were reviewed. The verification team, based on the above, confirms that the risk is appropriately mitigated.</i>
2.	<i>Information System: Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability,</i>	<i>Medium</i>	<i>The data is recorded in spreadsheets based on the raw data collected during the field visits. The access to the spreadsheets for</i>	<i>The identified risk was mitigated by managing access to the records. It was confirmed by the PP that the raw data is collected by the field personnel</i>

	<i>security</i>		<i>calculation of ERs, monitoring and sales database, and Stove efficiency testing records is controlled.</i>	<i>and then transmitted and stored electronically to the PP's office. The organogram of the organization for the data collection and record-keeping was reviewed and found satisfactory. The data quality control is maintained by the PP.</i>
3.	<i>Accuracy of the measuring equipment</i>	<i>Low</i>	<i>Check the calibration records for the measurement equipment used for the efficiency test.</i>	<i>The risk due to the accuracy of the measuring equipment was ensured by planning to check the calibration certificates of the measuring equipment used for stove efficiency.</i>
4.	<i>Competence of personnel involved in conducting standardized tests.</i>	<i>Low</i>	<i>Interview of the personnel involved and check the training records/accreditation certificates (applicable in case of institutions) involved in conducting such tests.</i>	<i>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 were also confirmed during the verification.</i>

Based on the above information, a risk analysis is carried out in the following activities:

1. Monitoring system including the data input procedure (including relevant personnel and applicable template forms used).
2. ER sheet (application of data)
3. Data flow
4. Data control procedures

The risks identified can be mitigated through cross check with all sets of documents. The verification team performed the following checks to mitigate the effects of the above-identified sources of error:

Accuracy of the measuring equipment: The risk due to inaccuracy in measurements was mitigated by reviewing the calibration certificates of all the project equipment.

Based on the assessment carried out, CCIPL confirms with a reasonable level of assurance that the claimed emission reductions are free from material errors, omissions, or misstatements.

C.2. Consideration of materiality in conducting the verification

The Project is a large-scale GS4GG project activity achieving total emission reductions of 36,706 tCO_{2e}/year. As per CDM validation and verification standard v03.0 /08/, large-scale projects achieve total emission reductions of 300,000 tonnes of carbon dioxide equivalent per year or less; as such, a 2 per cent materiality threshold is applied /08/. Accordingly, the materiality threshold is 734.12 tons of CO_{2e}. The materiality thresholds have been calculated in accordance with § 326 (c) of CDM VVS for project activities, version 03.0 /08/.

In line with Guidelines for Application of materiality in verifications v02.0 /15/, a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records (measurement records, invoices and calibration certificates) was done by the verification team and compared with the values indicated in the emission reduction spreadsheet.

Some mistakes were identified and subsequently, findings were raised. These findings are detailed in this report, and they were successfully closed. Therefore, related identified mistakes as listed in the findings in

this report have been determined to be immaterial. Thus, it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

SECTION D. Means of verification

D.1. Desk/document review

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

D.2. On-site inspection

The onsite visit was performed by the verification team of CCIPL on 16/05/2023 and the following activities were performed.

1. An assessment of the implementation and operation of the project activity as per the registered GS PDD **/02/**.
2. A review of information flows for generating, aggregating and reporting the monitoring parameters.
3. Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the GS PDD **/02/**.
4. A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources.
5. A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the GS PDD **/02/** and the selected methodology **/04/** and corresponding tool(s), where applicable.
6. A review of calculations and assumptions made in determining the GHG data and emission reductions.
7. An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.
8. Verification of the monitoring of sustainable development indicators.

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Hua Minh	Duc	BMT	16/05/2023	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 Grievances and training.	Aparna Choudhary, Jaya Rajput & Nguyen Hong Ngoc
2	Nguyen Tu	Duc	BMT	16/05/2023		
3	Tran Minh	Sang	BMT	16/05/2023		
4	Nguyen Cong	Huy	ERS O&M Company	16/05/2023	Operation & Maintenance of plant	
5	Giang Thai	Hoa	ERS O&M Company	16/05/2023		
6	Vo Thanh	Vu	ERS O&M Company	16/05/2023		
7	Pham Hoang	Hiep	ERS O&M Company	16/05/2023		
8	Thirumalavan	Panchaksharam	C&W services	16/05/2023	<ul style="list-style-type: none"> • MR & ER documentation • Verification of monitoring parameters • Verification of SDG parameters • Review of data flow 	
9	Luu Trung	Thanh	Security company	16/05/2023	Employment under SDG 08	
10	Tran Van	Ayun	LSC	16/05/2023	Grievance Mechanism	
11	Hlat	Ayun	LSC	16/05/2023		
12	Y Tanh	Ayan	LSC	16/05/2023		

Through the above-mentioned activities the verification team confirmed the following Gold Standard project aspects in relation to the project activity:

- The implementation and operation of the project activity is as described in the monitoring plan in the GS registered PDD /02/
- The operational and data collection procedures are implemented as per the monitoring plan in the GS registered PDD /02/
- The information flow for generating, grouping and reporting of the monitored parameters.
- Procedures to avoid double counting are in place.

D.4. Sampling approach

This is a greenfield project activity. Thus, sampling is not required.

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

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form		CAR03	
Compliance of the project implementation and operation with the registered PDD	CL01		
Post-registration changes			
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines		CAR01, CAR02	
Compliance of monitoring activities with the registered monitoring plan			
Compliance with the calibration frequency requirements for measuring instruments			
Assessment of data and calculation of emission reductions or net removals			
Assessment of reported sustainable development co-benefits			
Global stakeholder consultation			
Others (please specify)			
Total	1	3	-

SECTION E. Verification findings

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

Means of verification	Document Review, Interview
Findings	-
Conclusion	PP has used the GS4GG template Monitoring Report, version 1.1 /05-2/. The verification team confirms that the latest available version of the monitoring report template has been used by the PP and the MR is in compliance with the monitoring report form and related template guide Monitoring Report, version 1.1./05-2/

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

Not applicable

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

Means of verification	Desk Review and on site assessment
Findings	
Conclusion	CC IPL by means of on-site interviews and document provided by the PP confirms that all physical features (technology, project equipment, and monitoring equipment) of the respective project activity are in place and that the coordinating/managing entity has operated the project activity as per the GS registered PDD /02/. The verification team confirms the actual operation of the Project Activity implementation and operation in compliance with the GS registered PDD /02/ in order to confirm the compliance of GS4GG requirements. /05-1/

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

No deviation has been implemented. Thus, this section is 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).

E.4.2. Corrections
Not Applicable

E.4.3. Changes to the start date of the crediting period
Not Applicable

E.4.4. Inclusion of a monitoring plan
Not Applicable

E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents
Not Applicable

E.4.6. Changes to the project design
Not Applicable

E.4.7. Changes specific to afforestation and reforestation project activities
Not Applicable

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

Means of verification	During this monitoring period, the validated and registered monitoring plan was found to be in accordance with the applied methodology/04/.
Findings	N/A
Conclusion	All monitoring parameters, monitoring procedures follow the methodology requirements and registered monitoring plan.

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

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The following ex-ante parameters are considered in the calculation of the emission reductions:				
		Data/Parameter	Unit	Value Applied	Assessment
	1.	EF _{grid,OM,y}	tCO ₂ /MWh	0.8336	Operating margin is calculated as per the 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.
	2.	EF _{grid,BM,y}	tCO ₂ /MWh	0.8961	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.
	3.	EF _{grid,CM,y}	tCO ₂ /MWh	0.8492	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.
Findings	-			
Conclusion	CCIPL is able to confirm that the Data and parameters fixed ex ante have been implemented in full compliance with the registered monitoring plan in the GS registered PDD /02/.			

E.6.2. Data and parameters monitored

Means of verification	Desk review, onsite inspection			
Findings	CAR 01 was raised and has been closed successfully			
Conclusion	Data/Parameter	Unit	Value Applied	Assessment
	EF _{PJ,grid,y}	MWh/year	69,885	The audit team has checked the monthly generation reports /10/ from the respective solar power plant of concerned the monitoring period (01/05/2021 to 28/02/2023). These monthly generation records have been cross checked with the invoices raised by PP to the grid authority /11/. 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 /10/, /11/ and on-site visit assessment, the VVB confirms that the quantity of electricity generated and supplied by the project power plant to the grid in the year y has no discrepancies.
	EF _{PJ,j,y}	MWh/year	395	The audit team has checked the monthly consumption reports /10/ from the respective solar power plant concerned during the monitoring period (01/05/2021 – 28/02/2023). These monthly consumption records have been cross-checked with the invoices raised by PP to the grid authority /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 the quantity of electricity consumed by the PP in year y has no discrepancies.							
	SDG 8.5.1 Employees Monthly Wage	Vietnam Dong per employee	-	The VVB team has assessed pay slips /16/ 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.							
	SDG 8.8.1 Number of Fatal & Non-fatal injuries	Number	0	No fatal injuries were reported during the current MP as per the on-site inspection by the verification team.							
	SDG 13.3.2 Number of awareness programs	Number	<table border="1"> <thead> <tr> <th>Year</th> <th>No. of trainings</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>14</td> </tr> <tr> <td>2022</td> <td>19</td> </tr> <tr> <td>2023</td> <td>2</td> </tr> </tbody> </table>	Year	No. of trainings	2021	14	2022	19	2023	2
Year	No. of trainings										
2021	14										
2022	19										
2023	2										

E.6.3. Implementation of sampling plan

Means of verification	Not applicable, as the concerned project activity is a greenfield project activity.
Findings	
Conclusion	

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

Means of verification	Desk Review, On site assessment																			
Findings	CAR 01 was raised and has been closed successfully																			
Conclusion	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Plant name</th> <th>Meter Serial No./ Make</th> <th>Accuracy</th> <th colspan="2">Calibration Date</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BMT Solar Farm</td> <td>132 (Main) Elster</td> <td>0.2s</td> <td>Year</td> <td>Calibration date</td> </tr> <tr> <td>132 (Backup) Elster</td> <td>0.5s</td> <td>2021</td> <td>04/08/2021</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2022</td> <td>28/06/2022</td> </tr> </tbody> </table> <p>As per section B.7.1 of registered PDD, calibration frequency is 3 years. CCIPL 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/.</p>	Plant name	Meter Serial No./ Make	Accuracy	Calibration Date		BMT Solar Farm	132 (Main) Elster	0.2s	Year	Calibration date	132 (Backup) Elster	0.5s	2021	04/08/2021				2022	28/06/2022
Plant name	Meter Serial No./ Make	Accuracy	Calibration Date																	
BMT Solar Farm	132 (Main) Elster	0.2s	Year	Calibration date																
	132 (Backup) Elster	0.5s	2021	04/08/2021																
			2022	28/06/2022																

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

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

Means of verification	<p>Baseline emissions are estimated as per equation 11 of ACM0002 version 19 /04/ as follows: $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$</p> <p>$BE_y$ = Baseline emissions in year y (tCO₂/yr) $EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr) $EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid-connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)</p> <p>Therefore, the baseline emissions for the monitoring period are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #00a0a0; color: white;"> <th rowspan="2">Parameter</th> <th rowspan="2">Unit</th> <th colspan="3">Period</th> </tr> <tr style="background-color: #00a0a0; color: white;"> <th>May – December 2021</th> <th>January – December 2022</th> <th>January – February 2023</th> </tr> </thead> <tbody> <tr> <td>$EG_{PJ,y}$</td> <td>MWh</td> <td>24,461</td> <td>39,829</td> <td>5,200</td> </tr> <tr> <td>$EF_{grid,CM,y}$</td> <td>tCO₂/MWh</td> <td colspan="3" style="text-align: center;">0.8492</td> </tr> <tr> <td>BE_y</td> <td>tCO₂</td> <td>20,772</td> <td>33,823</td> <td>4,416</td> </tr> <tr> <td>Total</td> <td>59,011 tCO₂</td> <td colspan="3"></td> </tr> </tbody> </table>	Parameter	Unit	Period			May – December 2021	January – December 2022	January – February 2023	$EG_{PJ,y}$	MWh	24,461	39,829	5,200	$EF_{grid,CM,y}$	tCO ₂ /MWh	0.8492			BE_y	tCO ₂	20,772	33,823	4,416	Total	59,011 tCO₂			
Parameter	Unit			Period																									
		May – December 2021	January – December 2022	January – February 2023																									
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BE_y	tCO ₂	20,772	33,823	4,416																									
Total	59,011 tCO₂																												
Findings	NA																												
Conclusion	CC IPL confirms that baseline emissions have been appropriately calculated and are consistent with on-site assessment, the applied methodology and registered PDD /02/.																												

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

Means of verification	The calculation algorithm in the methodology directly calculates emission reductions hence this is not applicable
Findings	CAR02 was raised and has been closed successfully
Conclusion	CC IPL confirms that project emissions have been appropriately calculated and are consistent with on-site assessment, the applied methodology /04/ and registered PDD/03/.

E.8.3. Calculation of leakage GHG emissions

Means of verification	As per paragraph 56 of the applied methodology/04/, no leakage emissions are considered.
Findings	NA
Conclusion	CC IPL confirms that no leakage emissions are accounted in the estimation of emission reduction as per the applied methodology.

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

Means of verification	<p>Emission Reductions: The emission reductions in this monitoring period are: $ER_y = BE_y - PE_y$ 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};</p> <p>As explained in section E.8.1 above, the resulting Baseline emissions (BE_y) for the monitoring period is 67,294 tCO₂. Similarly, as explained in section E.8.2 and</p>
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	section E.8.3 project emission is already accounted while calculating baseline emissions and leakage emissions are accounted as 0 with baseline emissions and net ER to be 59,011 tCO ₂ e
Findings	CAR 01 was raised and has been closed successfully
Conclusion	The data presented in the monitoring report /01/ and emission reduction worksheet /03/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidence were presented and verified by CCIPL for the reported emission reductions as listed above.

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

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report revision 03 of 12/07/2023 /01/ is equivalent to 59,011 tCO ₂ e as against estimated 67,294 tCO ₂ e.
Findings	N/A
Conclusion	The emission reduction calculations provided in the spreadsheet /03/ have been verified to be correct and in line with the registered PDD /02

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

Means of verification	The actual emission reductions are less than estimated emission reductions during the monitoring period.
Findings	N/A
Conclusion	N/A

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

Means of verification	<table border="1"> <tr> <th>GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012</th> <th>GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards</th> </tr> <tr> <td>NA</td> <td>59,011 tCO₂e</td> </tr> </table>		GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards	NA	59,011 tCO ₂ e			
	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards							
	NA	59,011 tCO ₂ e							
	Year-wise break-up of emission reductions:								
<table border="1"> <thead> <tr> <th>Year</th> <th>Emission Reductions (tCO₂e)</th> </tr> </thead> <tbody> <tr> <td>01/05/2021 – 31/12/2021</td> <td>20,772</td> </tr> <tr> <td>01/01/2022 – 31/12/2022</td> <td>33,823</td> </tr> <tr> <td>01/01/2023 – 28/02/2023</td> <td>4,416</td> </tr> </tbody> </table>		Year	Emission Reductions (tCO ₂ e)	01/05/2021 – 31/12/2021	20,772	01/01/2022 – 31/12/2022	33,823	01/01/2023 – 28/02/2023	4,416
Year	Emission Reductions (tCO ₂ e)								
01/05/2021 – 31/12/2021	20,772								
01/01/2022 – 31/12/2022	33,823								
01/01/2023 – 28/02/2023	4,416								
Findings	--								
Conclusion	The emission reduction calculations provided in the spreadsheet /03/ have been verified to be correct and in line with the registered PDD /02/, also the values are consistently reported in the MR for this monitoring period. /01/								

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

Means of verification	<table border="1"> <tr> <th>Data Variable</th> <th>Source of Data</th> <th>Reported value for the project period</th> </tr> <tr> <td>Employees' monthly wages</td> <td>Job Contracts</td> <td>--</td> </tr> </table>			Data Variable	Source of Data	Reported value for the project period	Employees' monthly wages	Job Contracts	--
	Data Variable	Source of Data	Reported value for the project period						
	Employees' monthly wages	Job Contracts	--						
	Assessment								
	The VVB team has assessed Job Contracts /14/ 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.								
<table border="1"> <tr> <th>Data Variable</th> <th>Source of Data</th> <th>Reported value for the project period</th> </tr> </table>			Data Variable	Source of Data	Reported value for the project period				
Data Variable	Source of Data	Reported value for the project period							

	No of Fatal & Non-fatal injuries	Health & Safety issues records	During the site visit interviews it was confirmed that no accidents happened in the concerned MP
	Assessment		
	VVB team interview the PP and employees during the site visit. It was noted that the no fatal or non-fatal injuries happened during the concerned MP.		
Findings	-		
Conclusion	VVB has verified SDG08 through the job contracts/14/ and on-site interviews, that values have been mentioned in the MR consistently.		

E.10. Global stakeholder consultation

Means of verification	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

SECTION F. Internal quality control

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

SECTION G. Verification opinion

Carbon Check (India) Private Ltd. (CCIPL) has performed the 2nd periodic verification of the GS Project Activity “BMT Solar Farm” in India having GS reference number GS 7526. The verification team assigned by the VVB concludes that the project activity as described in the registered PDD (version 06; dated 11/02/2020) /02/ and the monitoring report (version 03 dated 12/07/2023) /01/, meets all relevant GS4GG requirements for project activity and UNFCCC requirements /05/. The verification has been conducted in-line with the GS4GG requirements and requirements of VVS for CDM project activities (version 03.0) /08/.

Verification methodology and process:

The verification team confirms the contractual relationship signed on 16/05/2023 between the VVB, Carbon Check (India) Private Ltd. and Project Participants – BMT Renewable Energy JSC./13/ The team assigned to the verification meets the CCIPL’s internal procedures including the UNFCCC requirements for the team composition and competence. The verification team has conducted thorough review as per GS4GG, UNFCCC and CCIPL’s procedures and requirements. The verification has been performed as per the requirements described in the GS4GG requirements /05/ and constitutes the review and completion of the following steps:

- Reviewing the registered PDD (version 06; dated 11/02/2020) /02/;
- Receipt of the MR (version 01 dated 30/04/2023) /01/;
- Desk review of the MR /01/ and other relevant documents;
- Review of the applied monitoring methodology (ACM0002, version 19) /04/;
- Review of any CMP and EB decisions, clarifications and guidance;
- On-site assessment (16/05/2023);
- Resolution of CARs and CLs raised during verification;
- Issuance of Verification Report

The project activity was correctly implemented according to the selected monitoring methodology and registered PDD /02/. Through document review and on-site visit assessment, the verification team confirms that the project activity has resulted in 59,011 tCO₂e emission reductions during this second monitoring period.

The break-up of emission reduction as verified during the course of verification are as below:

Vintage	Emission Reductions (tCO ₂ e)
---------	--

01/05/2021 – 31/12/2021	20,772
01/01/2022 – 31/12/2022	33,823
01/01/2023 – 28/02/2023	4,416

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

SECTION H. Certification statement

It is CCIPL's opinion that the GHG emission reductions stated in the 2nd Monitoring period's monitoring report, version 03 dated 12/07/2023 for project activity, **01/** "BMT Solar Farm" for period 01/05/2021 to 28/02/2023 (Inclusive of both the dates) are fairly stated. The GHG emission reductions were calculated correctly based on the approved monitoring methodology, ACM0002, version 19/ **04/** Hence, CCIPL able to certify that the emission reductions from the project during the monitoring period 01/05/2021 to 28/02/2023 (Inclusive of both the dates) amount to 59,011 tCO_{2e}.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Limited
CDM	Clean Development Mechanism
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon dioxide equivalent
PP	Coordinating and Managing Entity
CMP	Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol
VVB	Designated Operational Entity
EB	Executive Board
ER	Emission Reductions
EVN	Vietnam Electricity Corporation
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS	Gold Standard
GS4GG	Gold Standard for Global Goals
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LSC	Local Stakeholder Consultation
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
MWH	Mega Watt-Hour
PDD	Project Design Document
PE	Project Emissions
PP(s)	Project Participant
SDG	Sustainability Development Goals
SMP	Sustainability Monitoring Plan
SS(s)	Sectoral Scopes
TCO ₂ e	Tonnes Carbon Dioxide Equivalent
UNFCCC	United Nations Framework Convention on Climate Change
VER	Voluntary Emission Reductions
VVB	Validation and Verification Body
VVS	Validation and verification standard

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Limited

Certificate of Competency

Ms. Aparna Choudhary

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

for the following functions and requirements:

- | | | | |
|---|--|---|--|
| <input checked="" type="checkbox"/> Validator | <input checked="" type="checkbox"/> Verifier | <input checked="" type="checkbox"/> Team Leader | <input checked="" type="checkbox"/> Technical Expert |
| <input type="checkbox"/> Technical Reviewer | <input type="checkbox"/> Health Expert | <input type="checkbox"/> Gender Expert | <input type="checkbox"/> Plastic Waste Expert |
| <input checked="" type="checkbox"/> SDG+ | <input checked="" type="checkbox"/> Social no-harm(S+) | <input checked="" type="checkbox"/> Environment no-harm(E+) | <input type="checkbox"/> CCB Expert |
| <input type="checkbox"/> Financial Expert | <input checked="" type="checkbox"/> Local Expert for India | | |

in the following Technical Areas:

- | | | | | |
|--|--|----------------------------------|---|---|
| <input checked="" type="checkbox"/> TA 1.1 | <input checked="" type="checkbox"/> TA 1.2 | <input type="checkbox"/> TA 2.1 | <input checked="" type="checkbox"/> TA 3.1 | <input type="checkbox"/> TA 4.1 |
| <input type="checkbox"/> TA 4. n | <input type="checkbox"/> TA 5.1 | <input type="checkbox"/> TA 5.2 | <input type="checkbox"/> TA 7.1 | <input type="checkbox"/> TA 8.1 |
| <input type="checkbox"/> TA 9.1 | <input type="checkbox"/> TA 9.2 | <input type="checkbox"/> TA 10.1 | <input checked="" type="checkbox"/> TA 13.1 | <input checked="" type="checkbox"/> TA 13.2 |
| <input type="checkbox"/> TA 14.1 | <input type="checkbox"/> TA 15.1 | | | |

Issue Date

03rd May 2023

Expiry Date

04th May 2024

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



Carbon Check (India) Private Limited

Certificate of Competency

Ms. Jaya Rajput

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

for the following functions and requirements:

- | | | | |
|---|--|--|--|
| <input checked="" type="checkbox"/> Validator | <input checked="" type="checkbox"/> Verifier | <input type="checkbox"/> Team Leader | <input checked="" type="checkbox"/> Technical Expert |
| <input type="checkbox"/> Technical Reviewer | <input type="checkbox"/> Health Expert | <input type="checkbox"/> Gender Expert | <input type="checkbox"/> Plastic Waste Expert |
| <input type="checkbox"/> SDG+ | <input type="checkbox"/> Social no-harm(S+) | <input type="checkbox"/> Environment no-harm(E+) | <input type="checkbox"/> CCB Expert |
| <input type="checkbox"/> Financial Expert | <input checked="" type="checkbox"/> Local Expert for India | | |

in the following Technical Areas:

- | | | | | |
|----------------------------------|--|----------------------------------|--|----------------------------------|
| <input type="checkbox"/> TA 1.1 | <input checked="" type="checkbox"/> TA 1.2 | <input type="checkbox"/> TA 2.1 | <input checked="" type="checkbox"/> TA 3.1 | <input type="checkbox"/> TA 4.1 |
| <input type="checkbox"/> TA 4. n | <input type="checkbox"/> TA 5.1 | <input type="checkbox"/> TA 5.2 | <input type="checkbox"/> TA 7.1 | <input type="checkbox"/> TA 8.1 |
| <input type="checkbox"/> TA 9.1 | <input type="checkbox"/> TA 9.2 | <input type="checkbox"/> TA 10.1 | <input type="checkbox"/> TA 13.1 | <input type="checkbox"/> TA 13.2 |
| <input type="checkbox"/> TA 14.1 | <input type="checkbox"/> TA 15.1 | | | |

Issue Date

31st March 2023

Expiry Date

30th March 2024

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



Carbon Check (India) Private Limited

Certificate of Competency

Nguyen Hong Ngoc Trang

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

for the following functions and requirements:

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

in the following Technical Areas:

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

Issue Date
03rd May 2023

Expiry Date
02nd May 2024

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



Carbon Check (India) Private Limited

Certificate of Competency

Mr. Shivaji Chakraborty

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

for the following functions and requirements:

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

in the following Technical Areas:

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

Issue Date
1st January 2023

Expiry Date
31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
01	BMT	Monitoring Report	Version 01, dated 30/04/2023 Version 02, dated 05/06/2023 Version 03, dated 12/03/2023	PP
02	BMT	Registered PDD	Version 06, dated 11/02/2020	PP
03	BMT	Emission Reduction spreadsheet corresponding to /01/	Version 01, dated 30/04/2023	PP
04	UNFCCC	Applied Methodology - - ACM0002	Version 19.0	Publicly Available
05	Gold Standard	Gold Standard for the Global Goals Principles & Requirements 2- GS4GG template Monitoring Report	Version 1.2 of October 2019 Version 1.1 14/10/2020	Publicly Available
06	Bureau Veritas India Pvt. Ltd.	Validation Report	Version 01.1, dated 14/08/2021	PP
07	BMT	Calibration Certificates BMT Solar farm		PP
08	UNFCCC	CDM validation and verification standard	Version 03	Publicly Available
09	TUV	1 st Monitoring period verification report	Version 5.0 dated 21/07/2022	PP
10	BMT	Monthly Power generation and consumption records	01/05/2021 – 28/02/2023	PP
11	BMT	Invoices raised to the Grid Authority (EVN)	01/05/2021 – 28/02/2023	PP
12	BMT	Training Records, attendance sheets	01/05/2021 – 28/02/2023	PP
13	Carbon Check (India) Private Limited	Counter Signed contract between Carbon Check (India) Private Limited and PP (BMT Renewable Energy JSC.	16/05/2023	Carbon Check (India) Private Limited
14	BMT	Job contract (SDG 08)		PP
15	UNFCCC	Guideline - Application of materiality in verifications v02.0	01/04/2015	Publicly Available
16	EVN	Commercial date of operation certificate	21/05/2019	PP
17	Seraphim	PV module technical specification	26/12/2018	PP

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

Table 1. Remaining FAR from validation and/or previous

FAR ID	01	Section no.		Date: 05/05/2023
Description of FAR				
Remote site visit shall be resumed by VVB when Covid-19 situation eases				
Project participant response				Date: 05/05/2023
<i>COVID-19 situation has been eased in Vietnam since Q1 2022 and thereby on-site visit is planned on 17th May 2023.</i>				
Documentation provided by project participant				
VVB assessment				Date: 26/06/2023
On site audit was performed by CCIPL for GS 7551 on 17/05/2023. FAR 01 is closed.				

FAR ID	02	Section no.	E.2	Date: 05/05/2023
Description of FAR				
Local residents shall be interviewed regarding grievance mechanism and project impact by VVB, when resuming on-site visit.				
Project participant response				Date: 05/05/2023
<i>VVB has planned to interview the local residents during the on-site visit for the grievance mechanism.</i>				
Documentation provided by project participant				
VVB assessment				Date: 26/06/2023
CCIPL interviewed local residents for the second Monitoring period for GS 7551 on 17/05/2023 and received no negative feedback. FAR 02 is closed.				

FAR ID	03	Section no.	E.2	Date: 05/05/2023
Description of FAR				
During next MP, domestic waste disposal shall be monitored and verified by VVB.				
Project participant response				Date: 05/05/2023
<i>The domestic waste generated at the site is very minimum. The wastes collected through bins are disposed periodically through waste collectors</i>				
Documentation provided by project participant				

It is very clear that the electricity tariff and electricity generation are not changed more than 16% from the registered value in the below table:

Year	Electricity Generation (MWh)			Electricity Tariff (USD/kWh)		
	PDD Value	Actual Value	Variance (%)	PDD Value	Actual Value	Variance (%)
Jun – Dec 2021	44,824	33,550	↓ 25%	0.0935	0.0935	0%
Jan – Dec 2022	76,842	59,939	↓ 21%	0.0935	0.0935	0%
Jan – Feb 2023	12,807	7,321	↓ 42%	0.0935	0.0935	0%

VVB assessment**Date:** 26/06/2023

VVB team has cross-checked the tariff value with the invoices raised by EVN and has concluded that there is no change in the electricity tariff with registered PDD.

Also, Electricity generation is less than 25%, 21% and 42% less than registered PDD values for the years 2021, 2022, & 2023 respectively.

Table 2. CL from this verification

CL ID	01	Section no.	Cover page	Date:	02/06/2023
Description of CL					
As per the registered PDD, the start date of crediting period 01 is 01/06/2019, while in the MR version 01 section A.4, the start date for CP01 is mentioned as 02/06/2023. PP is requested to clarify this discrepancy.					
Project participant response					Date:
The first verification was conducted remotely due to pandemic and thereby the monitoring period limited to less than 2 years. Hence, the start date of crediting period was changed from 01/05/2019 to 02/05/2021 for the first verification.					
Documentation provided by project participant					
VVB assessment					Date: 26/06/2023
Justification provided by the PP has been found appropriate with VVB. CL 02 is closed.					

Table 2. CAR from this verification

CAR ID	01	Section no.	E.8.2	Date:	02/06/2023
Description of CAR					
PP is requested to address the following discrepancies in consistency between MR and registered PDD –					
<ol style="list-style-type: none"> In table 01, the SDG impact names are not the same as those mentioned in registered PDD. Moreover, PP is not addressing all parameters such as number of trainings, number of fatal injuries and accidents. The model's name of the PV Modules in the MR version 01 is, "SRP-340-6MA-HV" while in the registered PDD the name of PV module is "SRP-340-6MA-HV". In section E.2 PP has considered project emissions also, however as per registered PDD and para 34 of applied methodology, PE are to be considered 0. 					
PP is requested to address these comments mentioned above and bring consistency among MR and PDD.					
Project participant response					Date: 05/05/2023

1. *SDG impact names are amended in the revised MR version 02 dated 05/06/2023. The parameters are addressed under section D.2*
2. *It is typo error. Amended in the revised MR as per the certified PDD.*
3. *It has been amended in the revised MR*

Documentation provided by project participant

VVB assessment	Date: 26/06/2023
<ol style="list-style-type: none"> 1. SDG impact names has been revised in the MR v02 and have made it consistent with the registered PDD. CAR01-01 is closed. 2. PP has provided the COD certificate, which confirms the commercial date of operation of plant as 25/05/2019, thus being consistent with the PDD. CAR01-02 is closed. 3. The actual meter number is 137, it has been confirmed from the previous monitoring reports, and there is indeed a typo error in the registered PDD, which will be amended in CP02. CAR01-03 is closed. 	

CAR ID	02	Section no.	E	Date: 02/06/2023
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Description of CAR

In line with the MR template v1.1 template guide, PP is requested to address the following findings:

1. *In table 1 & 2 of the MR, PP is requested to specify the ER amount claimed as GS VER, not only tCO2e.*
2. *In section A.2 of MR version 01, PP is requested to add a map along with the project's physical address.*
3. *In sections E.1 and E.2 of the MR version 01, PP is requested to, provide sample calculations for all formulae used to calculate/estimate baseline values (SDG 13 - emissions or net baseline removals), applying actual values under each SDG. Moreover, clearly reference the spreadsheets used (including sheet names as necessary) and supply them as supporting evidence to the monitoring report.*

Project participant response	Date: 05/05/2023
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1. *GS VER is included in both tables of the revised MR*
2. *Map incorporated in the revised MR*
3. *The formula and the calculation are clearly mentioned in the revised MR as well as the revised ER spreadsheet for the review and justification.*

Documentation provided by project participant

*Revised ER spreadsheet
Revised MR (Version 2)*

VVB assessment	Date: 26/06/2023
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1. PP has revised the ERs as GS VERs also, in line with the GS MR template guidelines. CAR02-01 is closed.
2. PP has added the map of project's location, in line with the GS MR template guidelines. CAR02-02 is closed.
3. PP has provided sample calculations in section E.1 & E.2 of MR v02 in line with the GS MR template guidelines. CAR02-03 is closed.

CAR ID	03	Section no.	E.9	Date: 02/06/2023
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Description of CAR

PP is requested to provide the following documents for the VVB's assessment –

1. *Commissioning Certificates*
2. *Manufacturer's specifications of PV modules.*
3. *Regulation for calibration of energy meters*
4. *Health and Safety issue records (SDG 8.5.1 No of Fatal & Non-fatal injuries)*
5. *Job contracts/Pay Slip/payroll records (SDG 8.5.1 Job contracts (or) Pay slip (or) Payroll records)*

Project participant response	Date: 05/05/2023
-------------------------------------	-------------------------

<ol style="list-style-type: none"> 1. <i>Enclosed</i> 2. <i>Enclosed</i> 3. <i>Regulations are mentioned in the calibration certificates</i> 4. <i>Since no fatalities/injuries occurred at site, no records are created.</i> 5. <i>Enclosed</i> 		
Documentation provided by project participant		
<ol style="list-style-type: none"> 1. <i>COD certificate</i> 2. <i>Supplier data sheets</i> 3. <i>Calibration certificates</i> 4. <i>Employee pay slip</i> 		
VVB assessment		
<table border="1" style="width: 100%;"> <tr> <td style="width: 70%;"></td> <td style="width: 30%;">Date: 26/06/2023</td> </tr> </table> <p>PP has provided COD certificate, PV module specifications, calibration certificates and pay slips. All the submitted documents have been found consistent with the PDD. CAR 03 is closed.</p>		Date: 26/06/2023
	Date: 26/06/2023	

Table 3. FAR from this verification

No FAR raised for this verification period.

FAR ID	xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
VVB assessment				Date: DD/MM/YYYY